
**Energy performance of buildings —
Schedule and condition of building,
zone and space usage for energy
calculation —**

**Part 1:
Non-residential buildings**

*Performance énergétique des bâtiments — Plan et conditions
d'utilisation des espaces, zones et bâtiments pour le calcul
d'énergie —*

Partie 1: Bâtiments non résidentiels





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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

The committee responsible for this document is ISO/TC 163, *Thermal Performance and energy use in the built environment*.

Introduction

There is a strong need to improve the environment to make the evaluation of energy performance of buildings more reliable and practical, so that energy efficiency of buildings is improved by referring to the evaluation results. To realize such environment, one important standard on how to prescribe the ways of using buildings has been missed, even though many assumptions on the building usage have appeared in standards relevant to the energy calculation.

This document prescribes the indispensable information on the formats to express the usage of building, zone and space in energy calculation for non-residential buildings.

Energy performance of buildings — Schedule and condition of building, zone and space usage for energy calculation —

Part 1:

Non-residential buildings

1 Scope

This document specifies the formats to present schedule and condition of building, zone and space usage, which is to be referred to as input data of energy calculations for non-residential buildings.

The schedule and condition include schedules of occupancy, operation of technical building systems, ventilation rate, hot water usage and internal heat gains due to occupancy, lighting and equipment.

This document also gives categories of building, zone and space according to differentiating schedule and condition.

Depending on necessary minuteness of the energy calculation, different levels of schedule and condition from the view point of time and space averaging are specified.

The values and categories for the schedule and condition are given in annexes for more information for the application when the users of this document do not have detailed information on the values and categories for the schedule and condition.

The schedule and condition in this document is basically different from assumptions in order to determine the size of technical building systems in the process of design, where possible largest values are to be assumed. Instead, most usual and average values, which are assumed for the building energy calculation, are dealt with in this document.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

3.1 Space

3.1.1 space

part of a room, a room or group of adjacent rooms with assumed uniform properties for all considered types of *zones* (3.1.2)

3.1.2

zone

part of a *building* (3.1.3) consisting of (part of) one or more spaces with assumed uniform properties related to a specific service or service component, or (in absence of a service) assumed uniform indoor environmental conditions

3.1.3

building

construction as a whole, including its envelope and all *technical building systems* (3.3.5), where energy is used to condition the indoor thermal environment and to provide domestic hot water, lighting according to visual tasks and other services related to the use of the building

3.1.4

thermally conditioned space

thermally conditioned zone

heated and/or cooled *space* (3.1.1) or *zone* (3.1.2)

3.1.5

thermally unconditioned space

thermally unconditioned zone

space (3.1.1) or *zone* (3.1.2) that is not heated nor cooled

3.2 Schedule

3.2.1

schedule

information on condition(s) of usage of *building* (3.1.3), *zone* (3.1.2) or *space* (3.1.1) throughout a cycle of period, such as day, week, month, season and year

3.2.2

daily schedule

conditions (3.3.1) of *occupancy* (3.3.2), service system operations, requirement for the functions of the service systems and internal heat gains in each time of a day

3.2.3

daily schedule with hourly conditions

set of hourly *conditions* (3.3.1) of *occupancy* (3.3.2), service system operations, requirement for the functions of the service systems and internal heat gains in a day

3.2.4

set of daily schedules

complete set of daily schedules representing usage of a category of *building* (3.1.3), *zone* (3.1.2) or *space* (3.1.1) in one year

3.2.5

daily operating hours

hours when service system is operated or the length of the hours

3.2.6

annual operating hours

total length of hours in the *standard year* (3.2.15) when *technical building system* (3.3.5) is operated

3.2.7**annual schedule**

allocation of *daily schedule(s)* (3.2.2) for one year

Note 1 to entry: Division of the year can be selected from 365 days, 53 weeks, 12 months, seasons or no division [a *set of daily schedules* (3.2.4) is uniformly applied throughout the year].

3.2.8**seasonal schedule**

allocation of *daily schedule(s)* (3.2.2) to each season of the year

3.2.9**monthly schedule**

allocation of *daily schedule(s)* (3.2.2) to each month of the year

3.2.10**weekly schedule**

allocation of *daily schedule(s)* (3.2.2) to each week of the year

3.2.11**whole set of annual schedules**

complete set of *annual schedules* (3.2.7) representing usage of all types of *building* (3.1.3), *zone* (3.1.2) and *space* (3.1.1), as objects of *energy calculation* (3.3.20)

3.2.12**whole set of seasonal schedules**

complete set of *seasonal schedules* (3.2.8) representing usage of all types of *building* (3.1.3), *zone* (3.1.2) and *space* (3.1.1), as objects of *energy calculation* (3.3.20)

3.2.13**whole set of monthly schedules**

complete set of *monthly schedules* (3.2.9) representing usage of all types of *building* (3.1.3), *zone* (3.1.2) and *space* (3.1.1), as objects of *energy calculation* (3.3.20)

3.2.14**number of days in one year**

total number of days, which shall be 365

3.2.15**standard year**

selected year, of which number of day has to be 365 and arrangement of weekdays, weekends and holidays are referred in weekly, monthly, seasonal and *annual schedules* (3.2.7)

3.3 Parameters for conditions of building, zone and space usage**3.3.1****condition**

status of *occupancy* (3.3.2), operation of service systems, requirement for the functions of the *technical building systems* (3.3.5) and internal heat gains

3.3.2**occupancy**

presence of users in *building* (3.1.3), *zone* (3.1.2) or *space* (3.1.1)

3.3.3

occupancy density

number of present user in *building* (3.1.3), *zone* (3.1.2) or space per unit floor area of the *space* (3.1.1)

Note 1 to entry: Occupancy density is used mainly for the calculations for space heating/cooling and ventilation.

3.3.4

simultaneous usage ratio (of a set of spaces)

ratio of the number of *zones* (3.1.2) or *spaces* (3.1.1), which belong to a group of zones and spaces and are occupied or used at the time, to the total number of zones or spaces in the group

Note 1 to entry: This concept is applied to a group of zones or spaces of the same category, such as a group of guest rooms in hotels, a series of personal office rooms in office buildings, etc.

3.3.5

technical building system

all energy-using or energy-distributing components in a *building* (3.1.3) that are operated to support the occupant or process functions housed therein

Note 1 to entry: These include HVAC, domestic hot water, illumination, transportation, laundering or similar functions.

3.3.6

luminaire

apparatus which distributes, filters or transforms the light transmitted from one or more lamps

Note 1 to entry: Except for the lamps themselves, all the parts necessary for fixing and protecting the lamps and, where necessary, circuit auxiliaries together with the means for connecting them to the electric supply

[SOURCE: CIE S 017/E: 2011, 17–707]

3.3.7

in operation

status of a *technical building system* (3.3.5), in which the technical building system can function to satisfy the requirement for the technical building system, such as the set-point temperature and the *maintained average illuminance* (3.3.9)

Note 1 to entry: When the requirement is satisfied without its functioning, the technical building system stands by.

3.3.8

out of operation

status of a *technical building system* (3.3.5) in which the technical building system cannot function regardless of the relevant requirement or due to inexistence of any requirement for the technical building system

3.3.9

maintained average illuminance

value below which the average illuminance over the specified surface is not allowed to fall, lux

[SOURCE: CIE S 017/E: 2011, 17–750]

3.3.10**height of the working plane**

height of the plane, on which the assumed visual task is done, from the floor

Note 1 to entry: It is expressed in metres (m).

3.3.11**demand control ventilation**

ventilation, of which rate is controlled according to the necessity of the ventilation, such as to the emission rate of target pollutant

3.3.12**energy need for space heating and cooling**

heat to be delivered to or extracted from a conditioned *space* (3.1.1) to maintain the intended temperature and/or humidity conditions during a given period of time

3.3.13**energy use for space heating and cooling**

energy input to the heating and cooling system to satisfy the *energy need for space heating and cooling* (3.3.12)

3.3.14**energy need for ventilation for outdoor air supply**

work by electric motors to convey outdoor air to satisfy ventilation requirement

3.3.15**energy use for ventilation for outdoor air supply**

energy input to the ventilation system to satisfy the *energy need for ventilation for outdoor air supply* (3.3.14)

3.3.16**energy need for domestic hot water**

heat to be delivered to the needed amount of domestic hot water to raise its temperature from the cold network temperature to the prefixed delivery temperature at the delivery point

3.3.17**energy use for domestic hot water**

energy input to the domestic hot water system to satisfy the *energy need for domestic hot water* (3.3.16)

3.3.18**energy use for lighting**

energy consumed by *luminaires* (3.3.6) and lamps

3.3.19**energy use for transportation**

energy consumed by equipment for transportation, such as elevators

3.3.20**energy calculation**

calculation of energy uses for *technical building systems* (3.3.5)

3.4 Descriptions for daily schedule

3.4.1

reference ventilation requirement

most probable estimation of outdoor air supply (in volume flow rate per unit floor area or in air change per hour) to the *space* (3.1.1) or *zone* (3.1.2) in compliance with relevant regulation

3.4.2

reference domestic hot water usage

maximum hourly service hot water usage by users of the *space* (3.1.1) or *zone* (3.1.2) in volume flow rate per person, in volume flow rate per unit floor area or in volume flow rate per bed

Note 1 entry: The volume flow rate is calculated with the assumption on hot water temperature.

3.4.3

total daily usage of domestic hot water

total volume of service hot water usage in one day in volume per person, in volume per unit floor area or in volume per bed

Note 1 entry: The volume flow rate is calculated with the assumption on hot water temperature.

3.4.4

reference occupancy density

maximum hourly *occupancy density* (3.3.3) of the *space* (3.1.1) or *zone* (3.1.2) in person per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), occupancy density at the time can be calculated.

3.4.5

reference heat gain due to person

maximum hourly total (sensitive and latent) heat gain due to person inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), heat gain due to person at the time can be calculated.

3.4.6

reference sensible heat gain due to person

maximum hourly sensible heat gain due to person inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), sensible heat gain due to person at the time can be calculated.

3.4.7

reference latent heat gain due to person

maximum hourly latent heat gain due to person inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), latent heat gain due to person at the time can be calculated.

3.4.8**reference heat gain due to lighting**

maximum hourly sensible heat gain due to lighting inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by hourly ratios, heat gain due to lighting at the time can be calculated.

3.4.9**reference heat gain due to appliances**

maximum hourly total (sensible and latent) heat gain due to appliances inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), heat gain due to appliances at the time can be calculated.

3.4.10**reference sensible heat gain due to appliances**

maximum hourly sensible heat gain due to appliances inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), sensible heat gain due to appliances at the time can be calculated.

3.4.11**reference latent heat gain due to appliances**

maximum hourly latent heat gain due to appliances inside the room or *zone* (3.1.2) in watt per unit floor area

Note 1 to entry: To be multiplied by *hourly ratios* (3.4.12), latent heat gain due to appliances at the time can be calculated.

3.4.12**hourly ratio**

ratio of hourly value of parameters to their reference value

Note 1 to entry: Multiplying hourly ratios by the reference value, hourly values of the parameter can be calculated.

4 Framework of the schedule and condition for building energy calculation**4.1 Indispensable schedules**

The building energy calculations are characterized by the division number of the year, the calculation period or the calculation interval. Each calculation method has its appropriate calculation interval according to characteristics of the target physical phenomenon (for example, unsteadiness) and minuteness of the calculation responding to changes of climatic condition, occupants' behaviour, behaviour of service systems and so on.

Due to the variety of calculation method, there is a variety of form of the schedule and condition of building, zone and space usage. Nevertheless, there is a fundamental unit of form, daily schedule, which shall be included in forms for the schedule and condition. The daily schedule corresponds to the minimum cycle of building, zone and space usage, and also of climatic and solar condition.

Some nations adopt so called "monthly calculation" for space heating and cooling energy needs and uses, taking monthly variation of outdoor temperature and solar irradiance into consideration. One daily schedule for business day and the number of the business days is given to each month for each type of building, zone and space. Monthly means of outdoor air condition (for example, temperature)

and solar irradiance for different orientations and inclinations are given for the calculation. The expression of the daily schedule varies from detailed expression with hourly values to simplified expression such as daily mean values and the like. Additional schedule for closing day can be given in a simplified way such as only with daily mean values.

Similarly, in so called “seasonal calculation”, one daily schedule for business day and the number of the business days for each season are given to each season for each type of building, zone and space, and the calculation is done with seasonal mean values for climatic condition.

For the calculation of more steady phenomena, so called “annual calculation” can work if seasonal change of solar condition is integrated throughout the year and condensed in specific coefficients. Nevertheless, one daily schedule for business day and the number of annual business days are necessary. Additional daily schedule for closing day can be given.

For the calculation of lighting, monthly or yearly calculation is mainly used, but unsteady aspects of lighting still can be dealt with. In the calculation for lighting, when input parameters such as operating hours with and without daylight are prescribed, daily schedule as described in the column (2) of Table 1 and annual schedule by monthly allocation of daily schedules (Table 5) or annual schedule without division of the year (Table 7) should be explicitly given, so that the operating hours for light is well harmonized with those for other technical systems.

Therefore, for each category of building, zone and space, necessary number of daily schedules (e.g. two daily schedules for business day and closing day), and one of annual, seasonal, monthly and weekly schedules shall be given in order that the daily schedules are allocated for the year.

4.2 Daily schedule

The daily schedule shall contain hourly values of condition for one day or shall contain condensed or simplified information on conditions for the day. With some assumptions, the hourly detailed values can be generated from condensed or simplified information and used even for detailed calculation. If necessary, multiple daily schedules representing different daily patterns of usage should be given such as for weekdays, weekends and holidays. The number of daily schedules depends on minuteness of the schedule and condition, as well as on the category of building, zone and space under consideration.

The conditions described in the daily schedule are grouped into the following three categories:

- a) general information on occupancy and usage of building, zone and space;
- b) operation of technical building systems and requirement for their services;
- c) internal heat gains.

The basic structure of daily schedule is shown in Table 1.

Table 1 — Framework of daily schedule for building, zone or space

Parameters and their categories		(1) description by hourly values for 0 h to 24 h	(2) condensed or simplified description
a) General information on occupancy and usage	Occupancy density	Hourly occupancy density	Times of start and end of occupancy or total hours of occupancy, and average occupancy density during usage
	Simultaneous usage ratio of a set of rooms	Hourly simultaneous usage ratio	Mean simultaneous usage ratio during usage
b) Operation of technical building systems and requirement for their building services	Space heating and/or cooling	Hourly status of space heating and/or cooling system (in or out of operation)	Times of start and end of operation, or total hours of operation
		Hourly set-points of room temperature and/or humidity	Set-point temperature and/or humidity during operation, and/or information on set-back operation
	Ventilation for thermally conditioned zone or space	Hourly status of ventilation system (in or out of operation)	Times of start and end of operation, or total hours of operation
		Hourly ventilation requirement	Ventilation requirement during operation
	Lighting	Hourly status of lighting system (in or out of operation)	Times of start and end of operation, or total hours of operation
		Maintained average illuminance and height of working plane	Maintained average illuminance and height of working plane
	Domestic hot water	Hourly status of domestic hot water system	Times of start and end of operation, or total hours of operation
		Hourly service hot water usage	Daily total hot water usage
	Ventilation for thermally unconditioned zone or space	Hourly ventilation requirement	Ventilation requirement
		Set-point of room temperature (upper limit)	Set-point of room temperature (upper limit)
c) Internal heat gains (sensitive and/or latent)	Person (watt per unit floor area)	Hourly heat gains	Times of start and end of occupancy or total hours of occupancy
			Average heat gains during occupancy
	Lighting (watt per unit floor area)	Hourly heat gains	Times of start and end of lighting or total hours of lighting
			Average heat gain during operation
	Appliances (watt per unit floor area)	Hourly heat gains	Times of start and end of use of appliances or total hours of the usage
			Average heat gain during usage

4.2.1 General information on occupancy and usage

The principal parameter for the general information on occupancy and usage is the occupancy density. It can be given hourly in the day if detailed daily schedule is necessary. In such case, as shown in examples of the daily schedules in Annex D, the reference occupancy density and hourly ratios can be used to give hourly occupancy densities.

4.2.2 Operation of technical building systems and requirement for their building services

Daily schedules of operation of technical building systems and of requirement for those (e.g. room temperature and/or humidity, ventilation requirement, lighting requirements) shall be given hourly in the day if detailed daily schedule is necessary. The combination of reference ventilation requirement or reference domestic hot water and hourly ratios can be used to give hourly schedules.

The operational status of technical building systems can be described as “in operation” or “out of operation”. “In operation” is defined as the status in which the technical building system can function to satisfy the requirement for the system. When the requirement is satisfied without its functioning, the technical building system stands by. On the contrary, “out of operation” is defined as the status in which the technical building system cannot function regardless of the relevant requirement. Instead of giving the status hourly, the times of start and end can be given or the total hours of daily operation can be given as condensed or simplified description.

4.2.3 Internal heat gains

Daily schedules of internal heat gains shall be given hourly in the day if detailed daily schedule is necessary. The combination of reference heat gains such as reference heat gain due to person and hourly ratios can be used to give hourly schedules.

4.3 Division of year and daily, weekly, monthly, seasonal and annual allocations of daily schedules

The standard year shall be the year 2015, which has 365 days. Since national holidays and working days for buildings differs in nations and states, annual schedules can be determined on a national basis, even though there is a need for any common annual schedule patterns for research purposes. The annual schedule given in Annex B can be used as such a common annual schedule with daily 365 divisions. The basic structures of the annual schedule are shown in Table 2.

Table 2 — Annual schedules with different divisions of the year

(1) Daily 365 divisions																
The standard year																
1	2	3	4	5	6	7	8	...	358	359	360	361	362	363	364	365
(2) Weekly 53 divisions																
The standard year																
1	2	3	4	...	50	51	52	53								
(3) Monthly 12 divisions																
The standard year																
January	February	March	...	October	November	December										
(4) Seasonal 3 divisions																
The standard year																
Winter	Medium	Summer	Medium	Winter												
(5) No division of the year																
The standard year																
Common set of daily schedules throughout the year																

The annual schedule shall be made by allocating one of daily schedules to each day or a set of daily schedules to each week, month or season. Each week, month and season can contain different daily schedules such as for weekdays and the rest. If there is no need to divide the year, a set of daily schedules shall be allocated to the whole year without division. For example, for an indoor parking garage, a set of daily schedules of ventilation and lighting for each of business day and closing day is specified with numbers of the days as the annual schedule. Structures of the annual schedules by daily, weekly, monthly, seasonal and yearly allocation are prescribed in Table 3, Table 4, Table 5, Table 6 and Table 7, respectively.

**Table 3 — Annual schedule by daily allocation of daily schedules
(daily schedule allocation is exemplified)**

Date	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	...
	January														
	1st Th.	2nd Fr.	3rd Sa.	4th Su.	5th Mo.	6th Tu.	7th We.	8th Th.	9th Fr.	10th Sa.	11th Su.	12th Mo.	13th Tu.	14th We.	...
Daily schedule	<i>c</i>	<i>c</i>	<i>c</i>	<i>c</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>a</i>	<i>b</i>	<i>c</i>	<i>a</i>	<i>a</i>	<i>a</i>	...
The daily schedules <i>a</i> , <i>b</i> and <i>c</i> are allocated to weekdays except for Saturdays and Sundays/holidays, respectively.															

**Table 4 — Annual schedule by weekly allocation of daily schedules
(daily schedule allocation is exemplified)**

Daily schedule \ Week	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	...
	Jan. 1st to 4th	5th to 11th	12th to 18th	19th to 25th	26th to Feb. 1st	2nd to 8th	9th to 15th	16th to 22nd	23rd to Mar. 1st	2nd to 8th	9th to 15th	16th to 22nd	...
<i>a</i>	0	5	4	5	5	5	4	5	5	5	5	5	...
<i>b</i>	0	1	1	1	1	1	1	1	1	1	1	0	...
<i>c</i>	4	1	2	1	1	1	2	1	1	1	1	2	...
Total number of days	4	7	7	7	7	7	7	7	7	7	7	7	...

The daily schedules *a*, *b* and *c* are allocated to weekdays except for Saturdays, Saturdays and Sundays/holidays, respectively.

**Table 5 — Annual schedule by monthly allocation of daily schedules
(daily schedule allocation is exemplified)**

Daily schedule \ Month	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
	<i>a</i>	19	19	22	21	19	22	22	21	19	21	20	19
<i>b</i>	4	4	3	4	4	4	4	5	4	5	4	4	49
<i>c</i>	8	5	6	5	8	4	5	5	7	5	6	8	72
Total number of days	31	28	31	30	31	30	31	31	30	31	30	31	365

The daily schedules *a*, *b* and *c* are allocated to weekdays except for Saturdays, Saturdays and Sundays/holidays, respectively.

**Table 6 — Annual schedule by seasonal allocation of daily schedules
(daily schedule allocation is exemplified)**

Daily schedule \ Season	Winter	Intermediate	Summer	Total
	<i>a</i>	n_{W1}	n_{M1}	n_{S1}
<i>b</i>	n_{W2}	n_{M2}	n_{S2}	$49 (=n_{W2} + n_{M2} + n_{S2})$
<i>c</i>	n_{W3}	n_{M3}	n_{S3}	$72 (=n_{W3} + n_{M3} + n_{S3})$
Total number of days	$n_{W1} + n_{W2} + n_{W3}$	$n_{M1} + n_{M2} + n_{M3}$	$n_{S1} + n_{S2} + n_{S3}$	365

The daily schedules *a*, *b* and *c* are allocated to weekdays except for Saturdays, Saturdays and Sundays/holidays, respectively.

**Table 7 — Annual schedule without division of the year
(daily schedule allocation is exemplified)**

Daily schedule	Total
<i>a</i>	244
<i>b</i>	49
<i>c</i>	72
Total number of days	365
The daily schedules <i>a</i> , <i>b</i> and <i>c</i> are allocated to weekdays except for Saturdays, Saturdays and Sundays/holidays, respectively.	

5 Conditions for energy calculation included in the schedule and condition of building, zone and space usage

5.1 Energy needs and uses

In this document, input parameters for the calculation of the following energy needs and uses are dealt with.

- a) Energy need and use for space heating and cooling.
- b) Energy need and use for ventilation for outdoor air supply for conditioned and unconditioned zone or space.
- c) Energy use for lighting.
- d) Energy need and use for domestic hot water.
- e) Energy use for transportation (i.e. elevators).

5.2 Condition

5.2.1 General information on occupancy and usage

5.2.1.1 Occupancy density

The occupancy density is directly or indirectly related to energy uses of technical building systems, such as of space heating and cooling, ventilation, lighting, domestic hot water and transportation in the building. It also represents unused status of the space by zero occupancy density. Total number of occupants can be calculated by multiplying the occupancy density by the floor area of the space, of which prescription should be dealt with by calculation methods standardized by other standards.

The occupancy density shall be assumed and given by taking the correlation with relevant conditions such as hourly status or hours of space heating and cooling, ventilation, lighting and domestic hot water, as well as with hourly status or hours of internal heat gains.

For lighting, other parameters for occupancy such as the absence factor may be added, but such parameters relevant to the occupancy should be well coordinated without contradiction.

NOTE The occupancy-relevant parameter for lighting is given in ISO 20086.

5.2.1.2 Simultaneous usage ratio of a set of zones or spaces

This parameter is not always necessary, but is useful when there is a group of zones or spaces of the same category and characteristics and the utilization rate of the group is not always full. Demands for technical building systems are to be reduced by the simultaneous usage ratio.

5.2.2 Operation of technical building systems and requirement for their services

5.2.2.1 Space heating and cooling

As operational conditions for space heating and cooling, status of the space heating and/or cooling system (in or out of operation) and indoor environmental set-points (temperature and/or humidity) shall be given.

There can be different indoor environmental set-points for a building, zone and space. They differentiate due to seasons (heating, cooling, intermediate and so on), daily usage (business day, closing day and so on) and set-back operation such as for during night. The condition for the set-point shall be given in a schedule by referring to the table for the set-point patterns, as shown in Table 8. If the set-point pattern can be allocated to any part of the year without calculations, periods shall be determined and be specified in the table for each of set-point patterns. If the set-point patterns depend on climatic condition in each day, week and month, determination of the set-point patterns shall be done as a part of the energy calculation.

Table 8 — Set-point patterns (symbols, values and notes are exemplified)

Symbol of set-point pattern	During normal operation		During set-back operation		Note for set-back operation
	Indoor set-point temperature	Indoor set-point relative humidity	Indoor set-point temperature	Indoor set-point relative humidity	
w1	22 °C	40 %	—	—	—
w2	22 °C	—	—	—	—
s1	26 °C	50 %	—	—	—
m1	24 °C	50 %	—	—	—

5.2.2.2 Ventilation for thermally conditioned zone or space

The ventilation (outdoor air supply) for thermally conditioned zones or spaces has an influence on the energy needs for space heating and cooling, as well as the energy use for mechanical ventilation. Status of the ventilation system (in or out of service) shall be given in the schedule or it shall be assumed to be the same as space heating and/or cooling system operation. As for ventilation rate during the operation, there are two ways how to estimate the amount of outdoor air supply, as follows.

- a) Estimation by regulated ventilation requirement of the building, zone and space, which can be defined as per unit floor area or per occupant. The requirement can also be described by acceptable concentration of target gas. If the requirement per occupant or by the acceptable concentration of the target gas is adopted, capacity of occupants of the zone or space, which has to be equal to or larger than the reference occupancy density, shall be assumed. This way is possible even before fixing detailed specifications of the ventilation system of the space.
- b) Estimation by designed air flow rate of the target building, zone and space, which is to be confirmed by design calculation based on the specifications of adopted ventilation components. The design value of the ventilation rate can be used, if the value shall be confirmed later in more detailed design stage of the building and technical building system.

In the energy calculation, when demand control ventilation or any other techniques to control ventilation rate is considered, the above-mentioned estimated amount of outdoor air can be adjusted by taking relevant parameters (e.g. schedule of occupancy density, outdoor temperature and/or humidity) into consideration.

In the calculation of energy use of the ventilation system, electric power of the designed system is used, or assumptions on the efficiency of the system, such as a specific fan power, are used with the ventilation rate.

5.2.2.3 Lighting

The status of the lighting system (in or out of operation) shall be given in the schedule. The status shall be coordinated with the occupancy of the zone or space, but they are not necessarily the same.

If the effect of dimming control for daylight utilization or any other lighting control methods are considered, the operation and electric power is adjusted by taking the specification of the control system and space configuration into consideration.

The energy use for lighting can be estimated by using the duration of the operation and the electric power for luminaires and lamps, which can be determined by the following ways.

- a) In the simplified utilization factor method, the installed lighting power density can be calculated by using maintained average illuminance, luminaire and lamp performance, and utilization factor as a function of the luminaire, space reflectance and room index. More detailed method can also be used for the calculation of the installed lighting power.
- b) Total assumed electric power of designed luminaires and lamps for the zone or space, or the target installed electric power for lighting.

NOTE Calculation methods for lighting are standardized in relevant standards such as ISO 20086.

When internal heat gain due to lighting is generated interactively by using results of energy use calculation for lighting, more realistic and accurate estimation of the internal heat gain due to lighting become possible. Such interactive calculation method should be applied in case the visual task and lighting schemes in spaces and zones are known.

5.2.2.4 Domestic hot water

The amount of service hot water usage shall be given as hourly volume or as total volume used during the specified period. In addition, assumed hot water temperature and type of faucet or shower nozzle shall be specified for the calculation of energy need. The saving of service hot water usage by energy-saving faucets or shower nozzles shall be evaluated by comparing with the performance of the assumed type of those in the schedule and condition. Supplied water temperature shall be given in the calculation methods.

5.2.2.5 Ventilation for thermally unconditioned zone or space

As thermally unconditioned zones or spaces, indoor parking garage, machine room, electric room, etc. are dealt with. The ventilation (outdoor air supply) for the thermally unconditioned zone or space has an influence on the energy use for mechanical ventilation. Status of ventilation system (in or out of service) shall be given in the schedule. As for ventilation rate in the operation, there are two ways in order to estimate the amount of outdoor air supply, as follows.

- a) Estimation by regulated ventilation requirement of the unconditioned zone or space, which can be defined as per unit floor area or air change rate. The requirement can also be described by allowable concentration of target gas such as CO for indoor parking garage or allowable temperature for machine and electric room with assumptions on internal heat gain in those spaces. This way is possible even before fixing detailed specifications of the ventilation system of the space,

but the schedule of ventilation target such as pollutant gas by cars and heat from contained equipment is necessary.

- b) Estimation by designed air flow rate of the target zone and space, which is to be confirmed by design calculation based on the specifications of adopted ventilation components. The design value of the ventilation rate can be used, if the value shall be confirmed later in more detailed design stage of the building and technical building system.

In the energy calculation, when demand control ventilation or any other techniques to control ventilation rate is considered, the above-mentioned estimated amount of outdoor air can be adjusted by taking relevant parameters (e.g. schedule of pollutant source, outdoor temperature) into consideration.

In the calculation of energy use of the ventilation system, electric power of the designed system is used, or assumptions on the efficiency of the system, such as a specific fan power, are used with the ventilation rate.

5.2.3 Internal heat gains

Internal heat gains due to persons, lighting and other appliances used in building, zone and space also affect energy needs for space heating and cooling. The schedule of the heat gains shall be given.

5.2.3.1 Person

The amount of internal heat gain due to person per unit floor area is the product of heat dissipation per person and occupancy density.

5.2.3.1.1 Heat gains per person

Heat gains per person (occupant) in watt per person depends on his/her activity level and other physiological conditions. Therefore, they shall be given, taking human activity in the zone or space into consideration. Values for the heat dissipation can be found in references such as Reference [19]. The heat dissipation from human body consists of sensitive and latent heats, but it is possible to assume only the sensitive heat, such as when calculating only energy need for sensitive heat.

5.2.3.1.2 Occupancy density

The occupancy density is described as general information in 5.2.1.1.

5.2.3.2 Lighting

For the energy calculation of lighting, conditions other than the status of the lighting system (in or out of operation) and the lighting requirement (e.g. maintained average illuminance on height of working plane and further criteria according to ISO 8995-1) can be determined by the lighting design and shall be used in the calculation methods as input data for target building, zone and space. The result of such energy calculation of lighting can be used as the basis of heat gain due to lighting.

When rough estimation on the heat gain due to lighting is needed before the lighting design and energy calculation of lighting, the target installed power for lighting can be used.

5.2.3.3 Appliances

The appliances include electric appliances and other machines or instruments dissipating heat, which can consist of sensible and latent heats. The electric appliances, such as computer, television, copy machine, refrigerator and special decorative illumination irrelevant with the lighting requirement for visual tasks, use energy and shall be taken into consideration when determining internal heat gain due to appliances.

6 Category of building, zone and space

6.1 General

Buildings are characterized basically by their principal function. However, there are not only complex buildings with different principal functions, but also buildings naturally having mutually related plural principal functions, such as hospitals containing functions for outpatient consultation and inpatient healthcare. Even among buildings of the same category, there is possibly considerable difference in factors influencing energy use due to composition of multiple functions. Therefore, from the view point of energy calculation, the schedule and condition shall be prescribed not by building category, but by the category of zone and space. Another reason why the zone and space shall be focused is that zones and spaces, which have secondary functions to support the principal ones, still have impacts on overall energy use of the building.

6.2 Category of building

This document is focused upon the categories of non-residential building as shown in Table 9. However, the categorization of the building for the energy calculation may be dependent on existing categorizations of any national building regulations and should not be defined exclusively in an International Standard.

The definitions for the building categories, which are given in ISO/TR 16344 and coordinated with Table 9, should be referred.

Table 9 — Categories of non-residential buildings for schedule and condition of building, zone and space usage for energy calculation

Category of building	Representing zone(s) or space(s) for principal function(s) of building
1 Office	Office room, office room with heavy electrical load
2 Hotel	Guest room, banquet hall, conference hall
3 Hospital	Ward, consultation room
4 Shop	Large store, Small store, supermarket
5 Educational	Class room of junior and junior high school, class room of high school, lecture room of university, study room, experimental laboratory, lecture hall and gymnasium
6 Restaurant	Dining room of restaurant, guest room of coffee house, bar, kitchen
7 Library	Reading room, book stack
8 Museum	Exhibition room, storeroom
9 Sport and amusement	Gymnasium, spectator stand
10 Theatre	Auditorium, stage
11 Religious	Assembly room
12 Warehouse	Storage room

6.3 Category of space or zone

Categories of space or zone are provided in Annex C.

Minuteness of categories of space and zone should be determined by taking the characteristics of methods for energy calculation and their procedures. If fewer categories of space and zone are used for the calculation method, any rule shall be given on which type of space and zone and its schedule and

condition should be applied to spaces and zones of the object building for the energy calculation. The rule shall be developed by taking all energy uses to be calculated into consideration. Some energy uses may need minuteness of types, while other energy uses may not need such minuteness.

Schedule and condition for types of space or zone are not only used directly as input parameters but also as the basis to draw more simplified input parameters for energy calculation. When merging adjacent spaces of different types according to the rule of an energy calculation method, their similarity and appropriateness to merge shall be checked by comparing their schedules and conditions.

The more types of space or zone are assumed, the more minute input parameters can be supplied. Since the minuteness of the energy calculation methods differs nation to nation, number of types of space or zone can be determined by taking the characteristic of the calculation method into calculation.

Annex A (informative)

Format of daily schedule

Figure A.1 is an example of format of daily schedule, which contains three different daily schedules (*a*, *b* and *c*). The actual examples for different spaces are given in Annex C. In Figure A.1, explanations of parameters are given around the format.

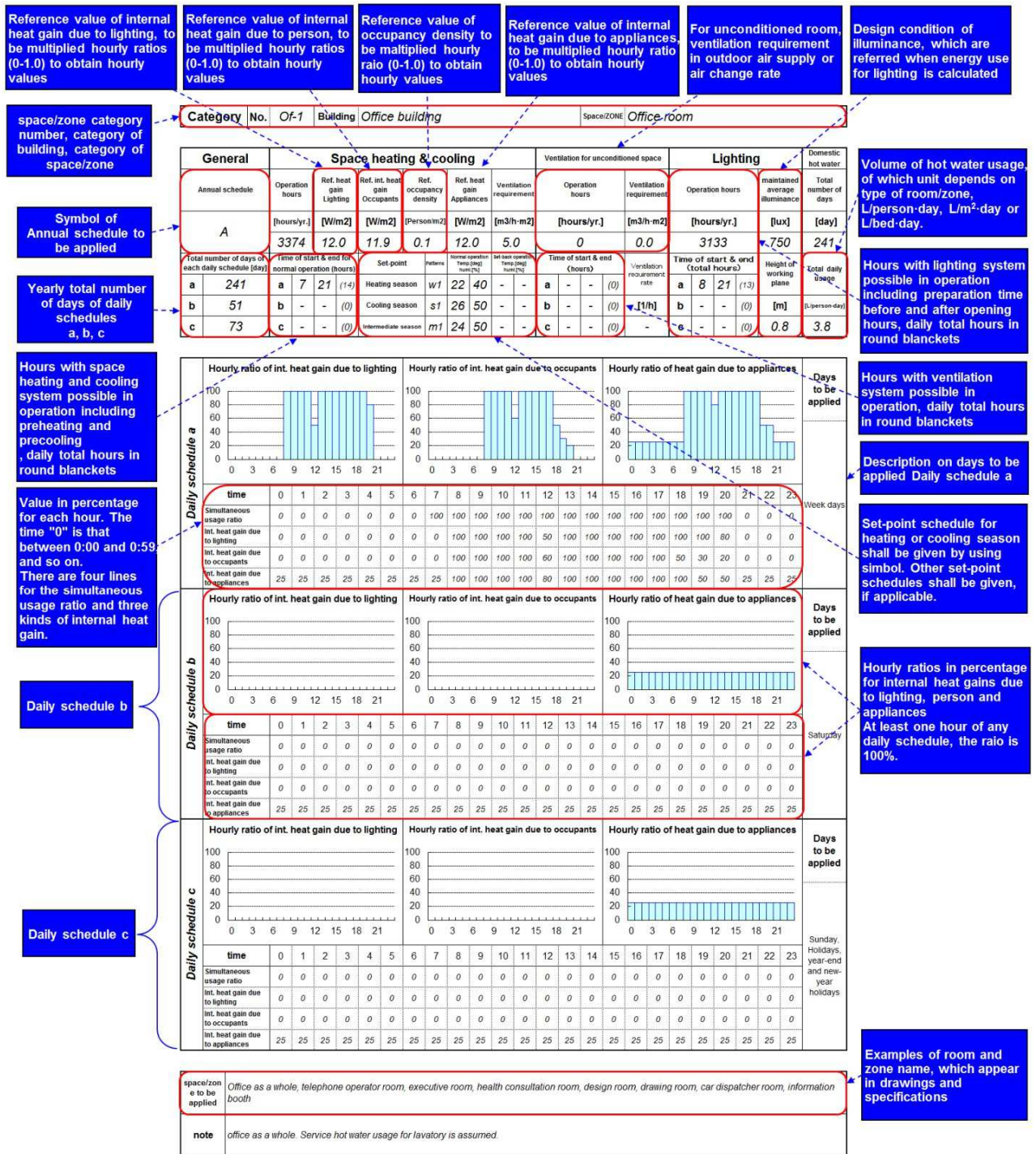


Figure A.1 — Format of a set of daily schedule for each category of space and zone

Annex B (informative) Annual schedule by daily allocation of daily schedules

An example of the set of annual schedules by daily allocation of daily schedules is given in Table B.1. The daily allocation is for the minutest division of the year as prescribed in 4.3 (Table 3).

Table B.1 — Set of annual schedules by daily allocation of daily schedules

Annual schedule A			Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	
January	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Daily schedule						c*	c*	c*	c	a	a	a	a	a	b	c	c*	a	a	a	a	b	
a b c	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
19 4 8	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	a	a	b									
February	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	c*	a	a	b	c	a	a	a	a	a	b	
a b c	Date	22	23	24	25	26	27	28																
19 4 5	Daily schedule	c	a	a	a	a	a	b																
March	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	a	a	b	c	a	a	a	a	a	c*	b	
a b c	Date	22	23	24	25	26	27	28	29	30	31													
27 4 6	Daily schedule	c	a	a	a	a	a	b	c	a	a													
April	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
	Daily schedule				a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	19	20	21	22	23	24	25	26	27	28	29	30											
27 4 5	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	c*	a										
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	Daily schedule						a	b	c*	c*	c*	c*	a	a	b	c	a	a	a	a	a	a	b	
a b c	Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
18 5 8	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	a	a	b	c								
June	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Daily schedule		a	a	a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	21	22	23	24	25	26	27	28	29	30													
22 4 4	Daily schedule	c	a	a	a	a	a	b	c	a	a													
July	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
	Daily schedule				a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	19	20	21	22	23	24	25	26	27	28	29	30	31										
22 4 5	Daily schedule	c	c*	a	a	a	a	b	c	a	a	a	a	a										
August	Date							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
	Daily schedule							b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
21 5 5	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	a	a	a	b	c	a						
September	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Daily schedule			a	a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	20	21	22	23	24	25	26	27	28	29	30												
19 4 7	Daily schedule	c	c*	c*	c*	a	a	b	c	a	a	a												
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					a	a	b	c	a	a	a	a	a	a	b	c	c*	a	a	a	a	b	
a b c	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
21 5 5	Daily schedule	c	a	a	a	a	a	b	c	a	a	a	a	a	b									
November	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	c	a	c*	a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	22	23	24	25	26	27	28	29	30														
19 4 7	Daily schedule	c	c*	a	a	a	a	b	c	a														
December	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Daily schedule			a	a	a	a	b	c	a	a	a	a	a	a	b	c	a	a	a	a	a	b	
a b c	Date	20	21	22	23	24	25	26	27	28	29	30	31											
19 4 8	Daily schedule	c	a	a	c*	a	a	b	c	a	c*	c*	c*											
Yearly total																								
a	b	c																						
241	51	73																						

a: Week days
 b: Saturday
 c: Sunday
 *: Holidays, year-end and new-year holidays

Table B.1 (continued)

Annual schedule B			Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.
January	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Daily schedule					c*	c*	c*	b	b	b	b	b	b	b	b	b	b*	a	a	a	a	b
a b c 14 14 3	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b								
February	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	a	a	a	a	a	b	b	a	a	b*	a	a	b	b	a	a	a	a	a	a	b
a b c 19 9 0	Date	22	23	24	25	26	27	28															
	Daily schedule	b	a	a	a	a	a	b															
March	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b*	b
a b c 14 17 0	Date	22	23	24	25	26	27	28	29	30	31												
	Daily schedule	b	b	b	b	b	b	b	b	b	b												
April	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule				b	b	b	b	b	a	a	a	a	a	a	b	b	a	a	a	a	a	b
a b c 18 12 0	Date	19	20	21	22	23	24	25	26	27	28	29	30										
	Daily schedule	b	a	a	a	a	a	b	b	a	a	b*	a										
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	Daily schedule						a	b	b*	b*	b*	b*	a	a	b	b	a	a	a	a	a	a	b
a b c 18 13 0	Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b	b							
June	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	Daily schedule		a	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 22 8 0	Date	21	22	23	24	25	26	27	28	29	30												
	Daily schedule	b	a	a	a	a	a	b	b	a	a												
July	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule				a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 16 15 0	Date	19	20	21	22	23	24	25	26	27	28	29	30	31									
	Daily schedule	b	b*	a	a	a	b	b	b	b	b	b	b										
August	Date							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Daily schedule							b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b
a b c 0 31 0	Date	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
	Daily schedule	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b						
September	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule			a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 19 11 0	Date	20	21	22	23	24	25	26	27	28	29	30											
	Daily schedule	b	b*	b*	b*	a	a	b	b	a	a	a											
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Daily schedule					a	a	b	b	a	a	a	a	a	a	b	b	b*	a	a	a	a	b
a b c 21 10 0	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b								
November	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	a	b*	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 19 11 0	Date	22	23	24	25	26	27	28	29	30													
	Daily schedule	b	b*	a	a	a	a	b	b	a													
December	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule			a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 16 12 3	Date	20	21	22	23	24	25	26	27	28	29	30	31										
	Daily schedule	b	a	a	b*	b	b	b	b	b	c*	c*	c*										
Yearly total																							
a	b	c																					
196	163	6																					

a: Week days
b: Saturday, Sunday, Holidays, Spring summer and winter holidays
c: Year-end and new-year holidays
*: Holidays, year-end and new-year holidays

Table B.1 (continued)

Annual schedule C			Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	
January	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					c*	c*	c*	b	b	b	b	b	b	b	b	b	b*	a	a	a	a	b	
a b c 14 14 3	Date		18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule		b	a	a	a	a	a	b	b	a	a	a	a	a	b								
February	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	a	a	a	a	a	b	b	a	a	b*	a	a	b	b	a	a	a	a	a	b	
a b c 14 14 0	Date		22	23	24	25	26	27	28															
	Daily schedule		b	b	b	b	b	b	b															
March	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b*	b	
a b c 0 31 0	Date		22	23	24	25	26	27	28	29	30	31												
	Daily schedule		b	b	b	b	b	b	b	b	b	b												
April	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule					b	b	b	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b	
a b c 18 12 0	Date		19	20	21	22	23	24	25	26	27	28	29	30										
	Daily schedule		b	a	a	a	a	a	b	b	a	a	b*	a										
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	Daily schedule						a	b	b*	b*	b*	b*	a	a	b	b	a	a	a	a	a	b		
a b c 18 13 0	Date		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
	Daily schedule		b	a	a	a	a	a	b	b	a	a	a	a	a	b	b							
June	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Daily schedule		a	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b		
a b c 22 8 0	Date		21	22	23	24	25	26	27	28	29	30												
	Daily schedule		b	a	a	a	a	a	b	b	a	a												
July	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule					a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b	
a b c 16 15 0	Date		19	20	21	22	23	24	25	26	27	28	29	30	31									
	Daily schedule		b	b*	a	a	a	b	b	b	b	b	b	b	b									
August	Date								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Daily schedule								b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	
a b c 0 31 0	Date		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
	Daily schedule		b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b						
September	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule				b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	b	
a b c 5 25 0	Date		20	21	22	23	24	25	26	27	28	29	30											
	Daily schedule		b	b*	b*	b*	a	a	b	b	a	a	a											
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					a	a	b	b	a	a	a	a	a	b	b	b*	a	a	a	a	b		
a b c 21 10 0	Date		18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule		b	a	a	a	a	a	b	b	a	a	a	a	a	b								
November	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	a	b*	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b	
a b c 19 11 0	Date		22	23	24	25	26	27	28	29	30													
	Daily schedule		b	b*	a	a	a	a	b	b	a													
December	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule				a	a	a	a	b	a	a	a	a	a	a	b	b	a	a	a	a	a	b	
a b c 16 12 3	Date		20	21	22	23	24	25	26	27	28	29	30	31										
	Daily schedule		b	a	a	b*	b	b	b	b	b	c*	c*	c*										
Yearly total																								
a	b	c																						
163	196	6																						

a: Week days
 b: Saturday, Sunday, Holidays, Spring summer and winter holidays
 c: Year-end and new-year holidays
 *: Holidays, year-end and new-year holidays

Table B.1 (continued)

Annual schedule D			Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	
January	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					c*	c*	c*	b	c	a	a	a	a	b	b	b*	a	a	a	a	a	b	
a b c	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
18 9 4	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b									
February	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	b	c	a	a	a	a	b	b	a	a	b*	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	22	23	24	25	26	27	28																
18 9 7	Daily schedule	b	a	a	a	a	a	b																
March	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	b	c	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	b*	b	
a b c	Date	22	23	24	25	26	27	28	29	30	31													
20 10 1	Daily schedule	b	a	a	a	a	a	b	b	a	a													
April	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
	Daily schedule				a	a	a	b	b	c	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	19	20	21	22	23	24	25	26	27	28	29	30											
20 9 7	Daily schedule	b	a	a	a	a	a	b	b	a	a	b*	a											
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	Daily schedule						a	b	b*	b*	b*	b*	a	a	b	b	c	a	a	a	a	a	b	
a b c	Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
17 13 7	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b	b								
June	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
	Daily schedule		c	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	21	22	23	24	25	26	27	28	29	30													
21 8 7	Daily schedule	b	a	a	a	a	a	b	b	a	a													
July	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
	Daily schedule				a	a	a	b	b	c	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	19	20	21	22	23	24	25	26	27	28	29	30	31										
21 9 7	Daily schedule	b	b*	a	a	a	a	b	b	a	a	a	a	a										
August	Date							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
	Daily schedule							b	b	c	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
20 10 7	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b	b	a						
September	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Daily schedule			a	a	a	a	b	b	c	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	20	21	22	23	24	25	26	27	28	29	30												
18 11 7	Daily schedule	b	b*	b*	b*	a	a	b	b	a	a	a												
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					a	a	b	b	c	a	a	a	a	b	b	b*	a	a	a	a	a	b	
a b c	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31									
20 10 7	Daily schedule	b	a	a	a	a	a	b	b	a	a	a	a	a	b									
November	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
	Daily schedule	b	c	b*	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	22	23	24	25	26	27	28	29	30														
18 11 7	Daily schedule	b	b*	a	a	a	a	b	b	a														
December	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
	Daily schedule			a	a	a	a	b	b	c	a	a	a	a	b	b	a	a	a	a	a	a	b	
a b c	Date	20	21	22	23	24	25	26	27	28	29	30	31											
18 9 4	Daily schedule	b	a	a	b*	a	a	b	b	a	a	c*	c*	c*										
Yearly total																								
a	b	c																						
229	118	18																						

a: Week days
 b: Saturday, Sunday, Holidays
 c: One day a month, Year-end and new-year holidays
 *: Holidays, year-end and new-year holidays

Table B.1 (continued)

Annual schedule E			Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	
January	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					c*	c*	c*	b	c	a	a	a	a	b	b	b*	c	a	a	a	a	b	
a b c	Date		18	19	20	21	22	23	24	25	26	27	28	29	30	31								
15 9 7	Daily schedule		b	c	a	a	a	a	b	b	c	a	a	a	a	b								
February	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	c	a	a	a	a	b	b	c	a	b*	a	a	b	b	c	a	a	a	a	b	
a b c	Date		22	23	24	25	26	27	28															
15 9 4	Daily schedule		b	c	a	a	a	a	b															
March	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	c	a	a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	b*	b	
a b c	Date		22	23	24	25	26	27	28	29	30	31												
16 10 5	Daily schedule		b	c	a	a	a	a	b	b	c	a												
April	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule					a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		19	20	21	22	23	24	25	26	27	28	29	30										
17 9 4	Daily schedule		b	c	a	a	a	a	b	b	c	a	b*	a										
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
	Daily schedule						a	b	b*	b*	b*	b*	c	a	b	b	c	a	a	a	a	a	b	
a b c	Date		17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
14 13 4	Daily schedule		b	c	a	a	a	a	b	b	c	a	a	a	a	b	b							
June	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	Daily schedule			c	a	a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		21	22	23	24	25	26	27	28	29	30												
17 8 5	Daily schedule		b	c	a	a	a	a	b	b	c	a												
July	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule					a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		19	20	21	22	23	24	25	26	27	28	29	30	31									
18 9 4	Daily schedule		b	b*	c	a	a	a	b	b	c	a	a	a	a									
August	Date								1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Daily schedule								b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
16 10 5	Daily schedule		b	c	a	a	a	a	b	b	c	a	a	a	a	b	b	c						
September	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule				a	a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		20	21	22	23	24	25	26	27	28	29	30											
15 11 4	Daily schedule		b	b*	b*	b*	c	a	b	b	c	a	a											
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		
	Daily schedule					a	a	b	b	c	a	a	a	a	b	b	b*	c	a	a	a	a	b	
a b c	Date		18	19	20	21	22	23	24	25	26	27	28	29	30	31								
17 10 4	Daily schedule		b	c	a	a	a	a	b	b	c	a	a	a	a	b								
November	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule		b	c	b*	a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		22	23	24	25	26	27	28	29	30													
14 11 5	Daily schedule		b	b*	c	a	a	a	b	b	c													
December	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule				a	a	a	a	b	b	c	a	a	a	a	b	b	c	a	a	a	a	b	
a b c	Date		20	21	22	23	24	25	26	27	28	29	30	31										
15 9 7	Daily schedule		b	c	a	b*	a	a	b	b	c	c*	c*	c*										
Yearly total																								
a	b	c																						
189	118	58																						

a: Week days
 b: Saturday, Sunday, Holidays
 c: One day a week, Year-end and new-year holidays
 *: Holidays, year-end and new-year holidays

Table B.1 (continued)

Annual schedule F		Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	Su.	Mo.	Tu.	We.	Th.	Fr.	Sa.	
January	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Daily schedule					c*	c*	b*	b	a	a	a	a	a	b	b	b*	a	a	a	a	a	b
a b c 9 10 12	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule	b	c	c	c	c	c	b	b	c	c	c	c	c	b								
February	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	a	a	a	a	a	b	b	a	a	b*	a	a	b	b	a	a	a	a	a	a	b
a b c 14 9 5	Date	22	23	24	25	26	27	28															
	Daily schedule	b	c	c	c	c	c	b															
March	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	c	c	c	c	c	b	b	a	a	a	a	a	b	b	a	a	a	a	b*	b	
a b c 9 10 12	Date	22	23	24	25	26	27	28	29	30	31												
	Daily schedule	b	c	c	c	c	c	b	b	c	c												
April	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule				c	c	c	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 10 9 11	Date	19	20	21	22	23	24	25	26	27	28	29	30										
	Daily schedule	b	c	c	c	c	c	b	b	c	c	b*	c										
May	Date						1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
	Daily schedule						c	b	b*	b*	b*	b*	a	a	b	b	a	a	a	a	a	a	b
a b c 7 13 11	Date	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31							
	Daily schedule	b	c	c	c	c	c	b	b	c	c	c	c	c	b	b							
June	Date		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
	Daily schedule		a	a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 15 8 7	Date	21	22	23	24	25	26	27	28	29	30												
	Daily schedule	b	c	c	c	c	c	b	b	c	c												
July	Date				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Daily schedule				c	c	c	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 10 9 12	Date	19	20	21	22	23	24	25	26	27	28	29	30	31									
	Daily schedule	b	b*	c	c	c	c	b	b	c	c	c	c	c									
August	Date							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	Daily schedule							b	b	a	a	a	a	a	a	b	b	a	a	a	a	a	b
a b c 11 10 10	Date	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31						
	Daily schedule	b	c	c	c	c	c	b	b	c	c	c	c	c	c	b	b	a					
September	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule			a	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 14 11 5	Date	20	21	22	23	24	25	26	27	28	29	30											
	Daily schedule	b	b*	b*	b*	c	c	b	b	c	c	c											
October	Date					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	Daily schedule					c	c	b	b	a	a	a	a	a	b	b	b*	a	a	a	a	a	b
a b c 9 10 12	Date	18	19	20	21	22	23	24	25	26	27	28	29	30	31								
	Daily schedule	b	c	c	c	c	c	b	b	c	c	c	c	c	b								
November	Date	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
	Daily schedule	b	a	b*	a	a	a	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 14 11 5	Date	22	23	24	25	26	27	28	29	30													
	Daily schedule	b	b*	c	c	c	c	b	b	c													
December	Date			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	Daily schedule			c	c	c	c	b	b	a	a	a	a	a	b	b	a	a	a	a	a	a	b
a b c 10 9 12	Date	20	21	22	23	24	25	26	27	28	29	30	31										
	Daily schedule	b	c	c	b*	c	c	b	b	c	c	c*	c*	c*									
Yearly total																							
a	b	c																					
132	119	114																					

a: Week days
b: Saturday, Sunday, Holidays
c: Two weeks a month
*: Holidays, year-end and new-year holidays

Annex C (informative)

Categories of space and zone

C.1 General

Annex C provides an example of categories of space or zone for buildings listed in Table 9. In tables, spaces or zones in bold letters are representing ones for each category of building. This annex includes rather detailed categories of spaces or zones when they are compared with current categories used for building energy calculations. However, in practices for application process of complying with energy standard or for energy certification, any standardized rule to allocate one schedule and condition to any possible kinds of space and zone of target kinds of building has to be prepared for energy calculation. Therefore, even though it is not indispensable to prepare different schedules and conditions for each of different categories of space and zone, it is indispensable to set a table giving correspondence between possible names in drawings and categories of space and zone for energy calculations.

C.2 Categories of space or zone

C.2.1 Office building

Representing space or zone is “office room” or “office room with heavy electrical load”. For a set of personal offices or meeting room, the application of simultaneous usage ratio is recommended in order to make energy calculation more accurate, when partial air-conditioning is possible in the building. If the building contains other functions such as shops, restaurant and so on, types of space or zone for relevant categories of building shall be used.

Table C.1 — Categories of space or zone for office building

Of-1 Office room
Of-2 Office room with heavy electrical load
Of-3 Meeting room
Of-4 Tea room
Of-5 Canteen
Of-6 Central monitor room
Of-7 Changing room
Of-8 Corridor
Of-9 Lobby
Of-10 Lavatory
Of-11 Smoking room
Of-12 Kitchen
Of-13 Indoor parking garage
Of-14 Machine room
Of-15 Electric room
Of-16 Kitchenette with hot water server
Of-17 Storage room
Of-18 Printing room
Of-19 Garbage storage

C.2.2 Hotel building

C.2.2 Hotel building

Representative spaces or zones are “guest room”, and “banquet hall”, “conference hall” or “wedding hall”. Especially the characteristics of “guest room” and the halls are quite different to each other. For the guest room and the halls, the application of simultaneous usage ratio is recommended in order to make energy calculation more accurate.

Table C.2 — Categories of space or zone for hotel building

Ht-1 Guest room
Ht-2 Bath room inside guest room
Ht-3 Front desk open all day
Ht-4 Office room open all day
Ht-5 Corridor open all day
Ht-6 Lobby open all day
Ht-7 Lavatory open all day
Ht-8 Smoking room open all day
Ht-9 Banquet hall
Ht-10 Conference hall
Ht-11 Wedding ceremony hall
Ht-12 Restaurant
Ht-13 Lounge
Ht-14 Bar
Ht-15 Shop
Ht-16 Staff canteen
Ht-17 Changing room
Ht-18 Front desk open not all day
Ht-19 Office room open not all day
Ht-20 Corridor open not all day
Ht-21 Lobby open not all day
Ht-22 Lavatory open not all day
Ht-23 Smoking room open not all day
Ht-24 Kitchen
Ht-25 Indoor parking garage
Ht-26 Machine room
Ht-27 Electric room
Ht-28 Kitchenette with hot water server
Ht-29 Storage room
Ht-30 Printing room
Ht-31 Garbage storage room

C.2.3 Hospital building

The representative spaces or zones are “ward” and “consultation room”. The schedules of those spaces are quite different to each other and some hospital buildings have only one of those spaces or zones.

Table C.3 — Categories of space or zone for hospital building

Hp-1 Ward
Hp-2 Bathroom
Hp-3 Nurses' station
Hp-4 Corridor open all day
Hp-5 Lobby open all day
Hp-6 Lavatory for common use open all day
Hp-7 Smoking room open all day
Hp-8 Consultation room
Hp-9 Waiting room
Hp-10 Operating room
Hp-11 Examination room
Hp-12 Intensive care unit
Hp-13 Dissecting room
Hp-14 Restaurant
Hp-15 Office room
Hp-16 Changing room
Hp-17 Corridor open not all day
Hp-18 Lobby open not all day
Hp-19 Lavatory for common use open not all day
Hp-20 Smoking room open not all day
Hp-21 Kitchen
Hp-22 Indoor parking garage
Hp-23 Machine room
Hp-24 Electric room
Hp-25 Kitchenette with hot water server
Hp-26 Storage room
Hp-27 Printing room
Hp-28 Garbage storage room

C.2.4 Shop building

The representative spaces or zones are “large store”, “small store” and “supermarket”. Among shop buildings, there are various categories of room or zone depending on sold goods and the way of displaying them. The change of occupancy density during a week and seasons is remarkable for some categories of shop building.

Table C.4 — Categories of space or zone for shop building

Sh-1 Large store
Sh-2 Small store
Sh-3 Supermarket
Sh-4 Storage and goods disposal room
Sh-5 Office room
Sh-6 Changing room
Sh-7 Lobby
Sh-8 Lavatory
Sh-9 Smoking room
Sh-10 Kitchen
Sh-11 Indoor parking garage
Sh-12 Machine room
Sh-13 Electric room
Sh-14 Kitchenette with hot water server
Sh-15 Storage room
Sh-16 Printing room
Sh-17 Garbage storage room

C.2.5 Educational building

There are various categories of educational building, from nursery school to university. Heat gains due to person can be different according to the size of occupants, and composition of spaces or zones can be different according to their function. The representative spaces or zones are “class room”, “lecture room” and “lecture hall”, but “office room”, “study room” and “experimental laboratory” should be added in the case of universities. Most of educational organizations have “gymnasium”, whose schedule and condition is quite different from other spaces or zones. “Canteen of junior, junior high and high school” and “kitchen” resemble “dining room of restaurant” and its “kitchen”, respectively, but their schedules are different to each other.

Table C.5 — Categories of space or zone for educational building

Ed-1 Class room of junior and junior high school
Ed-2 Class room of high school
Ed-3 Teachers' room
Ed-4 Canteen of junior, junior high and high school
Ed-5 Lecture room of university
Ed-6 Canteen of university
Ed-7 Office room
Ed-8 Study room
Ed-9 Computer exercise room
Ed-10 Laboratory
Ed-11 Practice room
Ed-12 Lecture hall and gymnasium
Ed-13 Night watchman's room
Ed-14 Changing room
Ed-15 Corridor
Ed-16 Lobby
Ed-17 Lavatory
Ed-18 Smoking room
Ed-19 Kitchen
Ed-20 Indoor parking garage
Ed-21 Machine room
Ed-22 Electric room
Ed-23 Kitchenette with hot water server
Ed-24 Storage room
Ed-25 Printing room
Ed-26 Garbage storage room

C.2.6 Restaurant building

The representative spaces or zones are “dining room for restaurant”, “guest room of coffee house”, “bar” and “kitchen”.

Table C.6 — Categories of space or zone for restaurant building

Rs-1 Dining room of restaurant
Rs-2 Guest room of Cafeteria
Rs-3 Guest room of coffee house
Rs-4 Bar
Rs-5 Reception
Rs-6 Office room
Rs-7 Changing room
Rs-8 Corridor
Rs-9 Lobby
Rs-10 Lavatory
Rs-11 Smoking room
Rs-12 Kitchen
Rs-13 Indoor parking garage
Rs-14 Machine room
Rs-15 Electric room
Rs-16 Kitchenette with hot water server
Rs-17 Storage room
Rs-18 Printing room
Rs-19 Garbage storage room

C.2.7 Library building

The representative space or zone is “reading room”. Categories of attached space or zone are given in C.2.12.

Table C.7 — Categories of space or zone for library building

Lb-1 Reading room
Lb-2 Lobby
Lb-3 Lavatory
Lb-4 Smoking room

C.2.8 Museum building

The representative space or zone is “exhibition room”. Categories of attached space or zone are given in C.2.12.

Table C.8 — Categories of space or zone for museum building

Ms-1 Exhibition room
Ms-2 Lobby
Ms-3 Lavatory
Ms-4 Smoking room

C.2.9 Sports and amusement building

Categories of attached space or zone are given in C.2.12.

Table C.9 — Categories of space or zone for sports facilities building

Sa-1 Exercise room of sports club
Sa-2 Lobby of sports club
Sa-3 Lavatory of sports club
Sa-4 Smoking room of sports club
Sa-5 Skating rink for official competition
Sa-6 Gymnasium for official competition
Sa-7 Skating rink for general competition
Sa-8 Gymnasium for general competition
Sa-9 Skating rink for recreation
Sa-10 Gymnasium for recreation
Sa-11 Spectator stand of gymnasium or skating rink
Sa-12 Lobby of gymnasium or skating rink
Sa-13 Lavatory of gymnasium or skating rink
Sa-14 Smoking room of gymnasium or skating rink
Sa-15 Spectator stand of racing course
Sa-16 Betting shop of racing course
Sa-17 Lobby of racing course
Sa-18 Lavatory of racing course
Sa-19 Smoking room of racing course
Sa-20 Bowling alley
Sa-21 Karaoke room
Sa-22 Pachinko or slot machine hall
Sa-23 Bath hall of bathhouse
Sa-24 Changing room of bathhouse
Sa-25 Lounge of bathhouse
Sa-26 Lobby of bathhouse
Sa-27 Lavatory of bathhouse
Sa-28 Smoking room of bathhouse

C.2.10 Theatre building

Categories of attached space or zone are given in C.2.12.

Table C.10 — Categories of space or zone for theatre building

Th-1 Auditorium of theatre
Th-2 Stage of theatre
Th-3 Backstage of theatre
Th-4 Lobby of theatre
Th-5 Lavatory of theatre
Th-6 Smoking room of theatre
Th-7 Auditorium of movie theatre
Th-8 Lobby of movie theatre
Th-9 Lavatory of movie theatre
Th-10 Smoking room of movie theatre

C.2.11 Religious building

Categories of attached space or zone are given in C.2.12.

Table C.11 — Categories of space or zone for religious building

Re-1 Main hall of religious building
Re-2 Lobby
Re-3 Lavatory
Re-4 Smoking room

C.2.12 Attached space or zone for assembly buildings

The following spaces or zones are attached ones to library (C.2.7), museum (C.2.8), sports and amusement (C.2.9), theatre (C.2.10) and religious (C.2.11) buildings.

Table C.12 — Categories of attached space or zone for assembly buildings

At_As-1 Kitchen
At_As-2 Indoor parking garage
At_As-3 Machine room
At_As-4 Electric room
At_As-5 Kitchenette with hot water server
At_As-6 Storage room
At_As-7 Printing room
At_As-8 Garbage storage room

C.2.13 Warehouse building

Table C.13 — Categories of space or zone for warehouse building

Fc-1 Storage room
Fc-2 Outdoor parking garage

Annex D

(informative)

A set of daily schedules for categories of space and zone

D.1 General

Annex D provides an example of a set of daily schedules is provided for the categories of space and zone listed in Table C.1 to Table C.13. The format and the items of the daily schedules are explained in Annex A. The annual schedules *A* to *F* referred in the part “General” are given in Annex B.

This set of daily schedules is developed in 2011 to 2012 for the energy calculation of non-residential buildings.^[15] The values were determined on the basis of the questionnaire and the interview to designers of building technical systems and on the field measurement of electricity consumption for lighting equipment and electric appliances. As for the internal heat gain due to lighting, it should be noted that the values are based on the situation before a wide spread of LEDs. Therefore, the values in the daily schedules in this annex should be used only when no original daily schedule is available.

In the part “Lighting”, the maintained average illuminance on the height of working plane are given as part of the requirement of lighting design. The values are given just as examples and the relevant standards, i.e. ISO 8995-1, shall be applied and referenced when determining the values.

D.2 Daily schedules

D.2.1 Office building

Category	No.	Of-1	Building	Office building	Space/ZONE	Office room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	3374	12.0	11.9	0.1	12.0	5.0	0	0.0	3133	750	241
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp. [deg] Humid. [%]	Set-back operation Temp. [deg] Humid. [%]	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a 7 21 (14)	Heating season	w1 22 40 - -	a - - (0)	-	a 8 21 (13)	[m]	L/person-day		
b	51	b - - (0)	Cooling season	s1 26 50 - -	b - - (0)	[1/h]	b - - (0)	0.8	3.8		
c	73	c - - (0)	Intermediate season	m1 24 50 - -	c - - (0)	-	c - - (0)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100	100	100	100	100	80	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	60	100	100	100	100	100	50	30	20	0	0	0	
Int. heat gain due to appliances	25	25	25	25	25	25	25	25	100	100	100	100	80	100	100	100	100	100	100	50	50	25	25	25	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	

space/zone to be applied	Office as a whole, telephone operator room, executive room, health consultation room, design room, drawing room, car dispatcher room, information booth
note	office as a whole. Service hot water usage for lavatory is assumed.

Category	No.	<i>Of-2</i>	Building	<i>Office building</i>	Space/ZONE	<i>Office room with heavy electrical load</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water														
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days														
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]														
	3374	12.0	11.9	0.1	30.0	5.0	0	0.0	3133	750	241														
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage												
a	241	a	7	21	(14)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	-	(0)	-	-	(0)	[m]	[L/person-day]	
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	-	-	(0)	[m]	[L/person-day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	-	-	(0)	0.8	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100		100	100	100	100	80	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	60	100	100	100		100	100	50	30	20	0	0	0
Int. heat gain due to appliances	25	25	25	25	25	25	25	100	100	100	100	80	100	100	100	100	100	100	50	50	25	25	25	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	

space/zone to be applied	<i>Computerized office room, server space, recording studio, control room, research room</i>
note	<i>office room with heavy electrical load. Service hot water usage for lavatory is assumed.</i>

Category	No.	<i>Of-3</i>	Building	<i>Office building</i>	Space/ZONE	<i>Meeting room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2410	10.0	29.8	0.3	2.0	12.0	0	0.0	2169	500	241	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 18 (10)	Heating season	w1	22 40 - -	a - - (0)		a 9 18 (9)	[m]	[L/person-day]		
b	51	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)	0.8	3.8		
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
																Saturday									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
																Sunday, Holidays, year-end and new-year holidays									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Meeting corner, seminar room, multi-purpose room, assembly room, drawing room, lecture room, conference room</i>
note	<i>This room is used during the daytime. Occupancy density is higher than office room.</i>

Category	No.	Of-4	Building	Office building	Space/ZONE	Tea room
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water									
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	2410	10.0	29.8	0.3	2.0	12.0	0	0.0	2169	300	241											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	18	(10)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	9	18	(9)	[m]	[L/m2·day]
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	[L/m2·day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	32.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Resting room
note	service hot water usage for cafeteria and coffee house is assumed.

Category	No.	Of-5	Building	Office building	Space/ZONE	Canteen
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	723	30.0	59.5	0.5	0.0	15.0	0	0.0	723	500	241	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 11 14 (3)	Heating season	w1	22 40 - -	a - - (0)		a 11 14 (3)	[m]	[L/m2·day]		
b	51	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)	0.8	48.0		
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																					
	Week days																																																																																																																																																				
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																					
	Saturday																																																																																																																																																				
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																				
		Sunday, Holidays, year-end and new-year holidays																																																																																																																																																			
<table border="1"> <tr> <th>time</th><th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th> </tr> <tr> <td>Simultaneous usage ratio</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to lighting</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to occupants</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>25</td><td>100</td><td>25</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to appliances</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> </table>																									time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0	0	0	0	0	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	100	100	100	0	0	0	0	0	0	0	0	0	0	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	25	100	25	0	0	0	0	0	0	0	0	0	0	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													
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Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													

space/zone to be applied	Staff canteen, cafeteria, restaurant
note	service hot water usage for restaurant is assumed.

Category	No.	<i>Of-6</i>	Building	<i>Office building</i>	Space/ZONE	<i>Central monitor room</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	8760	20.0	17.9	0.2	30.0	4.0	0	0.0	8760	500	365			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- 24 (24)	Heating season	w1	22 40	- -	a	- - - (0)	a	- 24 (24)	[m]	[L/person-day]	
b	51	b	- 24 (24)	Cooling season	s1	26 50	- -	b	- - - (0)	[1/h]	b	- 24 (24)	0.8	3.8
c	73	c	- 24 (24)	Intermediate season	m1	24 50	- -	c	- - - (0)	-	c	- 24 (24)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	12	13	14	15	16		17	18	19	20	21	22	23			
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	50		
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Int. heat gain due to occupants	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Int. heat gain due to occupants	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		

space/zone to be applied	<i>Central control room, disaster prevention center, guardroom, night watchman's room</i>
note	<i>Continuous usage is assumed throughout the year.</i>

Category	No.	Of-7	Building	Office building	Space/ZONE	Changing room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days												
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]												
	3374	15.0	35.7	0.3	0.0	4.0	3133	13.5	3133	300	241												
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage												
a	241	a	7	21 (14)	Heating season	w1	22	40	-	-	a	8	21 (13)										
b	51	b	-	- (0)	Cooling season	s1	26	50	-	-	b	-	- (0)	[1/h]	b	-	- (0)	[m]					[L/person-day]
c	73	c	-	- (0)	Intermediate season	m1	24	50	-	-	c	-	- (0)	5	c	-	- (0)	0					62.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	40	80	40	40	40	40	40	40	40		40	80	80	40	40	40	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	40	40	40	40	40	40	40		40	70	70	40	40	40	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Locker room, dressing room, collector waiting room, receptionist waiting room, storage room, library
note	Air change rate of 5 1/h is assumed. Service hot water usage for bathing or shower is assumed.

Category	No.	Of-8	Building	Office building	Space/ZONE	Corridor
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	3133	15.0	3.6	0.0	0.0	2.5	0	0.0	3133	200	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 21 (13)	Heating season	w1 22 40	- -	a - - (0)		a 8 21 (13)				
b	51	b - - (0)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b - - (0)	[m]	-		
c	73	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	-	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	passage, stairs, vending machine corner
note	

Category	No.	Of-9	Building	Office building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	3133	15.0	3.6	0.0	0.0	2.5	0	0.0	3133	500	241	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd(%)	Set-back operation Temp.(deg) humd(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 8 21 (13)	[m]	[L/person-day]		
b	51	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)				
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
																Saturday									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
																Sunday, Holidays, year-end and new-year holidays									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Atrium, elevator hall, entrance hall, entrance, lounge, gallery, reception, stand, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	Of-11	Building	Office building	Space/ZONE	Smoking room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	3133	15.0	3.6	0.0	0.0	2.5	3133	81.0	3133	300	0		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) hum.(%)	Set-back operation Temp.(deg) hum.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (to total hours)		Height of working plane	Total daily usage
a	241	a 8 21 (13)	Heating season	w1	22 40	- -	a 8 21 (13)			a 8 21 (13)			
b	51	b - - (0)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]		b - - (0)	[m]		-
c	73	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	30		c - - (0)	0		0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	[0-21]					[0-21]					[0-21]													
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	[0-21]					[0-21]					[0-21]													
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	[0-21]					[0-21]					[0-21]													
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	<i>Of-12</i>	Building	<i>Office building</i>	Space/ZONE	<i>Kitchen</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	2000	135.0	2000	750	0							
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	50	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Of-13</i>	Building	<i>Office building</i>	Space/ZONE	<i>Indoor parking garage</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	3500	30.0	3500	150	0							
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Of-14</i>	Building	<i>Office building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	8760	13.5	200	200	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Of-15</i>	Building	<i>Office building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	8760	27.0	200	200	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0.0

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Of-16</i>	Building	<i>Office building</i>	Space/ZONE	<i>Kitchenette with hot water server</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	2000	13.5	1000	300	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Of-17</i>	Building	<i>Office building</i>	Space/ZONE	<i>Storage room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	2000	13.5	1000	300	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Of-18</i>	Building	<i>Office building</i>	Space/ZONE	<i>Printing room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	0	-	-	-	-	-	2000	27.0	1000	500	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-	
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-	
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0.8	0.0	

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Of-19</i>	Building	<i>Office building</i>	Space/ZONE	<i>Garbage storage</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	0	-	-	-	-	-	2000	40.5	1000	150	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-	
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-	
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0	

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

Category	No.	Ht-2	Building	Hotel building	Space/ZONE	Bath room inside guest room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	5475	15.0	6.4	0.1	4.0	4.0	5475	21.6	2920	300	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 19 10 (15)	Heating season	w1	22 40 - -	a 19 10 (15)		a 19 10 (8)	[m]	[L/person-day]		
b	51	b 19 10 (15)	Cooling season	s1	26 50 - -	b 19 10 (15)	[1/h]	b 19 10 (8)				
c	73	c 19 10 (15)	Intermediate season	m1	24 50 - -	c 19 10 (15)	8	c 19 10 (8)	0	165.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19											
Daily schedule a																					Week days					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	50	50	50	50	50	50	50	50	25	0	0	0	0	0	0	0	0	0	0		25	50	50	50	50
	Int. heat gain due to lighting	100	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0		100	100	100	100	100
	Int. heat gain due to occupants	80	80	80	80	80	80	80	80	80	80	0	0	0	0	0	0	0	0	0		80	80	80	80	80
Int. heat gain due to appliances	50	20	20	20	20	20	20	20	50	50	20	20	20	20	20	20	20	20	20	100	100	100	100	50		
Daily schedule b																					Saturday					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	80	80	80	80	80	80	80	80	80	40	0	0	0	0	0	0	0	0	0		40	80	80	80	80
	Int. heat gain due to lighting	100	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0		100	100	100	100	100
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0		100	100	100	100	100
Int. heat gain due to appliances	50	20	20	20	20	20	20	20	50	50	20	20	20	20	20	20	20	20	20	100	100	100	100	50		
Daily schedule c																					Sunday, Holidays, year-end and new-year holidays					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	40	40	40	40	40	40	40	40	20	0	0	0	0	0	0	0	0	0	0		20	40	40	40	40
	Int. heat gain due to lighting	100	0	0	0	0	0	0	0	50	50	0	0	0	0	0	0	0	0	0		100	100	100	100	100
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0		100	100	100	100	100
Int. heat gain due to appliances	50	20	20	20	20	20	20	20	50	50	20	20	20	20	20	20	20	20	20	100	100	100	100	50		

space/zone to be applied	Lavatory, bathroom, dressing room
note	Service hot water usage for bathing or shower of city hotels is assumed. Air change rate of 8 1/h is assumed.

Category	No.	Ht-3	Building	Hotel building	Space/ZONE	Front desk open all day
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	8760	20.0	11.9	0.1	0.0	2.5	0	0.0	8760	500	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a - 24 (24)					
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	b - 24 (24)	[m]	-			
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	c - 24 (24)	0.8	0.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Reception desk, cloak counter
note	Continuous usage is assumed throughout the year.

Category	No.	Ht-4	Building	Hotel building	Space/ZONE	Office room open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water			
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	8760	20.0	23.8	0.2	10.0	5.0	0	0.0	8760	750	365			
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage	
a	241	a	- 24 (24)	Heating season	w1	22 40	- -	a	- - (0)	-	a	- 24 (24)	[m]	[L/person-day]
b	51	b	- 24 (24)	Cooling season	s1	26 50	- -	b	- - (0)	[1/h]	b	- 24 (24)	0.8	3.8
c	73	c	- 24 (24)	Intermediate season	m1	24 50	- -	c	- - (0)	-	c	- 24 (24)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to occupants	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	20	20
Int. heat gain due to appliances	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	50
Daily schedule b																								Saturday
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to occupants	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	20	20
Int. heat gain due to appliances	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	50
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Int. heat gain due to occupants	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	20	20
Int. heat gain due to appliances	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	50

space/zone to be applied	Hotel office, central disaster prevention room, nap room, control room, control room
note	Continuous usage is assumed throughout the year.

Category	No.	Ht-5	Building	Hotel building	Space/ZONE	Corridor open all day
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	8760	10.0	6.0	0.1	0.0	2.5	0	0.0	8760	150	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a - 24 (24)					
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	b - 24 (24)	[m]	-			
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	c - 24 (24)	0	0.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied																																																																																																																																				
	Week days																																																																																																																																																						
Daily schedule b	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied																																																																																																																																				
	Saturday																																																																																																																																																						
	Daily schedule c	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied																																																																																																																																			
		Sunday, Holidays, year-end and new-year holidays																																																																																																																																																					
<table border="1"> <thead> <tr> <th>time</th><th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th> </tr> </thead> <tbody> <tr> <td>Simultaneous usage ratio</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td> </tr> <tr> <td>Int. heat gain due to lighting</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td> </tr> <tr> <td>Int. heat gain due to occupants</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to appliances</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> </tbody> </table>																									time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0	0	0	0	100	100	100	0	0	0	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	20	21	22	23																																																																																																																													
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Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0	0	0	0	100	100	100	0	0	0																																																																																																																															
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																															

space/zone to be applied	Passage, stairs, vending machine corner, linen room, laundromet
note	Continuous usage is assumed throughout the year.

Category	No.	Ht-6	Building	Hotel building	Space/ZONE	Lobby open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	8760	20.0	11.9	0.1	0.0	2.5	0	0.0	8760	300	365
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) hump.(%)	Set-back operation Temp.(deg) hump.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage	
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)		a - 24 (24)		
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b - 24 (24)	[m]	
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	-	c - 24 (24)	0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Daily schedule a																										Week days
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	20	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																										Saturday
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	20	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																										Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	20	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Hotel lobby, main entrance, elevator hall, entrance, business corner
note	Continuous usage is assumed throughout the year.

Category	No.	Ht-7	Building	Hotel building	Space/ZONE	Lavatory open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	8760	20.0	11.9	0.1	0.0	2.5	8760	40.5	8760	300	0			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- 24 (24)	Heating season	w1	22 40	- -	a	- 24 (24)	-	a	- 24 (24)	[m]	-
b	51	b	- 24 (24)	Cooling season	s1	26 50	- -	b	- 24 (24)	[1/h]	b	- 24 (24)	0	0.0
c	73	c	- 24 (24)	Intermediate season	m1	24 50	- -	c	- 24 (24)	15	c	- 24 (24)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
			0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting		20	20	20	20	20	20	20	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Continuous usage is assumed throughout the year. Air change rate of 15 1/h is assumed.

Category	No.	Ht-8	Building	Hotel building	Space/ZONE	Smoking room open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	8760	20.0	11.9	0.1	0.0	2.5	8760	81.0	8760	300	0
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) hump.(%)	Set-back operation Temp.(deg) hump.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage	
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - 24 (24)		a - 24 (24)		
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - 24 (24)	[1/h]	b - 24 (24)	[m]	-
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - 24 (24)	30	c - 24 (24)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Daily schedule a																										Week days
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																										Saturday
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																										Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to lighting	20	20	20	20	20	20	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	20	20	20	20	20	100	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Smoking corner
note	Continuous usage is assumed throughout the year. Air change rate of 30 1/h is assumed.

Category	No.	Ht-9	Building	Hotel building	Space/ZONE	Banquet hall
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4380	100.0	101.5	0.7	12.0	20.0	0	0.0	4380	750	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 9 21 (12)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)					
b	51	b 9 21 (12)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	[m]	[L/person-day]			
c	73	c 9 21 (12)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 9 21 (12)	0	3.8			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70		70	70	70	70	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	

space/zone to be applied	Wedding hall, grand hall
note	

Category	No.	Ht-10	Building	Hotel building	Space/ZONE	Conference hall
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	4380	50.0	101.5	0.7	0.0	20.0	0	0.0	4380	750	365		
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd(%)	Set-back operation Temp.(deg) humd(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 9 21 (12)	Heating season	w1 22 40 - -	a - - (0)	a - - (0)	[1/h]	a 9 21 (12)	[m]	[L/person-day]			
b	51	b 9 21 (12)	Cooling season	s1 26 50 - -	b - - (0)	b - - (0)	-	b 9 21 (12)	0.8	3.8			
c	73	c 9 21 (12)	Intermediate season	m1 24 50 - -	c - - (0)	c - - (0)	-	c 9 21 (12)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70	70	70	70	70	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Conference hall, seminar hall
note	

Category	No.	Ht-11	Building	Hotel building	Space/ZONE	Wedding ceremony hall
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	4380	30.0	35.7	0.3	0.0	7.5	0	0.0	4380	750	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 20 (12)	Heating season	w1	22 40 - -	a - - (0)		a 8 20 (12)				
b	51	b	8 20 (12)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 8 20 (12)	[m]	[L/person-day]		
c	73	c	8 20 (12)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 8 20 (12)	0.8	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60		60	60	60	60	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Chapel for wedding, church for wedding
note	

Category	No.	Ht-12	Building	Hotel building	Space/ZONE	Restaurant
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water								
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days									
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]									
	5475	20.0	59.5	0.5	10.0	12.5	0	0.0	4745	300	365									
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage									
a	241	a	6	21 (15)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	6	21 (13)	[m]	[L/m ² -day]
b	51	b	6	21 (15)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	6	21 (13)		
c	73	c	6	21 (15)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	6	21 (13)	0.8	48.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	40	40	40	0	0	80	80	0	0	0	0	80	80	80	80	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100	0	0	0	
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	50	50	50	0	0	100	100	0	0	0	0	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100	0	0	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	50	50	50	0	0	100	100	0	0	0	0	100	100	100	100	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	100	100	100	100	0	0	0	

space/zone to be applied	Cafeteria, tea room
note	service hot water usage for restaurant is assumed.

Category	No.	Ht-14	Building	Hotel building	Space/ZONE	Bar
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water												
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days														
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]														
	2190	10.0	23.8	0.2	0.0	5.0	0	0.0	2190	150	365														
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage												
a	241	a	18	24	(6)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	-	(0)	a	18	24	(6)	[m]	[L/person-day]
b	51	b	18	24	(6)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	18	24	(6)	[m]	[L/person-day]			
c	73	c	18	24	(6)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	18	24	(6)	0.8	3.8			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	80	80		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	100	100		100	100
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	100	100		100	100
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Bar lounge
note	Nighttime usage is assumed

Category	No.	Ht-15	Building	Hotel building	Space/ZONE	Shop
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	3650	30.0	11.9	0.1	30.0	10.0	0	0.0	3650	500	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	9 19 (10)	Heating season	w1	22 40 - -	a - - (0)		a 9 19 (10)				
b	51	b	9 19 (10)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 19 (10)	[m]	[L/person-day]		
c	73	c	9 19 (10)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 9 19 (10)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
			0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	30	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	25	50	80	80	80	80	80	80	80	25	0	0	0	0	0		
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	30	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0		

space/zone to be applied	Specialty store, food shop, convenience store, general store, souvenir store
note	

Category	No.	Ht-16	Building	Hotel building	Space/ZONE	Staff canteen
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	5475	20.0	59.5	0.5	0.0	12.5	0	0.0	5110	500	365		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a 6 21 (15)	Heating season	w1	22 40	- -	a - - (0)	-	a 7 21 (14)	[m]	[L/m2·day]		
b	51	b 6 21 (15)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 7 21 (14)	0.8	48.0		
c	73	c 6 21 (15)	Intermediate season	m1	24 50	- -	c - - (0)	-	c 7 21 (14)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days	
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to occupants	0	0	0	0	0	0	0	40	40	20	20	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday	
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0		
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to occupants	0	0	0	0	0	0	0	40	40	20	20	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays	
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0		
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to occupants	0	0	0	0	0	0	0	40	40	20	20	100	100	100	20	20	20	20	100	100	20	0	0	0		
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Employee canteen
note	service hot water usage for restaurant is assumed.

Category	No.	<i>Ht-17</i>	Building	<i>Hotel building</i>	Space/ZONE	<i>Changing room</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	8760	15.0	11.9	0.1	0.0	5.0	8760	13.5	8760	300	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - 24 (24)		a - 24 (24)	[m]	[L/person-day]		
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - 24 (24)	[1/h]	b - 24 (24)	0	62.0		
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - 24 (24)	5	c - 24 (24)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants		100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Locker room, dressing room, collector waiting room, storage room, library</i>
note	<i>Continuous usage is assumed throughout the year. Air change rate of 5 1/h is assumed.</i>

Category	No.	Ht-18	Building	Hotel building	Space/ZONE	Front desk open not all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days												
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]												
	4745	35.0	23.8	0.2	0.0	7.5	0	0.0	4745	500	0												
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage										
a	241	a	8	21 (13)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	-	(0)	a	8	21 (13)	[m]	-
b	51	b	8	21 (13)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	8	21 (13)	0.8	0.0			
c	73	c	8	21 (13)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	8	21 (13)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Reception desk for banquet, cloak counter for banquet
note	Daytime usage is assumed

Category	No.	<i>Ht-19</i>	Building	<i>Hotel building</i>	Space/ZONE	<i>Office room open not all day</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	5475	20.0	23.8	0.2	10.0	5.0	0	0.0	5475	750	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	7 22 (15)	Heating season	w1	22 40 - -	a - - (0)	-	a 7 22 (15)	[m]	[L/person-day]		
b	51	b	7 22 (15)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 7 22 (15)	0.8	3.8		
c	73	c	7 22 (15)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 7 22 (15)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Saturday																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Sunday, Holidays, year-end and new-year holidays																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	

space/zone to be applied	<i>Office for banquet</i>
note	<i>Daytime usage is assumed</i>

Category	No.	Ht-20	Building	Hotel building	Space/ZONE	Corridor open not all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days												
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]												
	4745	10.0	11.9	0.1	0.0	5.0	0	0.0	4745	150	0												
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage										
a	241	a	8	21 (13)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	-	(0)	a	8	21 (13)	[m]	-
b	51	b	8	21 (13)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	8	21 (13)	[m]	0	0.0		
c	73	c	8	21 (13)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	8	21 (13)	[m]	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	80	80	80	80	80	80	80	80	80	0		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Corridor for banquet halls, passage, stairs, vending machine corner
note	Daytime usage is assumed

Category	No.	Ht-21	Building	Hotel building	Space/ZONE	Lobby open not all day
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	4745	35.0	23.8	0.2	0.0	7.5	0	0.0	4745	300	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 8 21 (13)	Heating season	w1	22 40	- -	a - - (0)	a 8 21 (13)	[m]	[L/person-day]			
b	51	b 8 21 (13)	Cooling season	s1	26 50	- -	b - - (0)	b 8 21 (13)	0	3.8			
c	73	c 8 21 (13)	Intermediate season	m1	24 50	- -	c - - (0)	c 8 21 (13)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0 <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th>	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0 <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> <th>13</th> <th>14</th> <th>15</th> <th>16</th> <th>17</th> <th>18</th> <th>19</th> <th>20</th> <th>21</th> <th>22</th> <th>23</th>	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Lobby for banquet halls, entrance for banquet halls
note	Daytime usage is assumed

Category	No.	Ht-23	Building	Hotel building	Space/ZONE	Smoking room open not all day
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water									
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	4745	35.0	23.8	0.2	0.0	7.5	4745	81.0	4745	300	0											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)			Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage								
a	241	a	8	21	(13)	Heating season	w1	22	40	-	-	a	8	21	(13)							
b	51	b	8	21	(13)	Cooling season	s1	26	50	-	-	b	8	21	(13)	[1/h]	b	8	21	(13)	[m]	-
c	73	c	8	21	(13)	Intermediate season	m1	24	50	-	-	c	8	21	(13)	30	c	8	21	(13)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner for banquet halls
note	Daytime usage is assumed

Category	No.	<i>Ht-24</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Kitchen</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	3200	135.0	3200	750	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Ht-25</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Indoor parking garage</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	8760	30.0	8760	150	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Ht-26</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	8760	13.5	320	200	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)			Height of working plane	Total daily usage				
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ht-27</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	8760	27.0	320	200	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)			Height of working plane	Total daily usage				
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Ht-28</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	3200	13.5	1600	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0.8	0.0		

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ht-29</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	3200	13.5	1600	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ht-30</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours		maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]		[lux]	[day]					
		0	-	-	-	-	-	3200	27.0	1600		500	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0.8	0.0

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Ht-31</i>	Building	<i>Hotel building</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours		maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]		[lux]	[day]					
		0	-	-	-	-	-	3200	40.5	1600		150	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	15	0	0.0

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.3 Hospital building

Category	No.	Hp-1	Building	Hospital building	Space/ZONE	Ward
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	8760	12.0	7.4	0.1	3.0	4.0	0	0.0	5110	300	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) hum.(%)	Set-back operation Temp.(deg) hum.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a - 24 (24)	Heating season	w1 22 40	- -	a - - (0)	-	a 7 21 (14)	[m]	[L/bed-day]		
b	51	b - 24 (24)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 7 21 (14)	0	284.2		
c	73	c - 24 (24)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 7 21 (14)				

Daily schedule	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Daily schedule a																									Week days	
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		90
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	
Daily schedule b																									Saturday	
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		90
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	
Daily schedule c																									Sunday, Holidays, year-end and new-year holidays	
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		23
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		90
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	

space/zone to be applied	Patient room, private room, isolation room, newborn room, recovery room
note	Continuous usage is assumed throughout the year.

Category	No.	Hp-2	Building	Hospital building	Space/ZONE	Bathroom
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	8760	12.0	7.4	0.1	3.0	4.0	8760	21.6	5110	300	365	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a - 24 (24)	Heating season	w1 22 40	- -	a - 24 (24)		a 7 21 (14)				
b	51	b - 24 (24)	Cooling season	s1 26 50	- -	b - 24 (24)	[1/h]	b 7 21 (14)	[m]	[L/bed-day]		
c	73	c - 24 (24)	Intermediate season	m1 24 50	- -	c - 24 (24)	8	c 7 21 (14)	0	284.2		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
Daily schedule a																								Week days	
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	
Daily schedule b																								Saturday	
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays	
	Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0
	Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	10	

space/zone to be applied	Shower room, dressing room, shampoo room, laundry room
note	Continuous usage is assumed throughout the year. Air change rate of 8 1/h is assumed.

Category	No.	Hp-3	Building	Hospital building	Space/ZONE	Nurses' station
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	8760	12.0	7.4	0.1	3.0	4.0	0	0.0	5110	750	365
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage	
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a 7 21 (14)	[m]	[L/bed·day]	
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	b 7 21 (14)	0.8	284.2	
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	c 7 21 (14)			

Daily schedule a	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	
Daily schedule b	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	
Daily schedule c	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	10	10	10	10	10	10	10	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	10	10	

space/zone to be applied	Staff station, staff room, staff resting room, duty staff room, night watchman's room
note	Continuous usage is assumed throughout the year.

Category	No.	Hp-4	Building	Hospital building	Space/ZONE	Corridor open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]
	8760	20.0	6.0	0.1	0.0	5.0	0	0.0	8760	300	0
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a - - 24 (24)	[m]	-	
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b - - 24 (24)	0	0.0
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	-	c - - 24 (24)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19											
Daily schedule a																					Week days					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100
	Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
	Int. heat gain due to occupants	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																					Saturday					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100
	Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
	Int. heat gain due to occupants	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																					Sunday, Holidays, year-end and new-year holidays					
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23
	Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100
	Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
	Int. heat gain due to occupants	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100		100	100	50	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Corridor of ward, passage of ward, stairs of ward, vending machine corner of ward
note	Continuous usage is assumed throughout the year.

Category	No.	Hp-5	Building	Hospital building	Space/ZONE	Lobby open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	8760	20.0	6.0	0.1	0.0	5.0	0	0.0	8760	300	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a - 24 (24)	[m]	[L/person-day]		
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]				
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	-	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Lobby of ward, reception of ward, main entrance of ward, elevator hall of ward, telephone booth of ward
note	Continuous usage is assumed throughout the year.

Category	No.	<i>Hp-6</i>	Building	<i>Hospital building</i>	Space/ZONE	<i>Lavatory for common use open all day</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	8760	20.0	6.0	0.1	0.0	5.0	8760	40.5	8760	300	0			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- 24 (24)	Heating season	w1	22 40	- -	a	- 24 (24)		a	- 24 (24)		
b	51	b	- 24 (24)	Cooling season	s1	26 50	- -	b	- 24 (24)	[1/h]	b	- 24 (24)	[m]	-
c	73	c	- 24 (24)	Intermediate season	m1	24 50	- -	c	- 24 (24)	15	c	- 24 (24)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied
	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
																Week days
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																Saturday
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
																Sunday, Holidays, year-end and new-year holidays
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room</i>
note	<i>Continuous usage is assumed throughout the year.</i>

Category	No.	Hp-7	Building	Hospital building	Space/ZONE	Smoking room open all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	8760	20.0	6.0	0.1	0.0	5.0	8760	81.0	8760	300	0	
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - 24 (24)	a - 24 (24)	[m]	-		
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - 24 (24)	[1/h]	b - 24 (24)	0		
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - 24 (24)	30	c - 24 (24)	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100		100	100	100	100	50	50	50	50
Int. heat gain due to occupants	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	50	50	50	50	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner of ward
note	Air change rate of 30 1/h is assumed.

Category	No.	Hp-8	Building	Hospital building	Space/ZONE	Consultation room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2818	20.0	23.8	0.2	15.0	5.0	0	0.0	2818	750	292	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a	8 18 (10)	Heating season	w1	22 40 - -	a - - (0)	-	a 8 18 (10)	[m]	[L/m ² -day]	
b	51	b	8 16 (8)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 8 16 (8)	0.8	3.3	
c	73	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50		50	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Daily schedule b																Saturday								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	50	50	50	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Consultation room of departments, chemotherapy room, exercise room, nursery, hydrotherapy room, blood purification room, speech therapy, triage room
note	Maintained average illuminance 750 is assumed

Category	No.	Hp-9	Building	Hospital building	Space/ZONE	Waiting room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water			
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days				
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]				
	2818	20.0	23.8	0.2	15.0	5.0	0	0.0	2818	500	292				
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage				
a	241	a	8	18 (10)	Heating season	w1	22 40 - -	a	- - - (0)	a	8	18 (10)	[m]	[L/m ² -day]	
b	51	b	8	16 (8)	Cooling season	s1	26 50 - -	b	- - - (0)	[1/h]	b	8	16 (8)	0	3.3
c	73	c	-	- (0)	Intermediate season	m1	24 50 - -	c	- - - (0)	-	c	-	- (0)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	0	0	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Saturday																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Sunday, Holidays, year-end and new-year holidays																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Waiting space, reception desk, information desk, consultation desk, visiting room, telephone booth, suckling room, family room, playroom, lounge
note	Maintained average illuminance 500lx is assumed

Category	No.	Hp-10	Building	Hospital building	Space/ZONE	Operating room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	2920	20.0	11.9	0.1	30.0	10.0	0	0.0	2920	1500	292											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	18	(10)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	18	(10)	[m]	[L/m2·day]
b	51	b	8	18	(10)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	8	18	(10)	[m]	[L/m2·day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	6.3

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Daily schedule b																Saturday								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	50	50	50		50	50	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50		50	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50		50	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	0	0	0	0	0	0		
Daily schedule c																Sunday, Holidays, year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Operating hall, preparation room for operating room, recovery room
note	Maintained average illuminance 1500 is assumed

Category	No.	Hp-11	Building	Hospital building	Space/ZONE	Examination room
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	2920	20.0	11.9	0.1	30.0	10.0	0	0.0	2920	750	292		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 8 18 (10)	Heating season	w1	22 40 - -	a - - (0)		a 8 18 (10)	[m]	[L/m ² ·day]			
b	51	b 8 18 (10)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 8 18 (10)	0.8	6.3			
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Week days																							
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Saturday																							
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Sunday, Holidays, year-end and new-year holidays																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0

space/zone to be applied	Manipulation room, sterilization room, pasteurization room, detergent room, culture test room, medicine room, CT room, MRI room, angiography room, ultrasonic echo room, electromyogram room, fluoroscope room, treadmill room, anesthesia room, electrocardiogram
note	Maintained average illuminance 750 is assumed

Category	No.	Hp-12	Building	Hospital building	Space/ZONE	Intensive care unit
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	8760	20.0	9.2	0.1	30.0	4.0	0	0.0	8760	750	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a - 24 (24)	Heating season	w1	22 40	- -	a - - (0)	a - - 24 (24)	[m]	[L/m ² -day]			
b	51	b - 24 (24)	Cooling season	s1	26 50	- -	b - - (0)	b - - 24 (24)	0.8	6.3			
c	73	c - 24 (24)	Intermediate season	m1	24 50	- -	c - - (0)	c - - 24 (24)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
	Week days																								
																			Week days						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100		100	100	100	50	50	50
Int. heat gain due to occupants	70	70	70	70	70	70	70	100	100	100	100	100	100	100	100	100	100	100		100	100	100	70	70	70
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Daily schedule b	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
	Saturday																								
																			Saturday						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100		100	100	100	50	50	50
Int. heat gain due to occupants	70	70	70	70	70	70	70	100	100	100	100	100	100	100	100	100	100	100		100	100	100	70	70	70
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Daily schedule c	Hourly ratio of int. heat gain due to lighting						Hourly ratio of int. heat gain due to occupants						Hourly ratio of heat gain due to appliances						Days to be applied						
	Sunday, Holidays, year-end and new-year holidays																								
																			Sunday, Holidays, year-end and new-year holidays						
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17		18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100
Int. heat gain due to lighting	50	50	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100		100	100	100	50	50	50
Int. heat gain due to occupants	70	70	70	70	70	70	70	100	100	100	100	100	100	100	100	100	100	100		100	100	100	70	70	70
Int. heat gain due to appliances	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

space/zone to be applied	ICU, CCU, MFI CU, NI CU, GCU, HCU, ICU preparation room, emergency treatment room
note	Continuous usage is assumed throughout the year.

Category	No.	Hp-13	Building	Hospital building	Space/ZONE	Dissecting room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days												
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]												
	2920	20.0	23.8	0.2	15.0	5.0	0	0.0	2628	75	292												
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd(%)	Set-back operation Temp.(deg) humd(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage												
a	241	a	8	18 (10)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	-	(0)	a	9	18 (9)	[m]	[L/person-day]
b	51	b	8	18 (10)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	9	18 (9)	[m]	0.8	3.8		
c	73	c	-	- (0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	- (0)	0.8	3.8			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0			
Daily schedule b																								Saturday			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	50	0	0	0		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	50	0	0	0		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	50	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Transfusion storage room, narcotic control room, specimen room, mortuary, experimental animal room
note	Maintained average illuminance 750 is assumed

Category	No.	Hp-14	Building	Hospital building	Space/ZONE	Restaurant
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4380	20.0	11.9	0.1	10.0	4.0	0	0.0	4380	500	365	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a	7 19 (12)	Heating season	w1	22 40 - -	a - - (0)	-	a 7 19 (12)	[m]	[L/m2·day]	
b	51	b	7 19 (12)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 7 19 (12)	0.8	48.0	
c	73	c	7 19 (12)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 7 19 (12)			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																						
	Week days																																																																																																																																																					
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																						
	Saturday																																																																																																																																																					
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																					
		Sunday, Holidays, year-end and new-year holidays																																																																																																																																																				
<table border="1"> <tr> <th>time</th><th>0</th><th>1</th><th>2</th><th>3</th><th>4</th><th>5</th><th>6</th><th>7</th><th>8</th><th>9</th><th>10</th><th>11</th><th>12</th><th>13</th><th>14</th><th>15</th><th>16</th><th>17</th><th>18</th><th>19</th><th>20</th><th>21</th><th>22</th><th>23</th> </tr> <tr> <td>Simultaneous usage ratio</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to lighting</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to occupants</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> <tr> <td>Int. heat gain due to appliances</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>100</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td> </tr> </table>																									time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0
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Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
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Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														
Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0																																																																																																																														

space/zone to be applied	Eating place, tearoom, coffee shop
note	service hot water usage for restaurant is assumed.

Category	No.	Hp-15	Building	Hospital building	Space/ZONE	Office room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	2920	20.0	23.8	0.2	15.0	5.0	0	0.0	2628	750	292
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage	
a	241	a 8 18 (10)	Heating season	w1	22 40	- -	a - - (0)	a 9 18 (9)			
b	51	b 8 18 (10)	Cooling season	s1	26 50	- -	b - - (0)	b 9 18 (9)	[m]	[L/person-day]	
c	73	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	c - - (0)	0.8	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
																Saturday									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50	50	50	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
																Sunday, Holidays, year-end and new-year holidays									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Medical office, conference room, meeting room, drawing room, library, study room, director room, president room, clinical record room
note	office as a whole. Service hot water usage for lavatory is assumed.

Category	No.	Hp-16	Building	Hospital building	Space/ZONE	Changing room
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	2920	15.0	11.9	0.1	0.0	5.0	2920	13.5	2628	300	292		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 18 (10)	Heating season	w1	22 40 - -	a	8 18 (10)		a	9 18 (9)	[m]	[L/person-day]
b	51	b	8 18 (10)	Cooling season	s1	26 50 - -	b	8 18 (10)	[1/h]	b	9 18 (9)		
c	73	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	5	c	- - (0)	0	62.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50		50	50	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	50	50	50	50		50	50	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Locker room, dressing room, shower room
note	Continuous usage is assumed throughout the year. Air change rate of 5 1/h is assumed.

Category	No.	Hp-17	Building	Hospital building	Space/ZONE	Corridor open not all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2920	20.0	7.3	0.1	0.0	5.0	0	0.0	2920	300	0	
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 18 (10)	Heating season	w1	22 40 - -	a - - (0)		a 8 18 (10)				
b	51	b 8 18 (10)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 8 18 (10)	[m]	-		
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Week days																							
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Saturday																							
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Sunday, Holidays, year-end and new-year holidays																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Corridor for outpatients' departments, passage, stairs, vending machine corner
note	Daytime usage is assumed

Category	No.	<i>Hp-18</i>	Building	<i>Hospital building</i>	Space/ZONE	<i>Lobby open not all day</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	2920	20.0	7.3	0.1	0.0	5.0	0	0.0	2920	300	292		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 18 (10)	Heating season	w1	22 40	- -	a	- - (0)	a	8 18 (10)	[m]	[L/person-day]
b	51	b	8 18 (10)	Cooling season	s1	26 50	- -	b	- - (0)	b	8 18 (10)	[m]	
c	73	c	- - (0)	Intermediate season	m1	24 50	- -	c	- - (0)	c	- - (0)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Reception desk for outpatients, main entrance, elevator hall, telephone booth, locker room</i>
note	<i>Daytime usage is assumed</i>

Category	No.	Hp-19	Building	Hospital building	Space/ZONE	Lavatory for common use open not all day
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2920	20.0	7.3	0.1	0.0	5.0	2920	40.5	2920	300	0	
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 18 (10)	Heating season	w1	22 40 - -	a 8 18 (10)		a 8 18 (10)				
b	51	b 8 18 (10)	Cooling season	s1	26 50 - -	b 8 18 (10)	[1/h]	b 8 18 (10)	[m]	-		
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	15	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Week days																							
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Saturday																							
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Sunday, Holidays, year-end and new-year holidays																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Daytime usage is assumed

Category	No.	<i>Hp-20</i>	Building	<i>Hospital building</i>	Space/ZONE	<i>Smoking room open not all day</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	2920	20.0	7.3	0.1	0.0	5.0	2920	81.0	2920	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 18 (10)	Heating season	w1	22 40 - -	a	8 18 (10)		a	8 18 (10)	[m]	-
b	51	b	8 18 (10)	Cooling season	s1	26 50 - -	b	8 18 (10)	[1/h]	b	8 18 (10)	[m]	-
c	73	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	30	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	50		50	50	50	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Smoking corner</i>
note	<i>Air change rate of 30 1/h is assumed.</i>

Category	No.	<i>Hp-21</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Kitchen</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	5500	135.0	5500	750	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Hp-22</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Indoor parking garage</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	8760	30.0	8760	150	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	(0)	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	(0)	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	(0)	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Hp-23</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	8760	13.5	550	200	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point			Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	0	0.0

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Hp-24</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	8760	27.0	550	200	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point			Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0	0.0

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Hp-25</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	5500	13.5	2800	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a - - (0)	Heating season	0	- - - -	- -	a - - - (0)			a - - - (0)			
b	51	b - - (0)	Cooling season	0	- - - -	- -	b - - - (0)	[1/h]		b - - - (0)	[m]		-
c	73	c - - (0)	Intermediate season	0	- - - -	- -	c - - - (0)	5		c - - - (0)	0.8		0.0

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Hp-26</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	5500	13.5	2800	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a - - (0)	Heating season	0	- - - -	- -	a - - - (0)			a - - - (0)			
b	51	b - - (0)	Cooling season	0	- - - -	- -	b - - - (0)	[1/h]		b - - - (0)	[m]		-
c	73	c - - (0)	Intermediate season	0	- - - -	- -	c - - - (0)	5		c - - - (0)	0		0.0

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Hp-27</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
		0	-	-	-	-	-	5500	27.0	2800	500	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage	
a	241	a	- - (0)	Heating season	0	- - - -	a	- - - (0)	-	a	- - - (0)	[m]	-
b	51	b	- - (0)	Cooling season	0	- - - -	b	- - - (0)	[1/h]	b	- - - (0)	0.8	0.0
c	73	c	- - (0)	Intermediate season	0	- - - -	c	- - - (0)	10	c	- - - (0)		

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Hp-28</i>	Building	<i>Hospital building</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
		0	-	-	-	-	-	5500	40.5	2800	150	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage	
a	241	a	- - (0)	Heating season	0	- - - -	a	- - - (0)	-	a	- - - (0)	[m]	-
b	51	b	- - (0)	Cooling season	0	- - - -	b	- - - (0)	[1/h]	b	- - - (0)	0	0.0
c	73	c	- - (0)	Intermediate season	0	- - - -	c	- - - (0)	15	c	- - - (0)		

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.4 Shop building

Category	No.	Sh-1	Building	Shop building	Space/ZONE	Large store
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General		Space heating & cooling					Ventilation for unconditioned space			Lighting			Domestic hot water							
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours		Ventilation requirement	Operation hours		maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]		[m3/h·m2]	[hours/yr.]		[lux]	[day]						
		4745	30.0	23.8	0.2	40.0	7.5	0		0.0	4745		750	365						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] hump [Psi]	Set-back operation Temp. [deg] hump [Psi]	Time of start & end (hours)			Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	9	22 (13)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	9	22 (13)	[m]	[L/person-day]
b	51	b	9	22 (13)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	9	22 (13)		
c	73	c	9	22 (13)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	9	22 (13)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time																									
Simultaneous usage ratio																									
Int. heat gain due to lighting																									
Int. heat gain due to occupants																									
Int. heat gain due to appliances																									
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
	time																								
	Simultaneous usage ratio																								
	Int. heat gain due to lighting																								
Int. heat gain due to occupants																									
Int. heat gain due to appliances																									
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
	time																								
	Simultaneous usage ratio																								
	Int. heat gain due to lighting																								
Int. heat gain due to occupants																									
Int. heat gain due to appliances																									

space/zone to be applied	Electrical appliance store, sports shop, exhibition room, convenience store
note	Maintained average illuminance 750 is assumed. Service hot water usage for lavatory is assumed.

Category	No.	Sh-2	Building	Shop building	Space/ZONE	Small store
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4745	30.0	23.8	0.2	40.0	7.5	0	0.0	4745	500	365	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 9 22 (13)	Heating season	w1 22 40	- -	a - - (0)		a 9 22 (13)				
b	51	b 9 22 (13)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 9 22 (13)	[m]	[L-person-day]		
c	73	c 9 22 (13)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 9 22 (13)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	20	20	30	30	30	30	30	30	30	10	10	10	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	
Daily schedule b																								Saturday
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	100	50	30	10	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	100	50	30	10	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	

space/zone to be applied	Shop for musical instruments, book shop, music CD shop, boutique, grocery shop, after-school study center, studio, exhibition hall, clinic, pet shop, beauty salon, beauty treatment salon, travel agency
note	Maintained average illuminance 500 is assumed. Service hot water usage for lavatory is assumed.

Category	No.	Sh-3	Building	Shop building	Space/ZONE	Supermarket
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	4745	30.0	23.8	0.2	40.0	7.5	0	0.0	4745	750	365
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) hump(%)	Set-back operation Temp.(deg) hump(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage	
a	241	a 9 22 (13)	Heating season	w1	22 40	- -	a - - (0)		a 9 22 (13)	[m]	[L/person-day]
b	51	b 9 22 (13)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 9 22 (13)		
c	73	c 9 22 (13)	Intermediate season	m1	24 50	- -	c - - (0)	-	c 9 22 (13)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
		Time																									
Simultaneous usage ratio																											
Int. heat gain due to lighting																											
Int. heat gain due to occupants																											
Int. heat gain due to appliances																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	20	20	30	30	30	30	30	30	10	10	10	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	50	30	10	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	50	30	10	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0			

space/zone to be applied	Food section, food shop
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Sh-4</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Storage and goods disposal room</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2920	15.0	11.9	0.1	5.0	5.0	0	0.0	2920	200	365	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 10 18 (8)	Heating season	w1 22 40	- -	a - - (0)	-	a 10 18 (8)	[m]	[L·person-day]		
b	51	b 10 18 (8)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 10 18 (8)	0	3.8		
c	73	c 10 18 (8)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 10 18 (8)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	50	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0		
Daily schedule b																								Saturday
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	50	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	50	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0		

space/zone to be applied	<i>Food preparation room, product administration room, locker room, storage room</i>
note	<i>Maintained average illuminance 200 is assumed</i>

Category	No.	Sh-5	Building	Shop building	Space/ZONE	Office room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4745	20.0	23.8	0.2	15.0	5.0	0	0.0	4745	750	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd(%)	Set-back operation Temp.(deg) humd(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 9 22 (13)	Heating season	w1 22 40 - -	a - - (0)	a - - (0)	[1/h]	a 9 22 (13)	[m]	[L/person-day]		
b	51	b 9 22 (13)	Cooling season	s1 26 50 - -	b - - (0)	b - - (0)	-	b 9 22 (13)	0.8	3.8		
c	73	c 9 22 (13)	Intermediate season	m1 24 50 - -	c - - (0)	c - - (0)	-	c 9 22 (13)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	100	100	100	100	100	50	25	25	25	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	60	60	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	100	100	100	100	100	100	50	25	25	25	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	60	60	0	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	100	100	100	100	100	100	50	25	25	25	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	60	60	0	0	

space/zone to be applied	Manager's room, office space, reception desk
note	office as a whole. Service hot water usage for lavatory is assumed.

Category	No.	<i>Sh-6</i>	Building	<i>Shop building</i>	Space/ZONE	<i>Changing room</i>
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	4745	15.0	11.9	0.1	0.0	5.0	4745	13.5	4745	300	365			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	9 22 (13)	Heating season	w1	22 40 - -	a	9 22 (13)		a	9 22 (13)			
b	51	b	9 22 (13)	Cooling season	s1	26 50 - -	b	9 22 (13)	[1/h]	b	9 22 (13)	[m]	[L/person-day]	
c	73	c	9 22 (13)	Intermediate season	m1	24 50 - -	c	9 22 (13)	5	c	9 22 (13)	0	62.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
			0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	50	50	100	100	100	100	50	25	25	25	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	<i>Collector waiting room, nap room, strage room, rest area</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	Sh-7	Building	Shop building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4745	30.0	11.9	0.1	0.0	2.5	0	0.0	4745	750	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd(%)	Set-back operation Temp.(deg) humd(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 9 22 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 22 (13)	[m]	[L/person-day]		
b	51	b 9 22 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 22 (13)	0	3.8		
c	73	c 9 22 (13)	Intermediate season	m1	24 50 - -	c - - (0)	-	c 9 22 (13)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0		0	0
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100		0	0
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100		0	0

space/zone to be applied	Elevator hall, entrance hall, atrium, mall concourse, shopping mall, corridor, information booth
note	Service hot water usage for lavatory is assumed.

Category	No.	Sh-8	Building	Shop building	Space/ZONE	Lavatory
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]			
	4745	30.0	11.9	0.1	0.0	2.5	4745	40.5	4745	300	0			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	9 22 (13)	Heating season	w1	22 40 - -	a	9 22 (13)		a	9 22 (13)	[m]		
b	51	b	9 22 (13)	Cooling season	s1	26 50 - -	b	9 22 (13)	[1/h]	b	9 22 (13)		-	
c	73	c	9 22 (13)	Intermediate season	m1	24 50 - -	c	9 22 (13)	15	c	9 22 (13)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
																Week days									
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	20	20	30	30	30	30		30	30	10	10	10	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	10	50	50	50	100	100		100	100	50	30	10	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	50	100	100	100	100	100		100	100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	10	50	50	50	100	100		100	100	50	30	10	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Sh-9	Building	Shop building	Space/ZONE	Smoking room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4745	30.0	11.9	0.1	0.0	2.5	4745	81.0	4745	300	0	
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 9 22 (13)	Heating season	w1	22 40 - -	a 9 22 (13)		a 9 22 (13)				
b	51	b 9 22 (13)	Cooling season	s1	26 50 - -	b 9 22 (13)	[1/h]	b 9 22 (13)	[m]	-		
c	73	c 9 22 (13)	Intermediate season	m1	24 50 - -	c 9 22 (13)	30	c 9 22 (13)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	20	20	30	30	30	30	30	30	30	10	10	10	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	50	30	10	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	10	50	50	50	100	100	100	100	50	30	10	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	<i>Sh-10</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Kitchen</i>		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	0	-	-	-	-	-	3400	135.0	3400	750	0											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)				Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage									
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)							
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	50	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Sh-11</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Indoor parking garage</i>		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	0	-	-	-	-	-	5500	30.0	5500	150	0											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)				Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage									
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)							
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Sh-12</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	8760	13.5	340	200	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Sh-13</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	8760	27.0	340	200	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Sh-14</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	0	-	-	-	-	-	3400	13.5	1700	300	0											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage										
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-					
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-					
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Sh-15</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	0	-	-	-	-	-	3400	13.5	1700	300	0											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage										
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-					
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-					
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	c	-	-	(0)	0	0.0

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Sh-16</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	3400	27.0	1700	500	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Sh-17</i>	Building	<i>Shop building</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	3400	40.5	1700	150	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.5 Educational building

Category	No.	Ed-1	Building	Educational building	Space/ZONE	Class room of junior and junior high school
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General	Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water											
	Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days										
<i>B</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h-m2]	[hours/yr.]	[m3/h-m2]	[hours/yr.]	[lux]	[day]											
	1568	20.0	59.5	0.5	0.5	12.5	0	0.0	1568	500	196											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. (deg) humi. (%)	Set-back operation Temp. (deg) humi. (%)	Time of start & end (hours)			Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage									
a	196	a	8	16	(8)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	16	(8)	[m]	[L/person-day]
b	-	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	[L/person-day]
c	6	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	10.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Week days																							
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70	70	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0

Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Year-end and new-year holidays																							
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Year-end and new-year holidays																							
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Lecture room, homeroom, nursery
note	Summer, winter and spring holidays are assumed. Service hot water usage for school-provided lunch is assumed.

Category	No.	<i>Ed-2</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Class room of high school</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>B</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	1568	20.0	59.5	0.5	0.5	12.5	0	0.0	1568	500	196	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	196	a	8 16 (8)	Heating season	w1	22 40 - -	a - - (0)		a	8 16 (8)		
b	-	b	- - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b	- - (0)	[m]	
c	6	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c	- - (0)	0.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70		70	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Lecture room, homeroom</i>
note	<i>Summer, winter and spring holidays are assumed. Service hot water usage for lavatory is assumed.</i>

Category	No.	<i>Ed-3</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Teachers' room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>B</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	3590	20.0	23.8	0.2	10.0	5.0	0	0.0	3590	500	359		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi. [%]	Set-back operation Temp. [deg] humi. [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	196	a	8 18 (10)	Heating season	w1	22 40 - -	a	- - (0)	-	a	8 18 (10)	[m]	[L/person-day]
b	-	b	8 18 (10)	Cooling season	s1	26 50 - -	b	- - (0)	[1/h]	b	8 18 (10)	0.8	3.8
c	6	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	-	c	- - (0)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	30	30	30	30	50	30	30		30	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20		20	20	20	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	20	20	20	20	20	20	20	20	20	20	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Staff room, faculty room</i>
note	<i>All days usage is assumed throughout the year except for New year and year end is assumed.</i>

Category	No.	<i>Ed-4</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Canteen of junior, junior high and high school</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>B</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	588	15.0	59.5	0.5	0.0	12.5	0	0.0	588	500	196	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	196	a 11 14 (3)	Heating season	w1	22 40 - -	a - - (0)		a 11 14 (3)				
b	-	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)	[m]	[L/m ² -day]		
c	6	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0.8	32.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	100	100	100	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	100	100	100	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
																Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
																Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Restaurant, cafeteria</i>
note	<i>service hot water usage for cafe is assumed.</i>

Category	No.	<i>Ed-5</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Lecture room of university</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>C</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
		<i>1630</i>	<i>20.0</i>	<i>59.5</i>	<i>0.5</i>	<i>2.0</i>	<i>10.0</i>	<i>0</i>	<i>0.0</i>	<i>1630</i>	<i>500</i>	<i>163</i>	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	<i>163</i>	a	<i>8 18 (10)</i>	Heating season	<i>w1</i>	<i>22 40 - -</i>	a	<i>- - (0)</i>		a	<i>8 18 (10)</i>		
b	<i>-</i>	b	<i>- - (0)</i>	Cooling season	<i>s1</i>	<i>26 50 - -</i>	b	<i>- - (0)</i>	[1/h]	b	<i>- - (0)</i>	[m]	[L/person-day]
c	<i>6</i>	c	<i>- - (0)</i>	Intermediate season	<i>m1</i>	<i>24 50 - -</i>	c	<i>- - (0)</i>	-	c	<i>- - (0)</i>	<i>0.8</i>	<i>3.8</i>

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Lecture hall, student hall room</i>
note	<i>Summer, winter and spring holidays are assumed. Service hot water usage for lavatory is assumed.</i>

Category	No.	<i>Ed-6</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Canteen of university</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
C	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	3132	15.0	59.5	0.5	0.0	12.5	0	0.0	3132	500	359	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	163	a 8 20 (12)	Heating season	w1	22 40 - -	a - - (0)		a 8 20 (12)	[m]	[L/m ² -day]		
b	-	b 8 14 (6)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 8 14 (6)				
c	6	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0.8	48.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Year-end and new-year holidays																								
	Year-end and new-year holidays																								
	Year-end and new-year holidays																								
	Year-end and new-year holidays																								
	[Graphs showing hourly ratios for schedules a, b, and c]																								
	[Data tables for simultaneous usage ratio and internal heat gain for schedules a, b, and c]																								

space/zone to be applied	<i>Restaurant, cafeteria, student dining hall, staff cafeteria</i>
note	<i>service hot water usage for restaurant is assumed.</i>

Category	No.	Ed-7	Building	Educational building	Space/ZONE	Office room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]											
	2410	20.0	23.8	0.2	10.0	5.0	0	0.0	2410	750	241											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi. [%]	Set-back operation Temp. [deg] humi. [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	18	(10)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	18	(10)	[m]	[L/person-day]
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)		
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	70	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	50	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	100	100	100	100	100	70	100	100	100	100	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Administrative office room, president room, sickroom, professor room, lecturer room, teaching material preparation room, drawing room, employment consultation room, lecturer lounge, meeting room, counseling room, consultation room, interview room, inspect
note	office as a whole. Service hot water usage for lavatory is assumed.

Category	No.	Ed-8	Building	Educational building	Space/ZONE	Study room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	3504	20.0	23.8	0.2	30.0	5.0	0	0.0	3504	750	292	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 9 21 (12)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)	[m]	[L/person-day]		
b	51	b 9 21 (12)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	0.8	3.8		
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Saturday																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	50	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Sunday, Holidays, year-end and new-year holidays																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Seminar room, common study room, lounge
note	

Category	No.	<i>Ed-9</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Computer exercise room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	1928	20.0	59.5	0.5	60.0	12.5	0	0.0	1928	750	241	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a	8 16 (8)	Heating season	w1	22 40 - -	a - - (0)		a 8 16 (8)			
b	51	b	- - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)	[m]	[L/person-day]	
c	73	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0.8	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																					
	Week days																																																																																																																																																				
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	Saturday																																																																																																																																																				
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		Sunday, Holidays, year-end and new-year holidays																																																																																																																																																			
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Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																													

space/zone to be applied	<i>PC room, computer room, studio, CAD room, audiovisual classroom</i>
note	

Category	No.	Ed-10	Building	Educational building	Space/ZONE	Laboratory
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]											
	1928	20.0	59.5	0.5	60.0	12.5	0	0.0	1928	1000	241											
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	16	(8)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	16	(8)	[m]	[L/person-day]
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	[L/person-day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70	70	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Precision work classroom, precision experiment classroom, precision drafting classroom, mechanical drawing classroom
note	Maintained average illuminance 1000 is assumed

Category	No.	Ed-11	Building	Educational building	Space/ZONE	Practice room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]											
	1928	20.0	59.5	0.5	60.0	12.5	0	0.0	1928	750	241											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	16	(8)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	16	(8)	[m]	[L/person-day]
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	[L/person-day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0.8	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	70	70	70	70	70	70	70	70	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Drawing classroom, closing classroom, science classroom, art classroom, homemaking classroom, music classroom, library, librarian room, reading room, study room
note	Maintained average illuminance 750 is assumed

Category	No.	<i>Ed-12</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Lecture hall and gymnasium</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]
	1205	20.0	83.3	0.7	0.0	18.0	0	0.0	723	500	241
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a 10 15 (5)	Heating season	w1	22 40 - -	a - - (0)		a 11 15 (3)	[m]	[L/person-day]	
b	51	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)			
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
		time	0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	<i>Lecture theater, lecture room, auditorium, assembly hall, gymnasium, spectator seat, storage of gymnasium, drill all</i>
note	

Category	No.	Ed-13	Building	Educational building	Space/ZONE	Night watchman's room
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water									
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]											
	5475	15.0	6.4	0.1	4.0	4.0	0	0.0	2920	500	365											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	19	10	(15)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	19	10	(8)	[m]	[L/person-day]
b	51	b	19	10	(15)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	19	10	(8)	[m]	[L/person-day]
c	73	c	19	10	(15)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	8	c	19	10	(8)	0.4	165.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied
	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
																Week days
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	50	50	50	50	50	50	50	50	25	0	0	0	0	0	25	
Int. heat gain due to lighting	100	0	0	0	0	0	0	50	50	0	0	0	0	0	100	
Int. heat gain due to occupants	80	80	80	80	80	80	80	80	80	0	0	0	0	80	80	
Int. heat gain due to appliances	50	20	20	20	20	20	20	50	50	20	20	20	20	100	100	
																Saturday
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	80	80	80	80	80	80	80	80	40	0	0	0	0	40	80	
Int. heat gain due to lighting	100	0	0	0	0	0	0	50	50	0	0	0	0	100	100	
Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	0	0	0	0	100	100	
Int. heat gain due to appliances	50	20	20	20	20	20	20	50	50	20	20	20	20	100	100	
																Sunday, Holidays, year-end and new-year holidays
time	0	1	2	3	4	6	7	8	9	10	15	16	17	18	19	
Simultaneous usage ratio	40	40	40	40	40	40	40	40	20	0	0	0	0	20	40	
Int. heat gain due to lighting	100	0	0	0	0	0	0	50	50	0	0	0	0	100	100	
Int. heat gain due to occupants	100	100	100	100	100	100	100	100	100	0	0	0	0	100	100	
Int. heat gain due to appliances	50	20	20	20	20	20	20	50	50	20	20	20	20	100	100	

space/zone to be applied	guard room
note	service hot water usage for city hotel of 75% of capacity usage ratio is assumed.

Category	No.	<i>Ed-14</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Changing room</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2410	15.0	11.9	0.1	0.0	5.0	2410	13.5	2410	300	241	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 8 18 (10)	Heating season	w1	22 40 - -	a 8 18 (10)		a 8 18 (10)	[m]	[L/person-day]		
b	51	b - - (0)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b - - (0)				
c	73	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c - - (0)	0	62.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
			0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	100	100	100	100	70	100	100		100	100	100	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100	100	100	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	<i>Dressing room, locker room, storage</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ed-15</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Corrido</i>		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]			
	2410	15.0	3.6	0.0	0.0	2.5	0	0.0	2410	200	0			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a	8 18 (10)	Heating season	w1	22 40	- -	a	- - - (0)	-	a	8 18 (10)	[m]	-
b	51	b	- - (0)	Cooling season	s1	26 50	- -	b	- - - (0)	[1/h]	b	- - (0)	[m]	-
c	73	c	- - (0)	Intermediate season	m1	24 50	- -	c	- - - (0)	-	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	70	100	100	100	100	100	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100	100	100	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Sunday, Holidays, year-end and new-year holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Passage, stairs, vending machine corner</i>
note	

Category	No.	Ed-16	Building	Educational building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]											
	2410	35.0	23.8	0.2	0.0	7.5	0	0.0	2410	300	241											
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage											
a	241	a	8	18	(10)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	a	8	18	(10)	[m]	[L/person-day]
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	[L/person-day]
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	-	c	-	-	(0)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		Sunday, Holidays, year-end and new-year holidays																									
			0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	100	100	100	100	70	100	100		100	100	100	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100	100	100	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Atrium, elevator hall, entrance hall, entrance, lounge, gallery, reception, stand, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Ed-17</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Lavatory</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water											
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days													
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]													
	2410	15.0	3.6	0.0	0.0	2.5	2410	40.5	2410	300	0													
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage													
a	241	a	8	18	(10)	Heating season	w1	22	40	-	-	a	8	18	(10)									
b	51	b	-	-	(0)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	-		
c	73	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	15	c	-	-	(0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	70	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	50	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
																	Saturday							
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
																	Sunday, Holidays, year-end and new-year holidays							
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16		17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

Category	No.	Ed-18	Building	Educational building			Space/ZONE	Smoking room		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water													
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days														
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]														
	2410	15.0	3.6	0.0	0.0	2.5	2410	81.0	2410	300	0														
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage														
a	241	a	8	18 (10)	Heating season	w1	22	40	-	-	a	8	18 (10)												
b	51	b	-	- (0)	Cooling season	s1	26	50	-	-	b	-	- (0)	[1/h]	b	-	- (0)	[m]							-
c	73	c	-	- (0)	Intermediate season	m1	24	50	-	-	c	-	- (0)	30	c	-	- (0)	0							0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	70	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	50	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday																								
																Saturday									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Sunday, Holidays, year-end and new-year holidays																								
																Sunday, Holidays, year-end and new-year holidays									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	<i>Ed-19</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Kitchen</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	1200	135.0	1200	750	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Ed-20</i>	Building	<i>Educational building</i>	Space/ZONE	<i>Indoor parking garage</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	3000	30.0	3000	150	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Ed-21</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	8760	13.5	120	200	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ed-22</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	8760	27.0	120	200	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Ed-23</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	1200	13.5	600	300	0							
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	0.8	0.0

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ed-24</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	1200	13.5	600	300	0							
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	0	0.0

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Ed-25</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	1200	27.0	600	500	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Ed-26</i>	Building	<i>Educational building</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
	0	-	-	-	-	-	1200	40.5	600	150	0						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage					
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.6 Restaurant building

Category	No.	Rs-1	Building	Restaurant building	Space/ZONE	Dining room of restaurant
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4745	30.0	72.5	0.5	40.0	12.5	0	0.0	4745	500	365	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 10 23 (13)	Heating season	w1 22 40	- -	a - - (0)	-	a 10 23 (13)	[m]	[L/m2-day]		
b	51	b 10 23 (13)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 10 23 (13)				
c	73	c 10 23 (13)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 10 23 (13)	0.8	48.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Week days									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	40	80	80	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	80	80	80	80	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Saturday									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	100	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	100	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	100	0	

space/zone to be applied	Guest room of Restaurant
note	service hot water usage for restaurant is assumed.

Category	No.	Rs-2	Building	Restaurant building	Space/ZONE	Guest room of Cafeteria
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4745	20.0	72.5	0.5	0.0	12.5	0	0.0	4745	300	365		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a 10 23 (13)	Heating season	w1	22 40	- -	a - - (0)	-	a 10 23 (13)	[m]	[L/m ² ·day]		
b	51	b 10 23 (13)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 10 23 (13)				
c	73	c 10 23 (13)	Intermediate season	m1	24 50	- -	c - - (0)	-	c 10 23 (13)	0.8	16.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Daily schedule a																								Week days	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	80	80	80	80		0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	100	100	100	100		0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	100	100	100	100		0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Guest room of first food
note	service hot water usage for fast-food chain is assumed.

Category	No.	<i>Rs-3</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Guest room of coffee house</i>			
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General		Space heating & cooling					Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	5475	25.0	47.6	0.4	10.0	10.0	0	0.0	5475	200	365		
Total number of days of each daily schedule [day]	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 7 22 (15)	Heating season	w1 22 40	- -	a - - (0)		a 7 22 (15)					
b	51	b 7 22 (15)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 7 22 (15)	[m]	[L/m2·day]			
c	73	c 7 22 (15)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 7 22 (15)	0.8	32.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Daily schedule a	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	80	80	50	50	100	50	50	50	50	80	80	50	50	50	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	80	80	50	50	100	50	50	50	50	80	80	50	50	50	0	0
Daily schedule b	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	50	50	50	50	100	80	80	80	80	80	80	50	50	50	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	50	50	50	50	100	80	80	80	80	80	80	50	50	50	0	0
Daily schedule c	Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	50	50	50	50	100	80	80	80	80	80	80	50	50	50	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	50	50	50	50	100	80	80	80	80	80	80	50	50	50	0	0

space/zone to be applied	<i>Guest room of café, guest room of coffee shop, guest room of tearoom</i>
note	<i>service hot water usage for cafe is assumed.</i>

Category	No.	Rs-4	Building	Restaurant building	Space/ZONE	Bar
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]
	1752	10.0	23.8	0.2	0.0	5.0	0	0.0	1752	50	292
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	241	a 18 24 (6)	Heating season	w1	22 40	- -	a - - (0)	a 18 24 (6)	[m]	[L/m2·day]	
b	51	b 18 24 (6)	Cooling season	s1	26 50	- -	b - - (0)	b 18 24 (6)	0.8	32.0	
c	73	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	c - - (0)			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	12	13	14	15	16		17	18	19	20	21	22	23				
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100		100	100	100
Daily schedule b																								Saturday			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	100	100	100		100	100	100
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0

space/zone to be applied	Bar corner, guest room of shot bar
note	Maintained average illuminance 50 is assumed

Category	No.	<i>Rs-5</i>	Building	<i>Restaurant building</i>	Space/ZONE	<i>Reception</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4745	20.0	11.9	0.1	0.0	2.5	0	0.0	4745	500	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 10 23 (13)	Heating season	w1 22 40	- -	a - - (0)		a 10 23 (13)				
b	51	b 10 23 (13)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 10 23 (13)	[m]	-		
c	73	c 10 23 (13)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 10 23 (13)	0.8	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Week days								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	40	80	80	80	80	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Saturday								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	40	100	100	100	100	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Sunday, Holidays, year-end and new-year holidays								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	40	100	100	100	100	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

space/zone to be applied	<i>Front desk, cloak counter, counting room</i>
note	

Category	No.	Rs-6	Building	Restaurant building	Space/ZONE	Office room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4745	15.0	11.9	0.1	10.0	5.0	0	0.0	4745	750	365		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (to total hours)		Height of working plane	Total daily usage
a	241	a 10 23 (13)	Heating season	w1	22 40	- -	a - - (0)	-	a 10 23 (13)	[m]	3.8		
b	51	b 10 23 (13)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 10 23 (13)	[L/person-day]			
c	73	c 10 23 (13)	Intermediate season	m1	24 50	- -	c - - (0)	-	c 10 23 (13)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Saturday																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Sunday, Holidays, year-end and new-year holidays																									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	

space/zone to be applied	Staff room, resting room
note	office as a whole. Service hot water usage for lavatory is assumed.

Category	No.	<i>Rs-7</i>	Building	<i>Restaurant building</i>	Space/ZONE	<i>Changing room</i>
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General		Space heating & cooling					Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4745	15.0	11.9	0.1	0.0	5.0	4745	13.5	4745	300	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 10 23 (13)	Heating season	w1 22 40	- -	a 10 23 (13)		a 10 23 (13)					
b	51	b 10 23 (13)	Cooling season	s1 26 50	- -	b 10 23 (13)	[1/h]	b 10 23 (13)	[m]	[L-person-day]			
c	73	c 10 23 (13)	Intermediate season	m1 24 50	- -	c 10 23 (13)	5	c 10 23 (13)	0	62.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
Daily schedule b																								Saturday
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	

space/zone to be applied	<i>Locker room, dressing room, collector waiting room, receptionist waiting room, storage room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	Rs-8	Building	Restaurant building	Space/ZONE	Corridor
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4745	20.0	11.9	0.1	0.0	2.5	0	0.0	4745	150	0		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a 10 23 (13)	Heating season	w1	22 40	- -	a - - (0)	-	a 10 23 (13)	[m]	0.0		
b	51	b 10 23 (13)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 10 23 (13)	-	-		
c	73	c 10 23 (13)	Intermediate season	m1	24 50	- -	c - - (0)	-	c 10 23 (13)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																				
	Week days																																																																																																																																																			
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																				
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	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																																																																																																																																			
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Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0																																																																																																																												
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	100	100	100	100	0	0																																																																																																																												
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																																																												

space/zone to be applied	Passage, stairs, vending machine corner
note	

Category	No.	<i>Rs-9</i>	Building	<i>Restaurant building</i>	Space/ZONE	<i>Lobby</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4745	20.0	11.9	0.1	0.0	2.5	0	0.0	4745	300	365	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a 10 23 (13)	Heating season	w1 22 40	- -	a - - (0)		a 10 23 (13)				
b	51	b 10 23 (13)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 10 23 (13)	[m]	[L-person-day]		
c	73	c 10 23 (13)	Intermediate season	m1 24 50	- -	c - - (0)	-	c 10 23 (13)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	80	80	80	80	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	100	100	100	100	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	40	100	100	100	100	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	<i>Waiting room, entrance hall</i>
note	<i>Service hot water usage for lavatory is assumed.</i>

Category	No.	<i>Rs-10</i>	Building	<i>Restaurant building</i>	Space/ZONE	<i>Lavatory</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4745	20.0	11.9	0.1	0.0	2.5	4745	40.5	4745	300	0		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) hum.(%)	Set-back operation Temp.(deg) hum.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a 10 23 (13)	Heating season	w1	22 40	- -	a 10 23 (13)			a 10 23 (13)	[m]		
b	51	b 10 23 (13)	Cooling season	s1	26 50	- -	b 10 23 (13)	[1/h]		b 10 23 (13)		-	
c	73	c 10 23 (13)	Intermediate season	m1	24 50	- -	c 10 23 (13)	15		c 10 23 (13)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Week days									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	80	80	40	40		40	40	40	80	80	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Saturday									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	80	80	40	40		40	40	40	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																Sunday, Holidays, year-end and new-year holidays									
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	80	80	40	40		40	40	40	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0

space/zone to be applied	<i>Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

Category	No.	Rs-11	Building	Restaurant building	Space/ZONE	Smoking room
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General		Space heating & cooling					Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	4745	20.0	11.9	0.1	0.0	2.5	4745	81.0	4745	300	0		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 10 23 (13)	Heating season	w1 22 40	- -	a 10 23 (13)		a 10 23 (13)					
b	51	b 10 23 (13)	Cooling season	s1 26 50	- -	b 10 23 (13)	[1/h]	b 10 23 (13)	[m]	-			
c	73	c 10 23 (13)	Intermediate season	m1 24 50	- -	c 10 23 (13)	30	c 10 23 (13)	0	0.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Week days								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	80	80	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Saturday								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
																Sunday, Holidays, year-end and new-year holidays								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	40	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	<i>Rs-12</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Kitchen</i>		
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	3400	135.0	3400	750	0							
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	50	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>Rs-13</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Indoor parking garage</i>		
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
	0	-	-	-	-	-	5000	30.0	5000	150	0							
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Rs-14</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	8760	13.5	340	200	0						
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	5	0	0.0

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Rs-15</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water					
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	8760	27.0	340	200	0						
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0	0.0

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>Rs-16</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	3400	13.5	1700	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0.8	0.0		

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Rs-17</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	3400	13.5	1700	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a	- - (0)	Heating season	0 - - - -	a	- - - (0)	a	- - - (0)	[m]	-		
b	51	b	- - (0)	Cooling season	0 - - - -	b	- - - (0)	b	- - - (0)	[m]	-		
c	73	c	- - (0)	Intermediate season	0 - - - -	c	- - - (0)	c	- - - (0)	0	0.0		

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>Rs-18</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours		maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]		[lux]	[day]					
		0	-	-	-	-	-	3400	27.0	1700		500	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	10	0.8	0.0

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>Rs-19</i>	Building	<i>Restaurant building</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours		maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]		[lux]	[day]					
		0	-	-	-	-	-	3400	40.5	1700		150	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage			
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-	
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	-	
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	15	0	0.0

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.7 Library building

Category	No.	Lb-1	Building	Library building	Space/ZONE	Reading room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>E</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	3377	15.0	23.8	0.2	3.0	7.0	0	0.0	3070	750	307
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp. (deg) Humid (%)	Set-back operation Temp. (deg) Humid (%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	189	a 8 19 (11)	Heating season	w1 22 40	- -	a - - (0)	-	a 9 19 (10)	[m]	[L/person-day]	
b	118	b 8 19 (11)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 9 19 (10)			
c	58	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	-	c - - (0)	0.8	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
																Week days										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60		60	60	60	60	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0		
Daily schedule b																Saturday, Sunday, Holidays										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0		
Daily schedule c																One day a week, Year-end and new-year holidays										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	reading room, book storeroom, storage, research room
note	Service hot water usage for lavatory is assumed.

Category	No.	Lb-2	Building	Library building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	3377	15.0	23.8	0.2	0.0	5.0	0	0.0	3070	300	307		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	189	a	8 19 (11)	Heating season	w1	22 40 - -	a	- - (0)	-	a	9 19 (10)	[m]	[L/person-day]
b	118	b	8 19 (11)	Cooling season	s1	26 50 - -	b	- - (0)	[1/h]	b	9 19 (10)	0	3.8
c	58	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	-	c	- - (0)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday, Sunday, Holidays																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		One day a week, Year-end and new-year holidays																									
		time	0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Holl, foyer, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Lb-3</i>	Building	<i>Library building</i>	Space/ZONE	<i>Lavatory</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>E</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	3377	15.0	23.8	0.2	0.0	5.0	3070	40.5	3070	300	0		
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	189	a	8 19 (11)	Heating season	w1	22 40 - -	a	9 19 (10)		a	9 19 (10)	[m]	-
b	118	b	8 19 (11)	Cooling season	s1	26 50 - -	b	9 19 (10)	[1/h]	b	9 19 (10)	[m]	-
c	58	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	15	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	Week days																									
																Week days										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60		60	60	60	60	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																Saturday, Sunday, Holidays										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																One day a week, Year-end and new-year holidays										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	<i>Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

Category	No.	Lb-4	Building	Library building	Space/ZONE	Smoking room
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days			
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]			
	3377	15.0	23.8	0.2	0.0	5.0	3070	81.0	3070	300	0			
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	189	a	8 19 (11)	Heating season	w1	22 40	- -	a	9 19 (10)		a	9 19 (10)	[m]	-
b	118	b	8 19 (11)	Cooling season	s1	26 50	- -	b	9 19 (10)	[1/h]	b	9 19 (10)	[m]	-
c	58	c	- - (0)	Intermediate season	m1	24 50	- -	c	- - (0)	30	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60		60	60	60	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

D.2.8 Museum building

Category	No.	Ms-1	Building	Museum building	Space/ZONE	Exhibition room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h-m2]	[hours/yr.]	[m3/h-m2]	[hours/yr.]	[lux]	[day]
	2763	15.0	3.6	0.0	0.0	6.0	0	0.0	2456	500	307
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	189	a 8 17 (9)	Heating season	w1 22 40	- -	a - - (0)	-	a 9 17 (8)	[m]	[L/person-day]	
b	118	b 8 17 (9)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 9 17 (8)			
c	58	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	-	c - - (0)	0	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Gallery, exhibit room, lobby, storage, research room
note	Service hot water usage for lavatory is assumed.

Category	No.	Ms-2	Building	Museum building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	2763	15.0	23.8	0.2	0.0	5.0	0	0.0	2456	300	307	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	189	a 8 17 (9)	Heating season	w1 22 40	- -	a - - (0)		a 9 17 (8)				
b	118	b 8 17 (9)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 9 17 (8)	[m]	[L-person-day]		
c	58	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	-	c - - (0)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Daily schedule a																								Week days
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday, Sunday, Holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								One day a week, Year-end and new-year holidays
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Holl, foyer, waiting room, booking office
note	Service hot water usage for lavatory is assumed.

Category	No.	Ms-3	Building	Museum building	Space/ZONE	Lavatory
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>E</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	2763	15.0	23.8	0.2	0.0	5.0	2456	40.5	2456	300	0
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) hump(h%)	Set-back operation Temp.(deg) hump(h%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage
a	189	a	8 17 (9)	Heating season	w1	22 40	- -	a	9 17 (8)		
b	118	b	8 17 (9)	Cooling season	s1	26 50	- -	b	9 17 (8)	[1/h]	
c	58	c	- - (0)	Intermediate season	m1	24 50	- -	c	- - (0)	15	0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday, Sunday, Holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	One day a week, Year-end and new-year holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Ms-4	Building	Museum building	Space/ZONE	Smoking room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	2763	15.0	23.8	0.2	0.0	5.0	2456	81.0	2456	300	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	189	a 8 17 (9)	Heating season	w1 22 40	- -	a 9 17 (8)		a 9 17 (8)				
b	118	b 8 17 (9)	Cooling season	s1 26 50	- -	b 9 17 (8)	[1/h]	b 9 17 (8)	[m]	-		
c	58	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	30	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50		50	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday, Sunday, Holidays								
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																One day a week, Year-end and new-year holidays								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

D.2.9 Sports and amusement building

Category	No.	Sa-1	Building	Sports and amusement building	Space/ZONE	Exercise room of sports club
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General		Space heating & cooling					Ventilation for unconditioned space			Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	3991	20.0	43.5	0.3	10.0	7.5	0	0.0	3991	750	307		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humd.(%)	Set-back operation Temp.(deg) humd.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	189	a 10 23 (13)	Heating season	w1 22 40 - -	a - - (0)			a 10 23 (13)					
b	118	b 10 23 (13)	Cooling season	s1 26 50 - -	b - - (0)		[1/h]	b 10 23 (13)	[m]	[L/person-day]			
c	58	c - - (0)	Intermediate season	m1 24 50 - -	c - - (0)		5	c - - (0)	0	62.0			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday, Sunday, Holidays																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		One day a week, Year-end and new-year holidays																									
		Time																									
Simultaneous usage ratio																											
Int. heat gain due to lighting																											
Int. heat gain due to occupants																											
Int. heat gain due to appliances																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	60	100	100	100	60	60		0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	100	100	100	60	60	0			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday, Sunday, Holidays		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	60	60	60	60	100	100	100	100	100	60	60		0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	60	60	60	60	100	100	100	100	100	60	60		0	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	One day a week, Year-end and new-year holidays		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Athletic room, training room, shower room, changing room
note	Service hot water usage for shower and bath is assumed.

Category	No.	Sa-2	Building	Sports and amusement building	Space/ZONE	Lobby of sports club
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>E</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4298	15.0	11.9	0.1	0.0	2.5	0	0.0	3991	500	307	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	189	a 9 23 (14)	Heating season	w1	22 40	- -	a - - (0)	a 10 23 (13)	[m]	[L/person-day]		
b	118	b 9 23 (14)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]				
c	58	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)					

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	60	60	60		60	60	60	60	100	100	100	60	60
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily schedule b																Saturday, Sunday, Holidays									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	60	60	60	60	60	100	100	100	100	60	60	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily schedule c																One day a week, Year-end and new-year holidays									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Entrance lobby, front desk, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	Sa-3	Building	Sports and amusement building	Space/ZONE	Lavatory of sports club
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>E</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	4298	15.0	11.9	0.1	0.0	2.5	3991	40.5	3991	300	0
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage
a	189	a	9 23 (14)	Heating season	w1	22 40 - -	a 10 23 (13)		a 10 23 (13)		
b	118	b	9 23 (14)	Cooling season	s1	26 50 - -	b 10 23 (13)	[1/h]	b 10 23 (13)	[m]	-
c	58	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	15	c - - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	60	60	100	100	60		60	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday, Sunday, Holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	60	60	60	60	60	60	100	100	100	100		60	60
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								One day a week, Year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Sa-4	Building	Sports and amusement building	Space/ZONE	Smoking room of sports club
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days							
E		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]							
		4298	15.0	11.9	0.1	0.0	2.5	3991	81.0	3991	300	0							
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage						
a	189	a	9	23 (14)	Heating season	w1	22	40	-	-	a	10	23 (13)						
b	118	b	9	23 (14)	Cooling season	s1	26	50	-	-	b	10	23 (13)	[1/h]	b	10	23 (13)	[m]	-
c	58	c	-	- (0)	Intermediate season	m1	24	50	-	-	c	-	- (0)	30	c	-	- (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60	60	60	100	100	100	60	60	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday, Sunday, Holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	60	60	60	60	100	100	100	100	60	60	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	One day a week, Year-end and new-year holidays
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	Sa-5	Building	Sports and amusement building			Space/ZONE	Skating rink for official competition		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	1500	347	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a	9 21 (12)		
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b	9 21 (12)	[m]	[L/person-day]
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c	- - (0)	0	62.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50		50	50	80	80	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday, Sunday, Holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60		60	60	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																One day a month, Year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Arena for ice hockey, figure skating, speed skating
note	Maintained average illuminance 1500 is assumed

Category	No.	Sa-6	Building	Sports and amusement building			Space/ZONE	Gymnasium for official competition			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water										
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days											
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]											
	4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	1000	347											
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage									
a	229	a	8	21 (13)	Heating season	w1	22	40	-	-	a	-	-	(0)	-	-	(12)	[m]	[L/person-day]			
b	118	b	8	21 (13)	Cooling season	s1	26	50	-	-	b	-	-	(0)	[1/h]	b	9	21 (12)	0	62.0		
c	18	c	-	-	(0)	Intermediate season	m1	24	50	-	-	c	-	-	(0)	5	c	-	-	(0)	0	62.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50		50	50	80	80	80	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday, Sunday, Holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60		60	60	100	100	100	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																One day a month, Year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Arena for basketball, gymnastic performance, judo, kendo, fencing
note	Maintained average illuminance 1000 is assumed

Category	No.	Sa-7	Building	Sports and amusement building	Space/ZONE	Skating rink for general competition
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	750	347	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	229	a 8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)				
b	118	b 8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	[m]	[L/person-day]		
c	18	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c - - (0)	0	62.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	0	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	50	50	80	80		80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday, Sunday, Holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60	60	60	60	100	100		100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								One day a month, Year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Arena for ice hockey, figure skating, speed skating
note	Maintained average illuminance 750 is assumed

Category	No.	Sa-8	Building	Sports and amusement building			Space/ZONE	Gymnasium for general competition			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	500	347	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)			
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	[m]	[L/person-day]	
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c - - (0)	0	62.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday, Sunday, Holidays																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		One day a month, Year-end and new-year holidays																									
		Time																									
Simultaneous usage ratio																											
Int. heat gain due to lighting																											
Int. heat gain due to occupants																											
Int. heat gain due to appliances																											
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	80	80	80	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday, Sunday, Holidays		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60	60	60	100	100	100	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	One day a month, Year-end and new-year holidays		
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Arena for basketball, gymnastic performance, judo, kendo, fencing
note	Maintained average illuminance 500 is assumed

Category	No.	Sa-9	Building	Sports and amusement building			Space/ZONE	Skating rink for recreation		
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	300	347	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a	9 21 (12)		
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b	9 21 (12)	[m]	[L/person-day]
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c	- - (0)	0	62.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50		50	50	80	80	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday, Sunday, Holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60		60	60	100	100	100	100	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																One day a month, Year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Arena for ice hockey, figure skating, speed skating
note	Maintained average illuminance 300 is assumed

Category	No.	Sa-10	Building	Sports and amusement building	Space/ZONE	Gymnasium for recreation
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>D</i>		[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
		4511	60.0	14.5	0.1	0.0	12.5	0	0.0	4164	200	347
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.[deg] humi[%]	Set-back operation Temp.[deg] humi[%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)			
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	[m]	[L/person-day]	
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	5	c - - (0)	0	62.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	12	13	14	15	16		17	18	19	20	21	22	23		
																							Week days		
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0		0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	0	0		0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	50	50	50	80	80	80	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																							Saturday, Sunday, Holidays		
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	80	80	60	60	60	60	60	100	100	100	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
																							One day a month, Year-end and new-year holidays		
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Arena for basketball, gymnastic performance, judo, kendo, fencing
note	Maintained average illuminance 200 is assumed

Category	No.	Sa-11	Building	Sports and amusement building	Space/ZONE	Spectator stand of gymnasium or skating rink
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General	Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
	Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
D	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	4511	20.0	58.0	0.4	0.0	10.0	0	0.0	4164	75	347	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	229	a 8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)	[m]			
b	118	b 8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)		[L/person-day]		
c	18	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
																Week days									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40		40	40	40	40	40	40	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday, Sunday, Holidays									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	50	50	50	50	50	50	100	100	100	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																One day a month, Year-end and new-year holidays									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Audience seats
note	Maintained average illuminance 750 is assumed. Service hot water usage for lavatory is assumed.

Category	No.	<i>Sa-12</i>	Building	<i>Sports and amusement building</i>			Space/ZONE	<i>Lobby of gymnasium or skating rink</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	4511	15.0	11.9	0.1	0.0	2.5	0	0.0	4164	500	347
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a - - (0)		a 9 21 (12)		
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 9 21 (12)	[m]	[L/person-day]
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday, Sunday, Holidays																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		One day a month, Year-end and new-year holidays																									
		time	0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	<i>Waiting room, entrance hall</i>
note	<i>Maintained average illuminance 500 is assumed. Service hot water usage for lavatory is assumed.</i>

Category	No.	Sa-13	Building	Sports and amusement building	Space/ZONE	Lavatory of gymnasium or skating rink
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	4511	15.0	11.9	0.1	0.0	2.5	4164	40.5	4164	300	0	
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a 9 21 (12)		a 9 21 (12)			
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b 9 21 (12)	[1/h]	b 9 21 (12)	[m]	-	
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	15	c - - (0)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23			
Daily schedule a																								Week days			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	40	40	40		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday, Sunday, Holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100		0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								One day a month, Year-end and new-year holidays			
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23	
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	<i>Sa-14</i>	Building	<i>Sports and amusement building</i>			Space/ZONE	<i>Smoking room of gymnasium or skating rink</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	4511	15.0	11.9	0.1	0.0	2.5	4164	81.0	4164	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	229	a	8 21 (13)	Heating season	w1	22 40 - -	a	9 21 (12)		a	9 21 (12)	[m]	-
b	118	b	8 21 (13)	Cooling season	s1	26 50 - -	b	9 21 (12)	[1/h]	b	9 21 (12)	[m]	-
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	30	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied																															
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23																							
																																															Week days
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23																							
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0																							
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0																							
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	40	40	0	0	0																							
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
Daily schedule b																Saturday, Sunday, Holidays																															
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23																					
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	0	0	0																					
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	0	0	0																					
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	0	0	0																					
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							
Daily schedule c																One day a month, Year-end and new-year holidays																															
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23																					
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																					
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																					
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0																					
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																							

space/zone to be applied	<i>Smoking corner</i>
note	<i>Air change rate of 30 1/h is assumed.</i>

Category	No.	Sa-15	Building	Sports and amusement building	Space/ZONE	Spectator stand of racing course
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>D</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]
	3123	20.0	58.0	0.4	12.0	10.0	0	0.0	2776	500	347
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a 9 18 (9)	Heating season	w1	22 40 - -	a - - (0)		a 10 18 (8)	[m]		
b	118	b 9 18 (9)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b 10 18 (8)		[L/person-day]	
c	18	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c - - (0)	0	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday, Sunday, Holidays																								
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	One day a month, Year-end and new-year holidays																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	100	100	100	100	100	100	60	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0	

space/zone to be applied	Indoor auditorium
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Sa-16</i>	Building	<i>Sports and amusement building</i>			Space/ZONE	<i>Betting shop of racing course</i>			
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	3123	15.0	11.9	0.1	0.0	2.5	0	0.0	2776	500	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	229	a 9 18 (9)	Heating season	w1	22 40	- -	a - - (0)	-	a 10 18 (8)	[m]	-		
b	118	b 9 18 (9)	Cooling season	s1	26 50	- -	b - - (0)	[1/h]	b 10 18 (8)	[m]	-		
c	18	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	-	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	100	100	100	100		100	60	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday, Sunday, Holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	100	100	100	100		100	60	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																One day a month, Year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Ticket counter</i>
note	

Category	No.	Sa-17	Building	Sports and amusement building	Space/ZONE	Lobby of racing course
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	3123	15.0	11.9	0.1	0.0	2.5	0	0.0	2776	300	347	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	229	a	9 18 (9)	Heating season	w1	22 40 - -	a - - (0)		a	10 18 (8)	[m]	[L/person-day]
b	118	b	9 18 (9)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b	10 18 (8)		
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	-	c	- - (0)	0	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	100	100	100		100	100	60	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday, Sunday, Holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	100	100	100		100	100	60	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	One day a month, Year-end and new-year holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Holl, foyer, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Sa-18</i>	Building	<i>Sports and amusement building</i>			Space/ZONE	<i>Lavatory of racing course</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>D</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	3123	15.0	11.9	0.1	0.0	2.5	3123	40.5	2776	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	229	a	9 18 (9)	Heating season	w1	22 40 - -	a 9 18 (9)		a 10 18 (8)				
b	118	b	9 18 (9)	Cooling season	s1	26 50 - -	b 9 18 (9)	[1/h]	b 10 18 (8)	[m]	-		
c	18	c	- - (0)	Intermediate season	m1	24 50 - -	c - - (0)	15	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Week days																										
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	Saturday, Sunday, Holidays																										
	Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
		One day a month, Year-end and new-year holidays																									
		time	0	1	2	3	4	5	6	7	8	9	10	11	12			13	14	15	16	17	18	19	20	21	22
Simultaneous usage ratio		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0			
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	100	100	100	100	100	60	0	0	0	0	0	0			
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			

space/zone to be applied	<i>Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

Category	No.	Sa-19	Building	Sports and amusement building	Space/ZONE	Smoking room of racing course
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	3123	15.0	11.9	0.1	0.0	2.5	3123	81.0	2776	300	0
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a 9 18 (9)	Heating season	w1	22 40 - -	a 9 18 (9)		a 10 18 (8)			
b	118	b 9 18 (9)	Cooling season	s1	26 50 - -	b 9 18 (9)	[1/h]	b 10 18 (8)	[m]	-	
c	18	c - - (0)	Intermediate season	m1	24 50 - -	c - - (0)	30	c - - (0)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Week days																							
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	Saturday, Sunday, Holidays																							
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	One day a month, Year-end and new-year holidays																							
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	100	100	100	100	100	60	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	Sa-20	Building	Sports and amusement building	Space/ZONE	Bowling alley
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General	Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water	
	Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	5475	15.0	14.5	0.1	15.0	2.5	5110	40.5	5110	400	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	9 24 (15)	Heating season	w1	22 40 - -	a	10 24 (14)		a	10 24 (14)	[m]	[L/person-day]
b	51	b	9 24 (15)	Cooling season	s1	26 50 - -	b	10 24 (14)	[1/h]	b	10 24 (14)	0	3.8
c	73	c	9 24 (15)	Intermediate season	m1	24 50 - -	c	10 24 (14)	15	c	10 24 (14)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	50	50	50	40	40	40	40	40	80	80	80	40	40	40	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	50	50	50	40	40	40	40	40	80	80	80	40	40	40	
Daily schedule b																Saturday									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	70	70	70	100	100		100	100	100	80	80	80	40	40	40
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	70	70	70	100	100	100	100	100	80	80	80	40	40	40	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays									
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	70	70	70	100	100		100	100	100	80	80	80	40	40	40
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	70	70	70	100	100	100	100	100	80	80	80	40	40	40	

space/zone to be applied	bowling alley
note	Air change rate of 15 1/h is assumed. Service hot water usage for lavatory is assumed.

Category	No.	Sa-21	Building	Sports and amusement building	Space/ZONE	Karaoke room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	8760	15.0	58.0	0.4	5.0	10.0	8760	40.5	8760	400	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a - 24 (24)	Heating season	w1	22 40 - -	a - 24 (24)		a - 24 (24)	[m]	[L/person-day]		
b	51	b - 24 (24)	Cooling season	s1	26 50 - -	b - 24 (24)	[1/h]	b - 24 (24)	0	3.8		
c	73	c - 24 (24)	Intermediate season	m1	24 50 - -	c - 24 (24)	15	c - 24 (24)				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied							
	0	1	2	3	4	6	7	8	9	10	12	13	14	15	16		17	18	19	20	21	22	23
																Week days							
time	0	1	2	3	4	6	7	8	9	10	12	13	14	15	16		17	18	19	20	21	22	23
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100
Int. heat gain due to occupants	20	20	20	20	20	40	40	40	40	60	60	60	60	60	60	60	80	80	80	80	40	40	
Int. heat gain due to appliances	20	20	20	20	20	40	40	40	40	60	60	60	60	60	60	60	80	80	80	80	40	40	
Daily schedule b																Saturday							
	time	0	1	2	3	4	6	7	8	9	10	12	13	14	15		16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	20	20	20	20	20	60	60	60	60	60	100	100	100	100	100	100	100	100	60	60	60	60	
Int. heat gain due to appliances	20	20	20	20	20	60	60	60	60	60	100	100	100	100	100	100	100	100	60	60	60	60	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays							
	time	0	1	2	3	4	6	7	8	9	10	12	13	14	15		16	17	18	19	20	21	22
Simultaneous usage ratio	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
Int. heat gain due to occupants	20	20	20	20	20	60	60	60	60	60	100	100	100	100	100	100	100	100	60	60	60	60	
Int. heat gain due to appliances	20	20	20	20	20	60	60	60	60	60	100	100	100	100	100	100	100	100	60	60	60	60	

space/zone to be applied	Internet café
note	Air change rate of 15 1/h is assumed. Service hot water usage for lavatory is assumed.

Category	No.	Sa-22	Building	Sports and amusement building	Space/ZONE	Pachinko or slot machine hall
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days								
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]								
	5110	60.0	72.5	0.5	100.0	25.0	4745	40.5	4745	1000	365								
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage								
a	241	a	9	23 (14)	Heating season	w1	22	40	-	-	a	10	23 (13)						
b	51	b	9	23 (14)	Cooling season	s1	26	50	-	-	b	10	23 (13)	[1/h]	b	10	23 (13)	[m]	[L/person-day]
c	73	c	9	23 (14)	Intermediate season	m1	24	50	-	-	c	10	23 (13)	15	c	10	23 (13)	0.8	3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	70	70	70	50	50	50	50	50	50	80	80	80	80		40	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	70	70	70	50	50	50	50	50	50	80	80	80	80	40	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	80	50	50	50	50	50	50	100	100	100	100		100	60
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	80	80	80	50	50	50	50	50	100	100	100	100	100	60	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	80	80	80	50	50	50	50	50	50	100	100	100	100		100	60
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	80	80	80	50	50	50	50	50	100	100	100	100	100	60	0		

space/zone to be applied	pinball parlor, game parlor
note	Air change rate of 15 1/h is assumed. Service hot water usage for lavatory is assumed.

Category	No.	Sa-23	Building	Sports and amusement building	Space/ZONE	Bath hall of bathhouse
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	5475	10.0	23.8	0.2	0.0	5.0	5110	13.5	5110	300	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 23 (15)	Heating season	w1	22 40 - -	a 9 23 (14)		a 9 23 (14)			
b	118	b	8 23 (15)	Cooling season	s1	26 50 - -	b 9 23 (14)	[1/h]	b 9 23 (14)	[m]	[L/person-day]	
c	18	c	8 23 (15)	Intermediate season	m1	24 50 - -	c 9 23 (14)	5	c 9 23 (14)	0	300.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	80	80	80		80	40
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday, Sunday, Holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								One day a month, Year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Sauna room
note	Service hot water usage for bath house is assumed.

Category	No.	Sa-24	Building	Sports and amusement building	Space/ZONE	Changing room of bathhouse
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water						
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days								
D	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]								
	5475	10.0	23.8	0.2	0.0	5.0	5110	13.5	5110	300	365								
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage								
a	229	a	8	23 (15)	Heating season	w1	22	40	-	-	a	9	23 (14)						
b	118	b	8	23 (15)	Cooling season	s1	26	50	-	-	b	9	23 (14)	[1/h]	b	9	23 (14)	[m]	[L/person-day]
c	18	c	8	23 (15)	Intermediate season	m1	24	50	-	-	c	9	23 (14)	5	c	9	23 (14)	0	300.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40		40	40	80	80	80	80	40	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday, Sunday, Holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	80	80	80	80	80		80	80	100	100	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																One day a month, Year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	50	50	80	80	80	80	80		80	80	100	100	80	80	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	changing room, locker room
note	Service hot water usage for bath house is assumed.

Category	No.	Sa-25	Building	Sports and amusement building	Space/ZONE	Lounge of bathhouse
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	5475	10.0	23.8	0.2	0.0	5.0	5110	13.5	5110	200	365	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 23 (15)	Heating season	w1	22 40 - -	a 9 23 (14)		a 9 23 (14)			
b	118	b	8 23 (15)	Cooling season	s1	26 50 - -	b 9 23 (14)	[1/h]	b 9 23 (14)	[m]	[L/person-day]	
c	18	c	8 23 (15)	Intermediate season	m1	24 50 - -	c 9 23 (14)	5	c 9 23 (14)	0	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	80	80	80		80	40
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday, Sunday, Holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								One day a month, Year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Rest room, game room, massage room
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Sa-26</i>	Building	<i>Sports and amusement building</i>			Space/ZONE	<i>Lobby of bathhouse</i>		
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water				
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]						
	<i>5475</i>	<i>10.0</i>	<i>23.8</i>	<i>0.2</i>	<i>0.0</i>	<i>5.0</i>	<i>0</i>	<i>0.0</i>	<i>5110</i>	<i>500</i>	<i>365</i>						
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage				
a	<i>229</i>	a	<i>8 23 (15)</i>	Heating season	<i>w1</i>	<i>22 40</i>	-	-	a	-	-	<i>(0)</i>	a	<i>9 23 (14)</i>	[m]	[L/person-day]	
b	<i>118</i>	b	<i>8 23 (15)</i>	Cooling season	<i>s1</i>	<i>26 50</i>	-	-	b	-	-	<i>(0)</i>	[1/h]	b	<i>9 23 (14)</i>	<i>0</i>	<i>3.8</i>
c	<i>18</i>	c	<i>8 23 (15)</i>	Intermediate season	<i>m1</i>	<i>24 50</i>	-	-	c	-	-	<i>(0)</i>	-	c	<i>9 23 (14)</i>	<i>0</i>	<i>3.8</i>

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	80	80	80		80	40
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																								Saturday, Sunday, Holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																								One day a month, Year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	80	100	100	100		80	80
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Waiting room, entrance hall</i>
note	<i>Service hot water usage for lavatory is assumed.</i>

Category	No.	Sa-27	Building	Sports and amusement building	Space/ZONE	Lavatory of bathhouse
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>D</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	5475	15.0	23.8	0.2	0.0	5.0	5110	40.5	5110	300	0	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	229	a	8 23 (15)	Heating season	w1	22 40 - -	a 9 23 (14)		a 9 23 (14)			
b	118	b	8 23 (15)	Cooling season	s1	26 50 - -	b 9 23 (14)	[1/h]	b 9 23 (14)	[m]	-	
c	18	c	8 23 (15)	Intermediate season	m1	24 50 - -	c 9 23 (14)	15	c 9 23 (14)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday, Sunday, Holidays																								
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	One day a month, Year-end and new-year holidays																								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	40	80	80	80	80	40	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Sa-28	Building	Sports and amusement building			Space/ZONE	Smoking room of bathhouse			
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water								
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days										
<i>D</i>		[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]										
		5475	15.0	23.8	0.2	0.0	5.0	5110	81.0	5110	300	0										
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage								
a	229	a	8	23	(15)	Heating season	w1	22	40	-	-	a	9	23	(14)							
b	118	b	8	23	(15)	Cooling season	s1	26	50	-	-	b	9	23	(14)	[1/h]	b	9	23	(14)	[m]	-
c	18	c	8	23	(15)	Intermediate season	m1	24	50	-	-	c	9	23	(14)	30	c	9	23	(14)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Week days
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants		0	0	0	0	0	0	0	0	0	40	40	40	40	40	40	40	40	40	80	80	80	80	40	0	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Saturday, Sunday, Holidays
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants		0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	100	100	100	80	80	0	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
time		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	One day a month, Year-end and new-year holidays
Simultaneous usage ratio		0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to lighting		0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100	0	
Int. heat gain due to occupants		0	0	0	0	0	0	0	0	0	50	50	50	80	80	80	80	80	80	100	100	100	80	80	0	
Int. heat gain due to appliances		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

D.2.10 Theatre building

Category	No.	Th-1	Building	Theatre building	Space/ZONE	Auditorium of theatre
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General	Space heating & cooling						Ventilation for unconditioned space		Lighting		Domestic hot water
	Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance
<i>F</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]
	2510	50.0	145.0	1.0	0.0	25.0	0	0.0	2259	300	251
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a 132	a 10 20 (10)	Heating season	w1	22 40 - -	- -	a - - (0)	-	a 11 20 (9)	[m]	[L/person-day]	
b 119	b 10 20 (10)	Cooling season	s1	26 50 - -	- -	b - - (0)	[1/h]	b 11 20 (9)	0	3.8	
c 114	c - - (0)	Intermediate season	m1	24 50 - -	- -	c - - (0)	-	c - - (0)			

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22
Daily schedule a	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40	40	40	80	80	80	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Days to be applied	Week days																							
Daily schedule b	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	50	50	50	50	50	100	100	100	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Days to be applied	Saturday, Sunday, Holidays																							
Daily schedule c	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Days to be applied	Two weeks a month																							

space/zone to be applied	Audience seats
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Th-2</i>	Building	<i>Theatre building</i>	Space/ZONE	<i>Stage of theatre</i>
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>F</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	<i>2510</i>	<i>50.0</i>	<i>145.0</i>	<i>1.0</i>	<i>0.0</i>	<i>25.0</i>	<i>0</i>	<i>0.0</i>	<i>2259</i>	<i>500</i>	<i>251</i>	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	<i>132</i>	a	<i>10 20 (10)</i>	Heating season	<i>w1</i>	<i>22 40 - -</i>	a	<i>- - (0)</i>	a	<i>11 20 (9)</i>	[m]	[L/person-day]
b	<i>119</i>	b	<i>10 20 (10)</i>	Cooling season	<i>s1</i>	<i>26 50 - -</i>	b	<i>- - (0)</i>	b	<i>11 20 (9)</i>		
c	<i>114</i>	c	<i>- - (0)</i>	Intermediate season	<i>m1</i>	<i>24 50 - -</i>	c	<i>- - (0)</i>	c	<i>- - (0)</i>	<i>0</i>	<i>3.8</i>

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	80	80	80	80	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	50	50	50	50	100	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>stage, trap room</i>
note	<i>Service hot water usage for lavatory is assumed.</i>

Category	No.	Th-3	Building	Theatre building	Space/ZONE	Backstage of theatre
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water		
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
F	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	2761	25.0	29.0	0.2	0.0	5.0	0	0.0	2510	500	251		
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	132	a	9 20 (11)	Heating season	w1	22 40 - -	a	- - (0)	-	a	10 20 (10)	[m]	[L/person-day]
b	119	b	9 20 (11)	Cooling season	s1	26 50 - -	b	- - (0)	[1/h]	b	10 20 (10)	0.8	3.8
c	114	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	-	c	- - (0)		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	60	60	60	60	60	60		60	60	60	60	60	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	60	100	100		100	100	100	60	60	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday, Sunday, Holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	60	60	60	100	100		100	100	100	60	60	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Two weeks a month																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	anteroom, waiting room, rehearsal room, costume room, stage setting room
note	Service hot water usage for lavatory is assumed.

Category	No.	Th-4	Building	Theatre building	Space/ZONE	Lobby of theatre
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
<i>F</i>	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	2510	15.0	23.8	0.2	0.0	5.0	0	0.0	2259	300	251	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage
a	132	a	10 20 (10)	Heating season	w1	22 40 - -	a	- - (0)		a	11 20 (9)	
b	119	b	10 20 (10)	Cooling season	s1	26 50 - -	b	- - (0)	[1/h]	b	11 20 (9)	[m]
c	114	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	-	c	- - (0)	0
												3.8

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
																Week days									
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	80	80	80	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																Saturday, Sunday, Holidays									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100	100	100	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	50	50		50	50	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																Two weeks a month									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Holl, foyer, waiting room, booking office, shop
note	Service hot water usage for lavatory is assumed.

Category	No.	Th-5	Building	Theatre building	Space/ZONE	Lavatory of theatre
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
F	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2510	15.0	23.8	0.2	0.0	5.0	2259	40.5	2259	300	0	
Total number of days of each daily schedule (day)	Time of start & end normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi(%)	Set-back operation Temp.(deg) humi(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	132	a	10 20 (10)	Heating season	w1	22 40 - -	a	11 20 (9)	a	11 20 (9)	[m]	-
b	119	b	10 20 (10)	Cooling season	s1	26 50 - -	b	11 20 (9)	b	11 20 (9)	[m]	-
c	114	c	- - (0)	Intermediate season	m1	24 50 - -	c	- - (0)	c	- - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Week days																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	80	80	40	40		40	40	80	80	80	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Saturday, Sunday, Holidays																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100	100	100	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	100	100	50	50		50	50	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	Two weeks a month																								
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Th-6	Building	Theatre building	Space/ZONE	Smoking room of theatre
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
<i>F</i>	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	2510	15.0	23.8	0.2	0.0	5.0	2259	81.0	2259	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp. [deg] humi. [%]	Set-back operation Temp. [deg] humi. [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	132	a 10 20 (10)	Heating season	w1	22 40	- -	a 11 20 (9)			a 11 20 (9)	[m]		
b	119	b 10 20 (10)	Cooling season	s1	26 50	- -	b 11 20 (9)	[1/h]		b 11 20 (9)		-	
c	114	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	30		c - - (0)	0	0.0	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied									
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
																Week days									
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	80	80	40	40	40		40	80	80	80	0	0	0	0	
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																Saturday, Sunday, Holidays									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	100	100	100	100	100		100	100	100	100	100	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	100	100	100	100		100	100	100	100	100	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	100	100	50	50		50	50	100	100	100	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																Two weeks a month									
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

Category	No.	Th-7	Building	Theatre building	Space/ZONE	Auditorium of movie theatre
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	5840	15.0	145.0	1.0	0.0	25.0	0	0.0	1095	300	365		
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage			
a	241	a 8 24 (16)	Heating season	w1 22 40 - -	a - - (0)	(0)	a 8 24 (3)	[m]					
b	51	b 8 24 (16)	Cooling season	s1 26 50 - -	b - - (0)	[1/h]	b 8 24 (3)	[L/person-day]					
c	73	c 8 24 (16)	Intermediate season	m1 24 50 - -	c - - (0)	-	c 8 24 (3)	0	3.8				

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
																Week days										
time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22	23	
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0		0	0	0	0	0	0	0	0	0	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	40	40	40		40	40	40	60	60	60	60	30	30	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0		0	0	0	0	0	0	0	0	0	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	70	70	70		70	70	70	100	100	100	100	50	50	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays										
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13		14	15	16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	0	0	0	0	0		0	0	0	0	0	0	0	0	0	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	70	70	70		70	70	70	100	100	100	100	50	50	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	Audience seats, projection room, monitor room, adjustment room
note	Service hot water usage for lavatory is assumed.

Category	No.	<i>Th-8</i>	Building	<i>Theatre building</i>	Space/ZONE	<i>Lobby of movie theatre</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	5840	15.0	11.9	0.1	0.0	2.5	0	0.0	5475	300	365		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 24 (16)	Heating season	w1	22 40 - -	a - - (0)		a	9 24 (15)			
b	51	b	8 24 (16)	Cooling season	s1	26 50 - -	b - - (0)	[1/h]	b	9 24 (15)	[m]		
c	73	c	8 24 (16)	Intermediate season	m1	24 50 - -	c - - (0)	-	c	9 24 (15)	0		
											3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	60	60	60	60	40	40	40		40	40	60	60	60	60	30	30
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b																Saturday								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	70	70	70		70	70	100	100	100	100	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c																Sunday, Holidays, year-end and new-year holidays								
	time	0	1	2	3	4	6	7	8	9	10	11	12	13	14		15	16	17	18	19	20	21	22
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	70	70	70		70	70	100	100	100	100	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Holl, foyer, waiting room, booking office</i>
note	<i>Service hot water usage for lavatory is assumed.</i>

Category	No.	Th-9	Building	Theatre building	Space/ZONE	Lavatory of movie theatre
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	5840	15.0	23.8	0.2	0.0	5.0	5475	40.5	5475	300	0		
Total number of days of each daily schedule (day)	Time of start & end of normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 24 (16)	Heating season	w1	22 40 - -	a	9 24 (15)		a	9 24 (15)		
b	51	b	8 24 (16)	Cooling season	s1	26 50 - -	b	9 24 (15)	[1/h]	b	9 24 (15)	[m]	-
c	73	c	8 24 (16)	Intermediate season	m1	24 50 - -	c	9 24 (15)	15	c	9 24 (15)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied										
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23		
Daily schedule a																								Week days		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	60	60	60	60	40	40	40	40	40	40	60	60	60		30	30
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule b																								Saturday		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	70	70	70	70	70	70	100	100	100		100	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Daily schedule c																								Sunday, Holidays, year-end and new-year holidays		
	time	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		22	23
	Simultaneous usage ratio	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100		100	100
	Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	100	70	70	70	70	70	70	100	100	100		100	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	<i>Th-10</i>	Building	<i>Theatre building</i>	Space/ZONE	<i>Smoking room of movie theatre</i>
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]		
	5840	15.0	23.8	0.2	0.0	5.0	5475	81.0	5475	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp. [deg] humi [%]	Set-back operation Temp. [deg] humi [%]	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	241	a	8 24 (16)	Heating season	w1	22 40 - -	a 9 24 (15)		a 9 24 (15)				
b	51	b	8 24 (16)	Cooling season	s1	26 50 - -	b 9 24 (15)	[1/h]	b 9 24 (15)	[m]	-		
c	73	c	8 24 (16)	Intermediate season	m1	24 50 - -	c 9 24 (15)	30	c 9 24 (15)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
	[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					Week days								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	60	60	60	60	40	40	40		40	40	60	60	60	60	30	30
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule b	[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					Saturday								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	100	100	100	100	70	70	70		70	70	100	100	100	100	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Daily schedule c	[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					[0, 0, 0, 0, 0]					Sunday, Holidays, year-end and new-year holidays								
time	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
Simultaneous usage ratio	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	100	100	100	100	100	100		100	100	100	100	100	100	100	100
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	100	100	100	70	70	70		70	70	100	100	100	100	50	50
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

space/zone to be applied	<i>Smoking corner</i>
note	<i>Air change rate of 30 1/h is assumed.</i>

D.2.11 Religious building

Category	No.	Re-1	Building	Religious building	Space/ZONE	Main hall of religious building
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days
F	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]
	2761	10.0	145.0	1.0	0.0	25.0	0	0.0	2510	300	251
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) hum(%)	Set-back operation Temp.(deg) hum(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage	
a	132	a 7 18 (11)	Heating season	w1 22 40 - -	a - - (0)	a - - (0)		a 8 18 (10)	[m]	[L/person-day]	
b	119	b 7 18 (11)	Cooling season	s1 26 50 - -	b - - (0)	b - - (0)	[1/h]	b 8 18 (10)			
c	114	c - - (0)	Intermediate season	m1 24 50 - -	c - - (0)	c - - (0)		c - - (0)	0.4	3.8	

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Week days				
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	80	80	80	80	80	40	40	40		40	40	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Saturday, Sunday, Holidays				
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	50	50	50		50	50	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Two weeks a month				
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0

space/zone to be applied	chantry, chapel
note	Service hot water usage for lavatory is assumed.

Category	No.	Re-2	Building	Religious building	Space/ZONE	Lobby
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
F	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	2761	15.0	23.8	0.2	0.0	5.0	0	0.0	2510	300	251	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	132	a 7 18 (11)	Heating season	w1 22 40	- -	a - - (0)		a 8 18 (10)				
b	119	b 7 18 (11)	Cooling season	s1 26 50	- -	b - - (0)	[1/h]	b 8 18 (10)	[m]	[L-person-day]		
c	114	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	-	c - - (0)	0	3.8		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Week days								
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	80	80	80	80	80	40	40	40		40	40	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Saturday, Sunday, Holidays								
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	50	50	50		50	50	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied								
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23
																Two weeks a month								
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0

space/zone to be applied	Holl, waiting room
note	Service hot water usage for lavatory is assumed.

Category	No.	Re-3	Building	Religious building	Space/ZONE	Lavatory
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting		Domestic hot water	
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
F	[hours/yr.]	[W/m ²]	[W/m ²]	[Person/m ²]	[W/m ²]	[m ³ /h·m ²]	[hours/yr.]	[m ³ /h·m ²]	[hours/yr.]	[lux]	[day]	
	2761	15.0	23.8	0.2	0.0	5.0	2510	40.5	2510	300	0	
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp. [deg] hum. [%]	Set-back operation Temp. [deg] hum. [%]	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (to total hours)	Height of working plane	Total daily usage
a	132	a 7 18 (11)	Heating season	w1	22 40	- -	a 8 18 (10)			a 8 18 (10)	[m]	
b	119	b 7 18 (11)	Cooling season	s1	26 50	- -	b 8 18 (10)	[1/h]		b 8 18 (10)		-
c	114	c - - (0)	Intermediate season	m1	24 50	- -	c - - (0)	15		c - - (0)	0	0.0

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	time																										
																Week days											
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	80	80	80	80	80	80	40	40		40	40	40	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	time																										
																Saturday, Sunday, Holidays											
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	100	0	0	0	0	0	0	0	
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	100	50	50		50	50	50	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied											
	time																										
																Two weeks a month											
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0

space/zone to be applied	Toilet (room), multi-purpose lavatory, washroom, rest room, W.C., powder room
note	Air change rate of 15 1/h is assumed.

Category	No.	Re-4	Building	Religious building	Space/ZONE	Smoking room
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General		Space heating & cooling					Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days	
F	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]	
	2761	15.0	23.8	0.2	0.0	5.0	2510	81.0	2510	300	0	
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage		
a	132	a 7 18 (11)	Heating season	w1 22 40	- -	a 8 18 (10)		a 8 18 (10)				
b	119	b 7 18 (11)	Cooling season	s1 26 50	- -	b 8 18 (10)	[1/h]	b 8 18 (10)	[m]	-		
c	114	c - - (0)	Intermediate season	m1 24 50	- -	c - - (0)	30	c - - (0)	0	0.0		

Daily schedule a	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Week days				
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	80	80	80	80	80	40	40	40		40	40	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Daily schedule b	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Saturday, Sunday, Holidays				
Simultaneous usage ratio	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100		100	100	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	100	100	100	100	100	50	50	50		50	50	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Daily schedule c	Hourly ratio of int. heat gain due to lighting					Hourly ratio of int. heat gain due to occupants					Hourly ratio of heat gain due to appliances					Days to be applied				
	0	1	2	3	4	6	7	8	9	10	11	12	13	14	15		16	17	18	19
																Two weeks a month				
Simultaneous usage ratio	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to lighting	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to occupants	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
Int. heat gain due to appliances	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0

space/zone to be applied	Smoking corner
note	Air change rate of 30 1/h is assumed.

D.2.12 Attached space or zone for assembly buildings

Category	No.	<i>At_As-1</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Kitchen</i>			
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	4000	135.0	4000	750	0						
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage							
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	(0)	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	(0)	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	(0)	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>caboose, inspection and receiving room, syringing room, pantry, service room</i>
note	<i>Air change rate of 50 1/h is assumed.</i>

Category	No.	<i>At_As-2</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Indoor parking garage</i>			
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water				
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days						
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]						
		0	-	-	-	-	-	4000	30.0	4000	150	0						
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)	Ventilation requirement rate	Time of start & end (total hours)	Height of working plane	Total daily usage							
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	(0)	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	(0)	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	(0)	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Parking, carriage porch, car barn</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>At_As-3</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Machine room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water			
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	8760	13.5	400	200	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage		
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>Air conditioning room, boiler room, fan room, pump room, gas container room</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>At_As-4</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Electric room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water			
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	8760	27.0	400	200	0					
Total number of days of each daily schedule [day]		Time of start & end for normal operation (hours)			Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage		
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>MDF room, CPU room, server room, PBX room, lift-motor room, battery room</i>
note	<i>electric machine with large heat emission and air change rate of 10 1/h are assumed.</i>

Category	No.	<i>At_As-5</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Kitchenette with hot water server</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	4000	13.5	2000	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a - - (0)	Heating season	0	- - - -	- -	a - - - (0)	-	a - - - (0)	-	-	-	-
b	51	b - - (0)	Cooling season	0	- - - -	- -	b - - - (0)	[1/h]	b - - - (0)	[m]	-	-	-
c	73	c - - (0)	Intermediate season	0	- - - -	- -	c - - - (0)	5	c - - - (0)	0.8	0.0	-	-

space/zone to be applied	<i>Pantry, refresh corner</i>
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>At_As-6</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting			Domestic hot water
Annual schedule	Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days		
A	[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]		
	0	-	-	-	-	-	4000	13.5	2000	300	0		
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)		Set-point	Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end [hours]		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage
a	241	a - - (0)	Heating season	0	- - - -	- -	a - - - (0)	-	a - - - (0)	-	-	-	-
b	51	b - - (0)	Cooling season	0	- - - -	- -	b - - - (0)	[1/h]	b - - - (0)	[m]	-	-	-
c	73	c - - (0)	Intermediate season	0	- - - -	- -	c - - - (0)	5	c - - - (0)	0	0.0	-	-

space/zone to be applied	
note	<i>Air change rate of 5 1/h is assumed.</i>

Category	No.	<i>At_As-7</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Printing room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water			
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	4000	27.0	2000	500	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage				
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0.8	0.0

space/zone to be applied	<i>Copy room</i>
note	<i>Air change rate of 10 1/h is assumed.</i>

Category	No.	<i>At_As-8</i>	Building	<i>Attached space or zone for assembly buildings</i>			Space/ZONE	<i>Garbage storage room</i>			
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General		Space heating & cooling						Ventilation for unconditioned space		Lighting				Domestic hot water			
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours	Ventilation requirement	Operation hours	maintained average illuminance	Total number of days					
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]	[m3/h·m2]	[hours/yr.]	[lux]	[day]					
		0	-	-	-	-	-	4000	40.5	2000	150	0					
Total number of days of each daily schedule [day]	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)		Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage				
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	[m]	-
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>garbage collection point, waste-collection point</i>
note	<i>Air change rate of 15 1/h is assumed.</i>

D.2.13 Warehouse building

Category	No.	<i>Fc-1</i>	Building	<i>Warehouse building</i>			Space/ZONE	<i>Storage room</i>		
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water								
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours			Ventilation requirement	Operation hours		maintained average illuminance	Total number of days							
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]			[m3/h·m2]	[hours/yr.]		[lux]	[day]							
		0	-	-	-	-	-	8760			37.5	8760		150	0							
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)			Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage								
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	-	-					
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	15	c	-	-	(0)	0	0.0

space/zone to be applied	
note	

Category	No.	<i>Fc-2</i>	Building	<i>Warehouse building</i>			Space/ZONE	<i>Outdoor parking garage</i>		
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General		Space heating & cooling						Ventilation for unconditioned space			Lighting			Domestic hot water								
Annual schedule		Operation hours	Ref. heat gain Lighting	Ref. int. heat gain Occupants	Ref. occupancy density	Ref. heat gain Appliances	Ventilation requirement	Operation hours			Ventilation requirement	Operation hours		maintained average illuminance	Total number of days							
A		[hours/yr.]	[W/m2]	[W/m2]	[Person/m2]	[W/m2]	[m3/h·m2]	[hours/yr.]			[m3/h·m2]	[hours/yr.]		[lux]	[day]							
		0	-	-	-	-	-	0			0.0	3000		150	0							
Total number of days of each daily schedule (day)	Time of start & end for normal operation (hours)	Set-point		Patterns	Normal operation Temp.(deg) humi.(%)	Set-back operation Temp.(deg) humi.(%)	Time of start & end (hours)			Ventilation requirement rate	Time of start & end (total hours)		Height of working plane	Total daily usage								
a	241	a	-	-	(0)	Heating season	0	-	-	-	-	a	-	-	(0)	-	-					
b	51	b	-	-	(0)	Cooling season	0	-	-	-	-	b	-	-	(0)	[1/h]	b	-	-	(0)	[m]	-
c	73	c	-	-	(0)	Intermediate season	0	-	-	-	-	c	-	-	(0)	-	c	-	-	(0)	0	0.0

space/zone to be applied	<i>bicycle-parking space</i>
note	<i>Maintained average illuminance 150 is assumed</i>

Annex E (informative)

Examples of building

E.1 General

Annex E provides examples of building with layouts of spaces and zones.

E.2 Examples of office building

E.2.1 Example no. 1

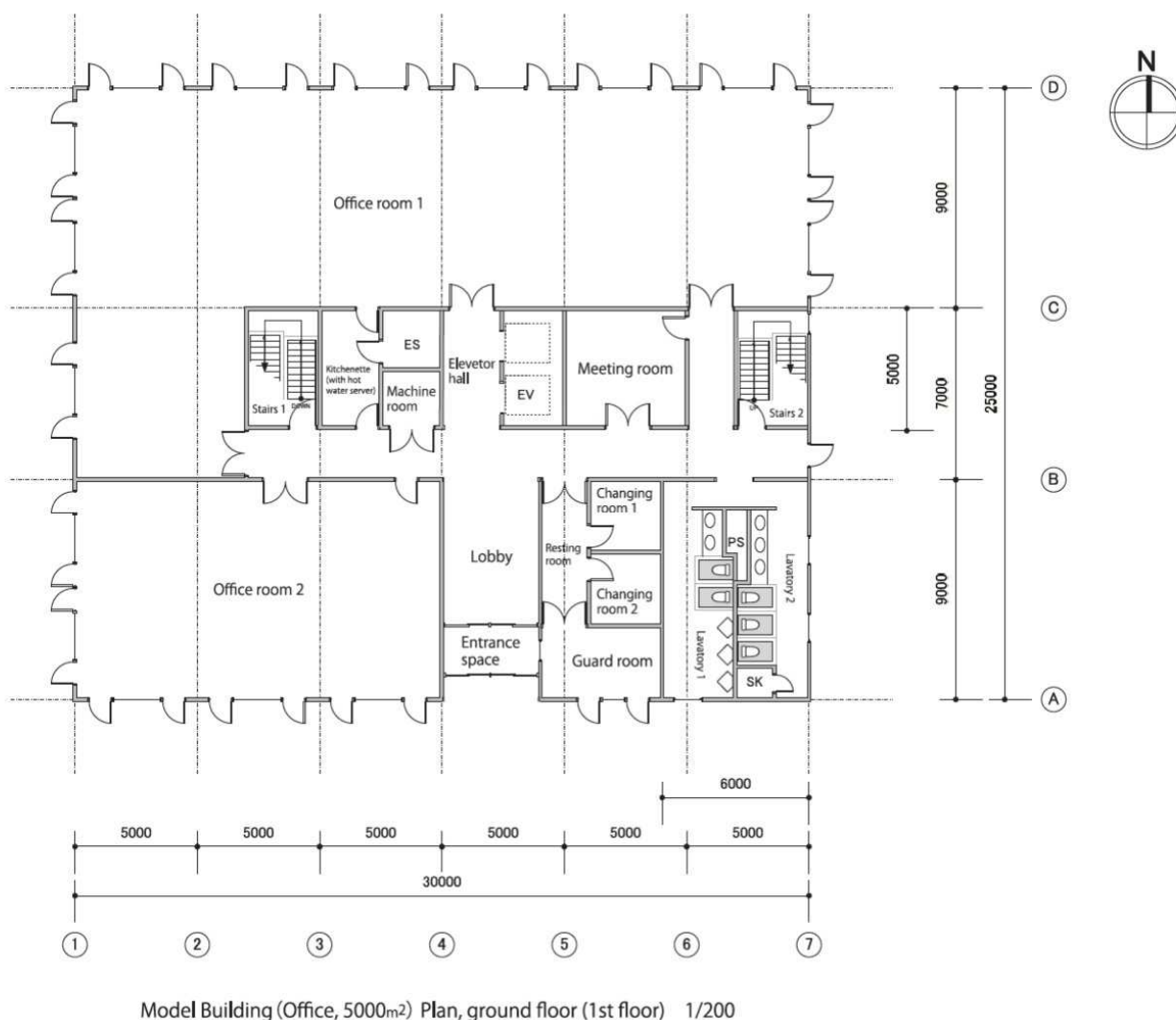


Figure E.1 — Model building (Office, 5 000 m²) plan, ground floor (first floor) 1/200

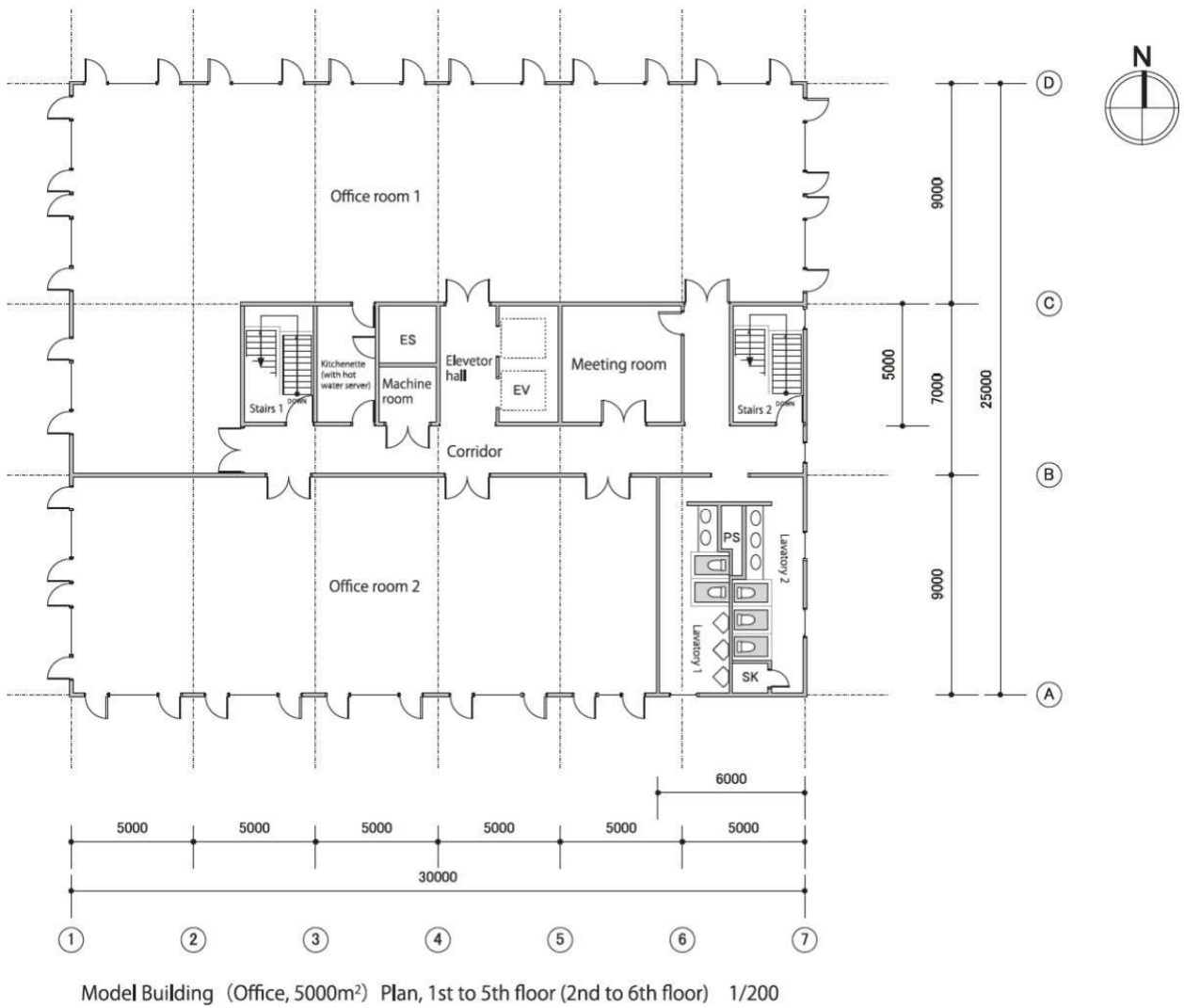


Figure E.2 — Model building (office, 5 000 m²) plan, 1st to 5th floor (2nd to 6th floor) 1/200

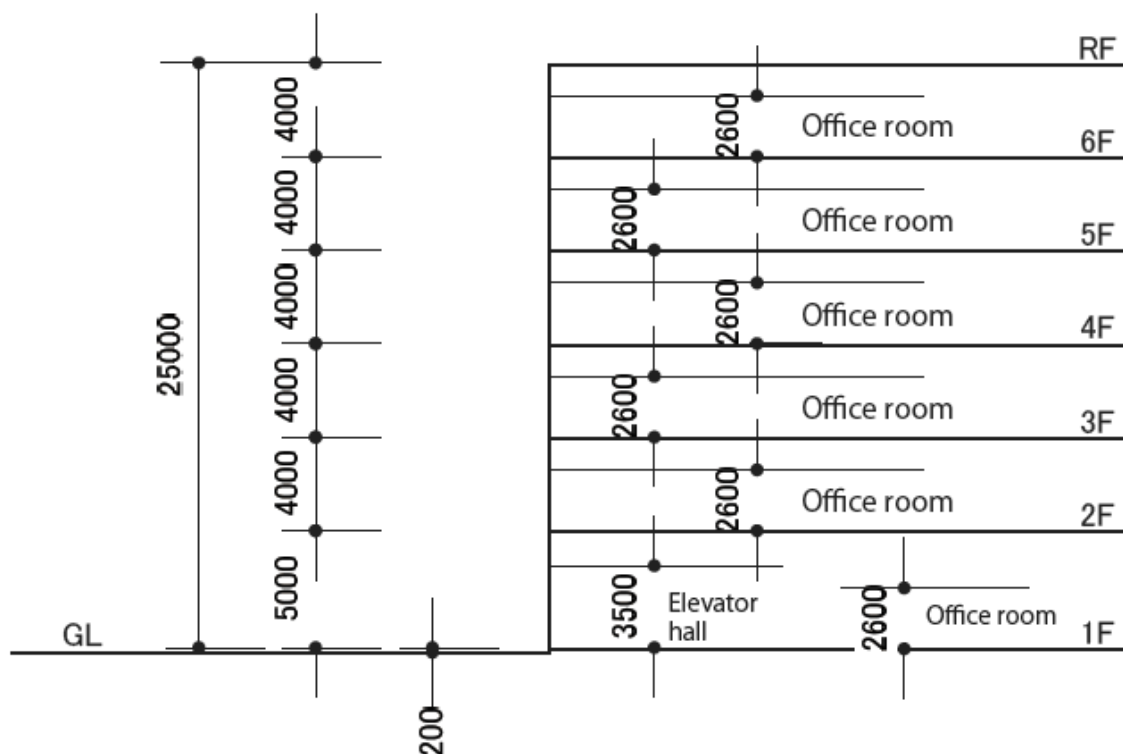
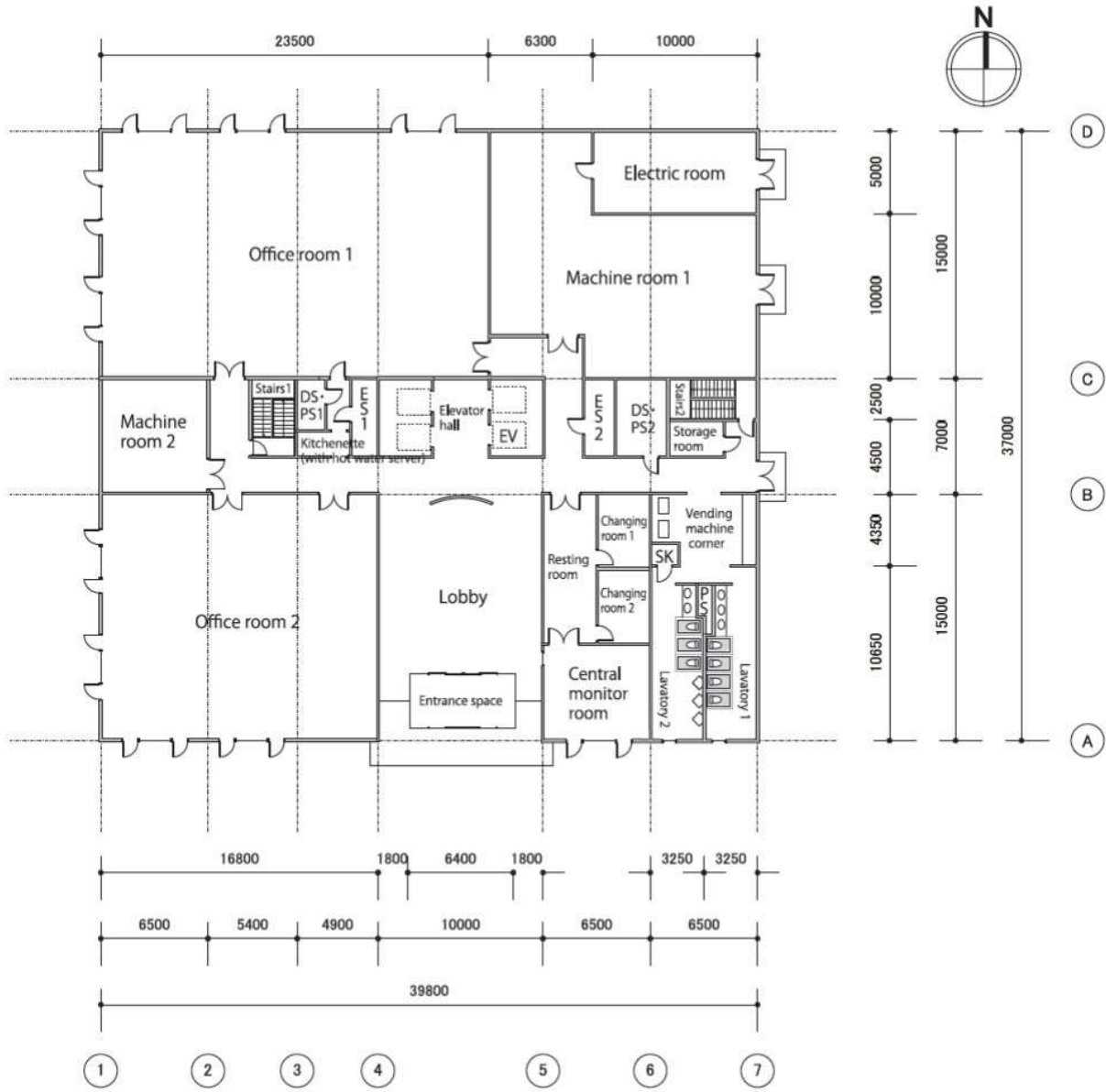

 Figure E.3 — Model building (office, 5 000 m²) section

 Table E.1 — Window size and layout (office, 5 000 m²)

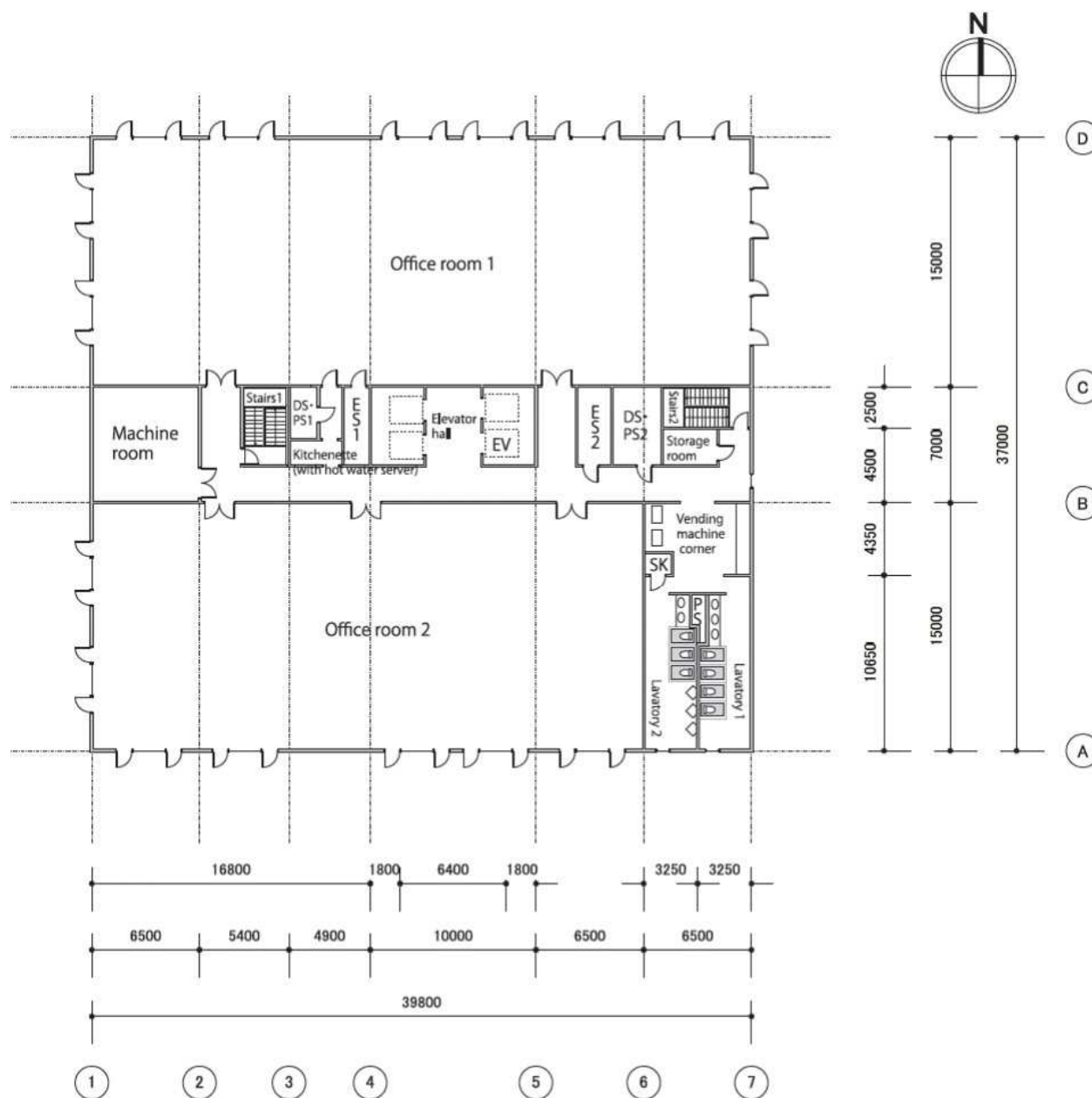
Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance space	S	1	0	4	3.5	14	14
1F	Guard room	S	1	0.9	2.8	1.7	4.76	4.76
1F	Lavatory 1	S	1	1.2	1.2	1.2	1.44	1.44
1F	Lavatory 2	E	2	1.2	1.2	1.2	1.44	2.88
1F	Stairs 2	E	1	–	0.9	0.5	0.45	0.45
1F	Office room 1	E	2	0.9	3.8	1.7	6.46	12.92
		N	6	0.9	3.8	1.7	6.46	38.76
		W	3	0.9	3.8	1.7	6.46	19.38
1F	Office room 2	W	2	0.9	3.8	1.7	6.46	12.92
		S	3	0.9	3.8	1.7	6.46	19.38
2~6F	Lavatory 1	S	1	1.2	1.2	1.2	1.44	1.44
2~6F	Lavatory 2	E	2	1.2	1.2	1.2	1.44	2.88
2~6F	Corridor	E	1	1.2	0.9	1.2	1.08	1.08
2~6F	Stairs 2	E	1	–	0.9	0.5	0.45	0.45
2~6F	Office room 1	E	2	0.9	3.8	1.7	6.46	12.92
		N	6	0.9	3.8	1.7	6.46	38.76
		W	3	0.9	3.8	1.7	6.46	19.38
2~6F	Office room 2	W	2	0.9	3.8	1.7	6.46	12.92
		S	4	0.9	3.8	1.7	6.46	25.84
		S	1	0.9	2.8	1.7	4.76	4.76
		S	1	0.9	2.8	1.7	4.76	4.76

E.2.2 Example no. 2



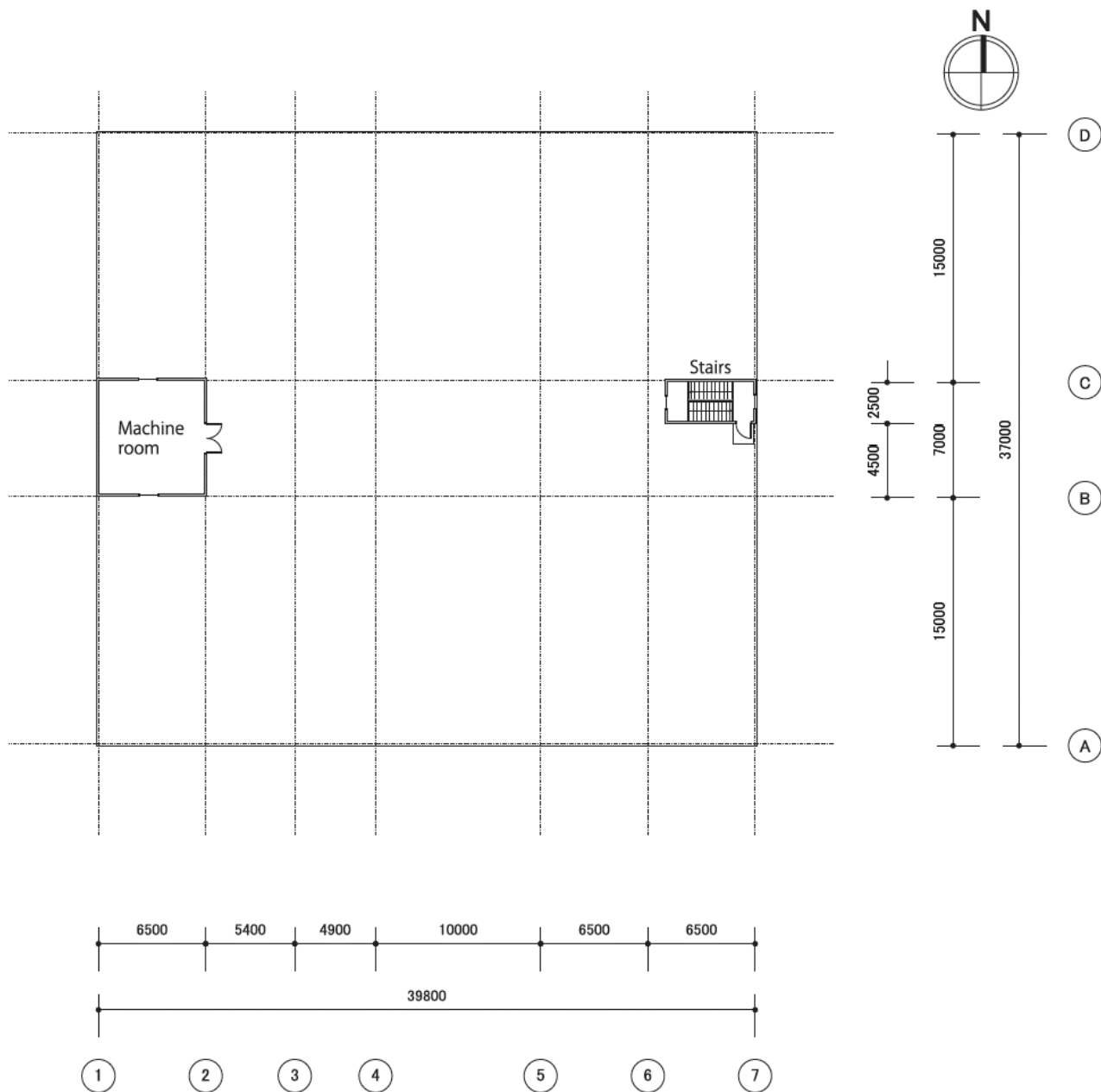
Model Building (Office, 10,000m²) plan, ground floor (1st floor)

Figure E.4 — Model building (office, 10 000 m²) plan, ground floor (first floor)



Model Building (Office, 10,000m²) plan, 1st to 6th floor (2nd to 7th floor)

Figure E.5 — Model building (office, 10 000 m²) plan, 1st to 6th floor (2nd to 7th floor)



Model Building (Office, 10,000m²) plan, roof (top floor)

Figure E.6 — Model building (office, 10 000 m²) plan, roof (top floor)

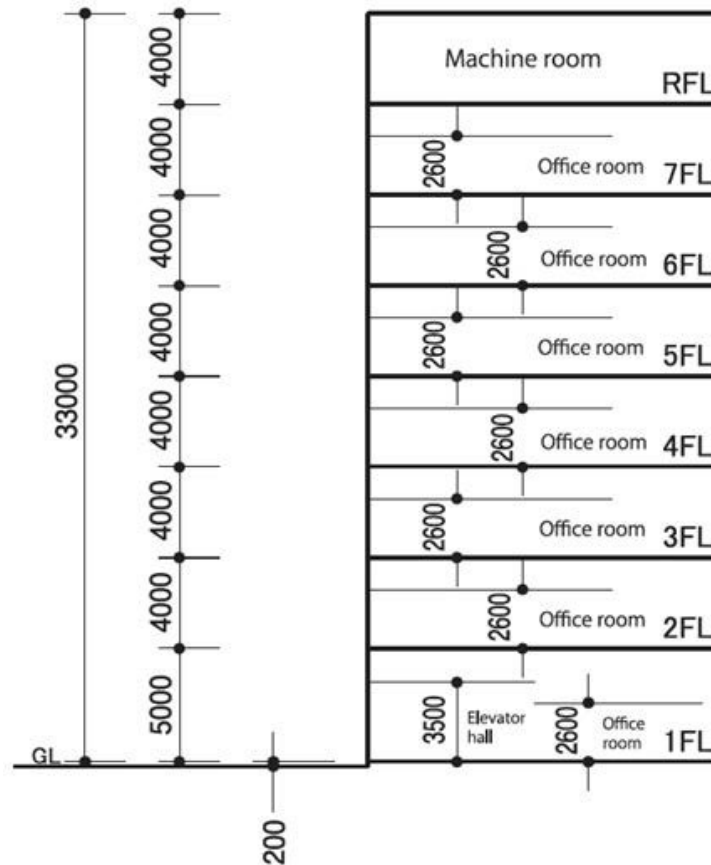
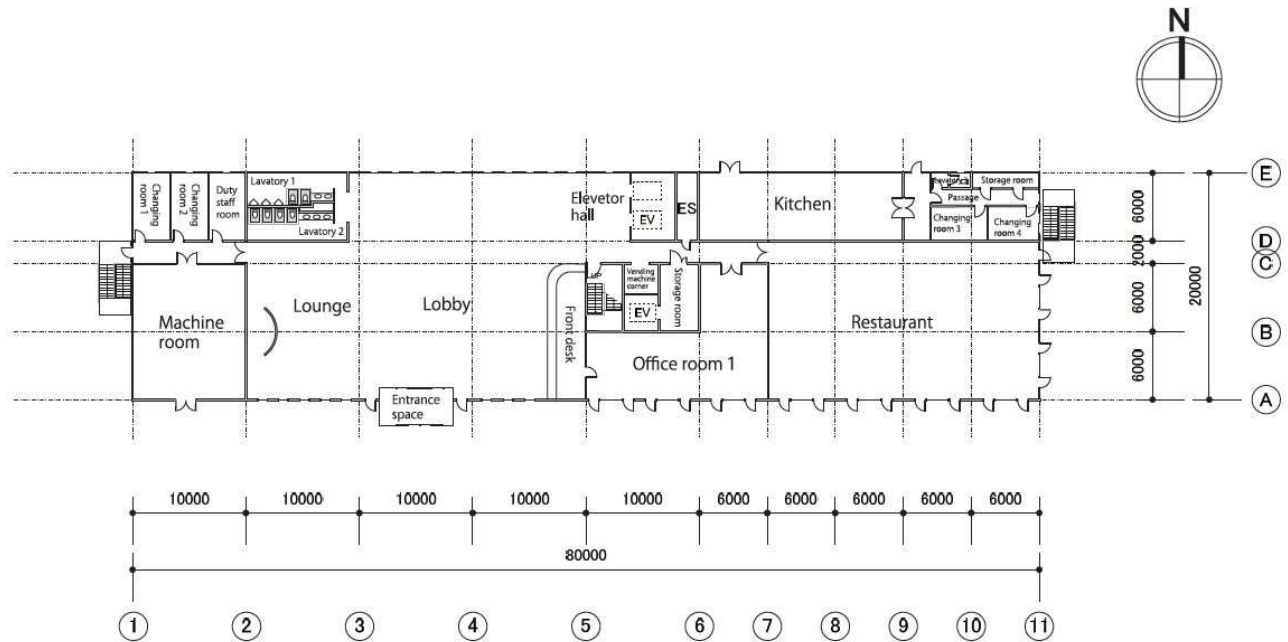

 Figure E.7 — Model building (office, 10 000 m²) section

 Table E.2 — Window size and layout (office, 10 000 m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Lobby	S	1	0	9.8	3.5	34.3	34.3
1F	Central monitor room	S	1	1.2	3.8	1.4	5.32	5.32
1F	Lavatory 1	S	1	1.2	0.9	1.2	1.08	1.08
1F	Lavatory 2	S	1	1.2	0.9	1.2	1.08	1.08
1F	Office room 1	N	3	1.2	3.8	1.4	5.32	15.96
		W	2	1.2	3.8	1.4	5.32	10.64
1F	Office room 2	S	2	1.2	3.8	1.4	5.32	10.64
		W	2	1.2	3.8	1.4	5.32	10.64
2~7F	Office room 1	W	2	1.2	3.8	1.4	5.32	10.64
		N	6	1.2	3.8	1.4	5.32	31.92
		E	2	1.2	3.8	1.4	5.32	10.64
2~7F	Office room 2	S	5	1.2	3.8	1.4	5.32	26.6
		W	2	1.2	3.8	1.4	5.32	10.64
2~7F	Lavatory 1	S	1	1.2	0.9	1.2	1.08	1.08
2~7F	Lavatory 2	S	1	1.2	0.9	1.2	1.08	1.08
RF	Machine room	N	1	1.2	1.2	1.2	1.44	1.44
		S	1	1.2	1.2	1.2	1.44	1.44
RF	Stairs	W	1	1.5	0.9	0.5	0.45	0.45
		E	1	1.5	0.9	0.5	0.45	0.45

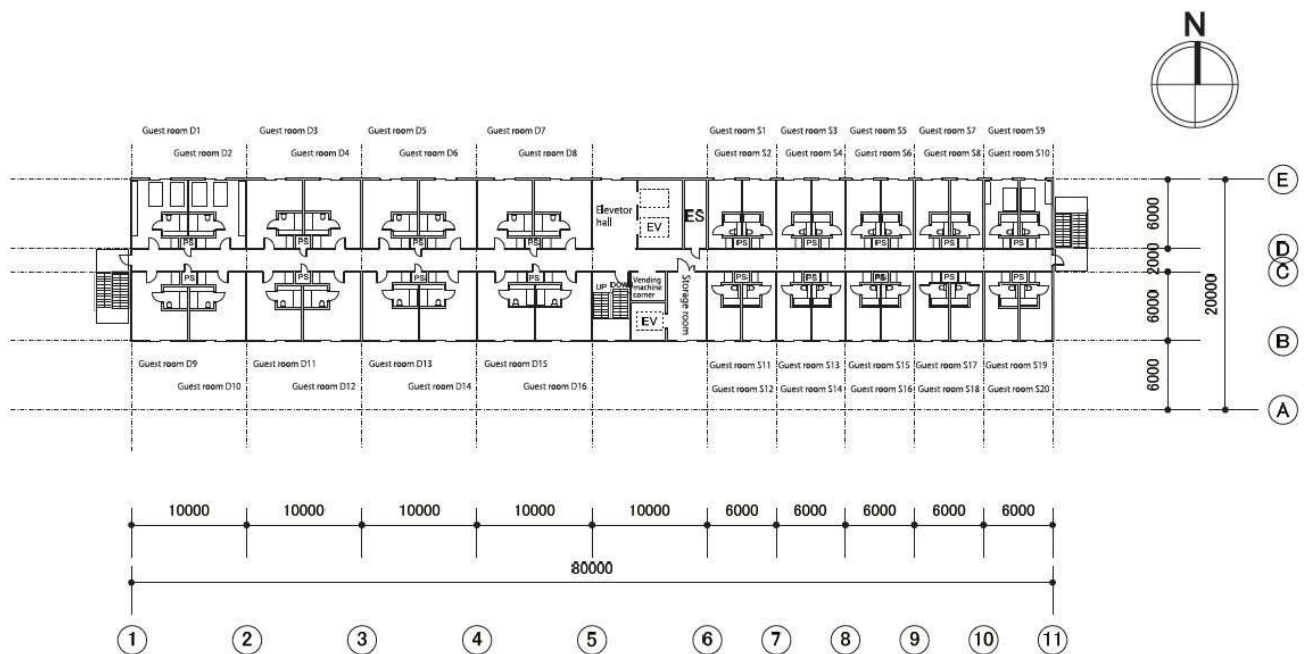
E.3 Examples of hotel building

E.3.1 Example no. 3



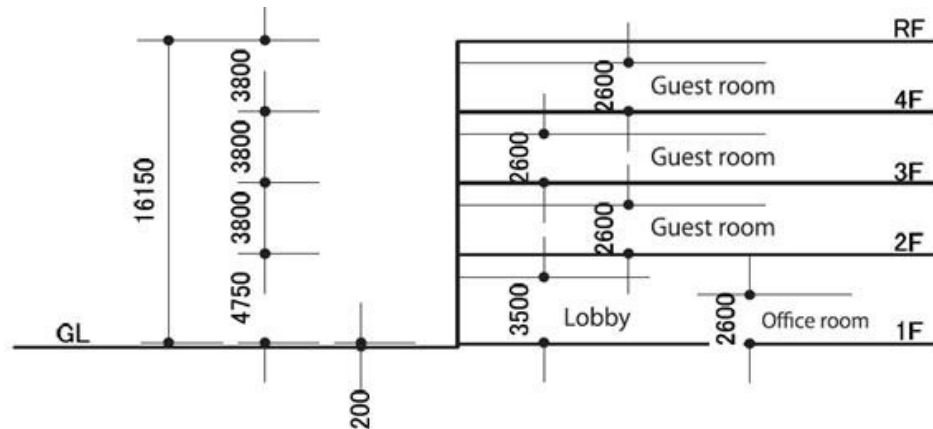
Model Building (Hotel, 5,000m²) plan, ground floor (1st floor) 1/500

Figure E.8 — Model building (hotel, 5 000 m²) plan, ground floor (first floor) 1/500



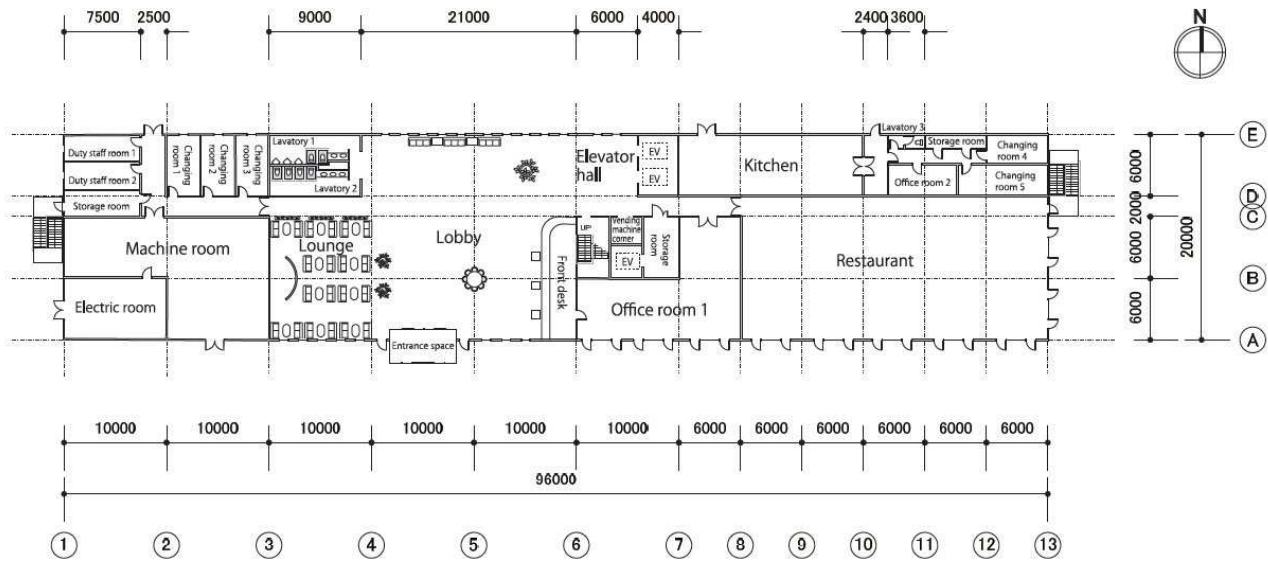
Model Building (Hotel, 5,000m²) plan, 1st to 3rd floor (2nd to 4th floor) 1/500

Figure E.9 — Model building (hotel, 5 000 m²) plan, first to fifth floor (second to sixth floor) 1/500

Figure E.10 — Model building (hotel, 5 000 m²) sectionTable E.3 — Window size and layout (hotel, 5 000 m²)

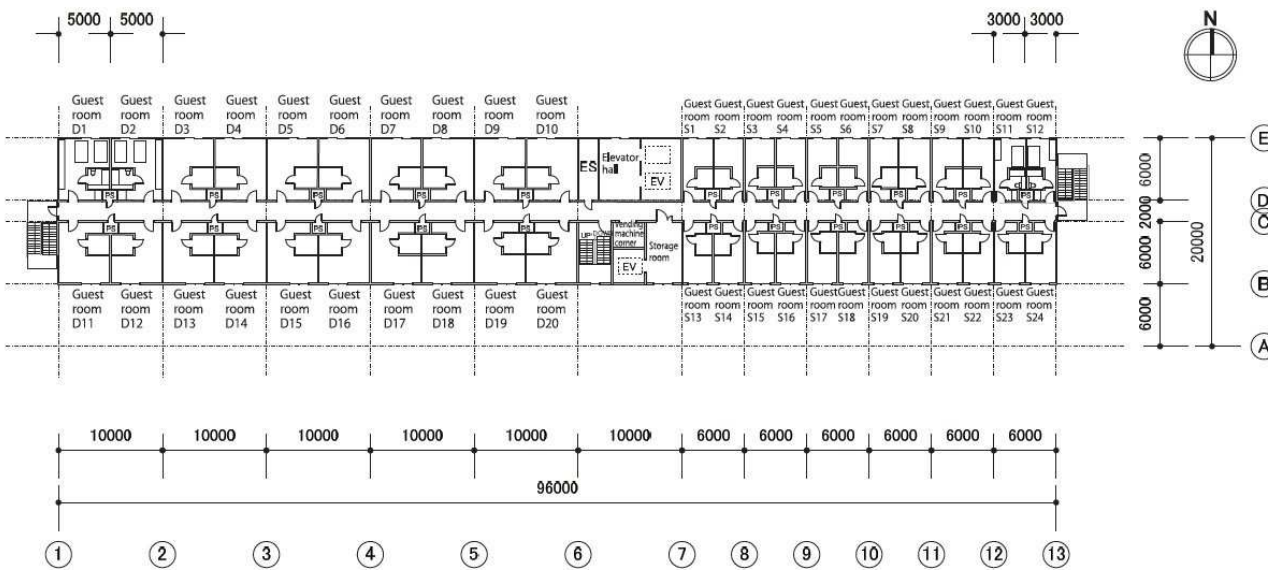
Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance space	S	1	0	4	3.5	14	14
1F	Elevator hall	N	2	0.3	0.9	3.2	2.88	5.76
1F	Lobby	N	9	0.3	0.9	3.2	2.88	25.92
		S	3	0.3	0.9	3.2	2.88	8.64
1F	Lounge	S	5	0.3	0.9	3.2	2.88	14.4
1F	Changing room 1	N	1	1.2	0.9	1.4	1.26	1.26
1F	Changing room 2	N	1	1.2	0.9	1.4	1.26	1.26
1F	Duty staff room	N	1	1.2	0.9	1.4	1.26	1.26
1F	Office room 1	S	3	0.9	3.8	1.7	6.46	19.38
1F	Lavatory	N	1	1.2	0.9	1.2	1.08	1.08
1F	Restaurant	S	4	0.3	3.8	3.2	12.16	48.64
		E	2	0.3	3.8	3.2	12.16	24.32
1F	Passage	E	1	0.9	0.9	1.5	1.35	1.35
1F	Changing room 4	E	1	1.2	1.8	2.3	4.14	4.14
2~4F	Elevator hall	N	1	0.9	1.8	1.7	3.06	3.06
2~4F	Storage room	S	1	1.2	1.8	1.2	2.16	2.16
2~4F	Guest roomS1, Guest roomS2, Guest roomS3, Guest roomS4, Guest roomS5, Guest roomS6, Guest roomS7, Guest roomS8, Guest roomS9, Guest roomS10	N	1	0.9	1.8	1.7	3.06	3.06
2~4F	Guest roomS11, Guest roomS12, Guest roomS13, Guest roomS14, Guest roomS15, Guest roomS16, Guest roomS17, Guest roomS18, Guest roomS19, Guest roomS20	S	1	0.9	1.8	1.7	3.06	3.06
2~4F	Guest room D1, Guest room D2, Guest room D3, Guest room D4, Guest room D5, Guest room D6, Guest room D8	N	1	0.9	1.8	1.7	3.06	3.06
2~4F	Guest room D9, Guest room D10, Guest room D11, Guest room D12, Guest room D13, Guest room D14, Guest room D15	S	1	0.9	1.8	1.7	3.06	3.06
2~4F	Stairs	S	1	-	0.9	0.5	0.45	0.45

E.3.2 Example no. 4



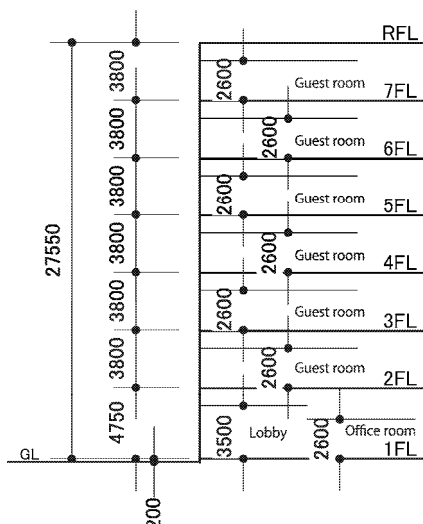
Model Building (Hotel, 10,000m²) plan, ground floor (1st floor)

Figure E.11 — Model building (hotel, 10 000 m²) plan, ground floor (first floor)



Model Building (Hotel, 10,000m²) plan, 1st to 6th floor (2nd to 7th floor)

Figure E.12 — Model building (hotel, 10 000 m²) plan, 1st to 6th floor (2nd to 7th floor)



Model Building (Hotel, 10,000m²) section

Figure E.13 — Model building (hotel, 10 000 m²) section

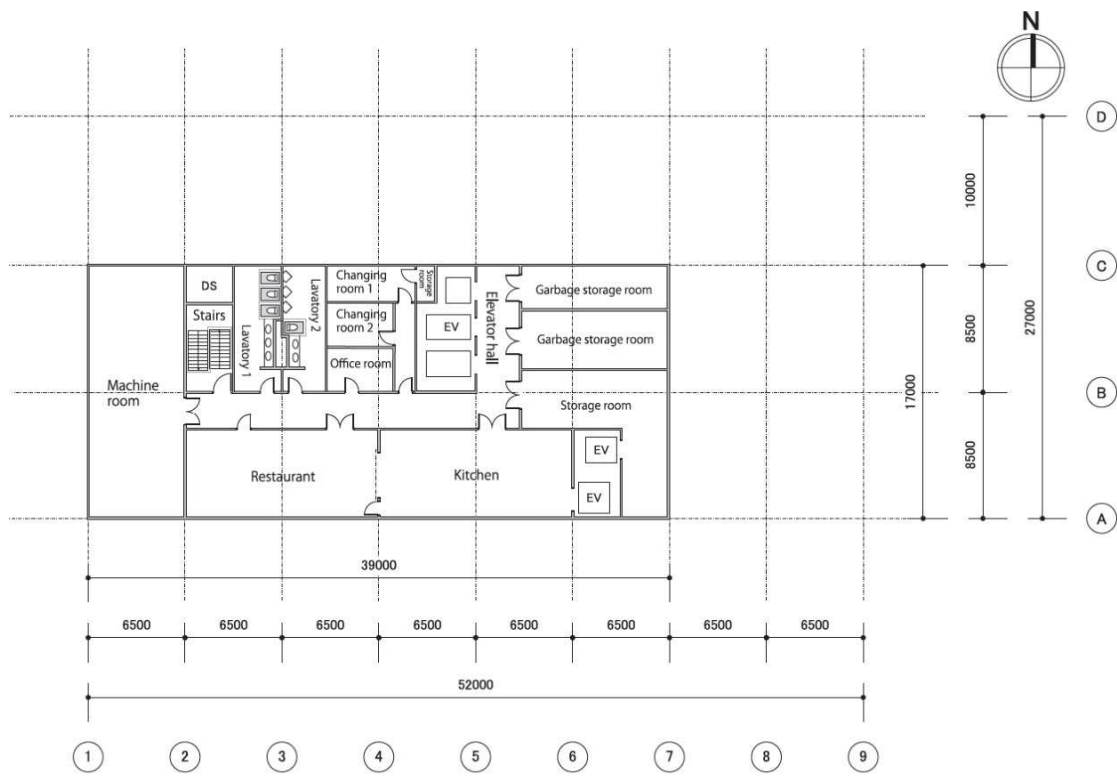
Table E.4 — Window size and layout (hotel, 10 000 m²)

Window Size and Layout (Hotel, 10,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance space	S	1	0	6.5	3.5	22.75	22.75
1F	Lobby	S	3	0	0.9	3.5	3.15	9.45
		N	10	0.3	0.9	3.2	2.88	28.8
1F	Elevator hall	N	2	0.3	0.9	3.2	2.88	5.76
1F	Lounge	S	5	1	0.9	2.5	2.25	11.25
1F	Changing room 1, Changing room 2, Changing room 3	N	3	1.5	0.9	1.1	0.99	2.97
1F	Duty staff room 1, Duty staff room 2	W	2	1.5	0.9	1.1	0.99	1.98
1F	Office room 1	S	3	1.2	3.8	1.4	5.32	15.96
1F	Restaurant	S	5	1.2	3.8	2.3	8.74	43.7
		E	2	1.2	3.8	2.3	8.74	17.48
2~7F	Elevator hall	N	1	1.2	1.8	1.4	2.52	2.52
2~7F	Storage room	S	1	1.5	1.8	0.9	1.62	1.62
2~7F	Guest roomS01, Guest roomS02, Guest roomS03, Guest roomS04, Guest roomS05, Guest roomS06, Guest roomS07, Guest roomS08, Guest roomS09, Guest roomS10, Guest roomS11, Guest roomS12	N	1	1.2	1.8	1.4	2.52	2.52
2~7F	Guest roomS13, Guest roomS14, Guest roomS15, Guest roomS16, Guest roomS17, Guest roomS18, Guest roomS19, Guest roomS20, Guest roomS21, Guest roomS22, Guest roomS23, Guest roomS24	S	1	1.2	1.8	1.4	2.52	2.52
2~7F	Guest roomD01, Guest roomD02, Guest roomD03, Guest roomD04, Guest roomD05, Guest roomD06, Guest roomD07, Guest roomD08, Guest roomD09, Guest roomD10	N	1	1.2	1.8	1.4	2.52	2.52
2~7F	Guest roomD11, Guest roomD12, Guest roomD13, Guest roomD14, Guest roomD15, Guest roomD16, Guest roomD17, Guest roomD18, Guest roomD19, Guest roomD20	S	1	1.2	1.8	1.4	2.52	2.52
2~7F	Stairs	S	1	-	0.9	0.5	0.45	0.45

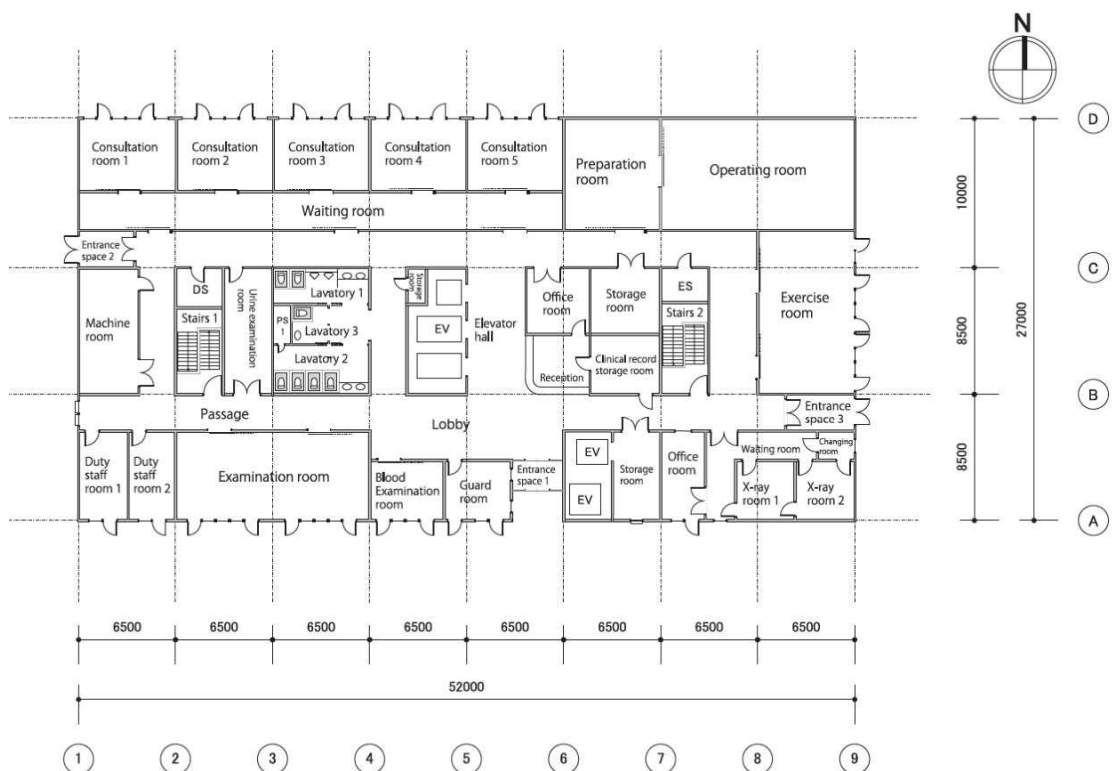
E.4 Examples of hospital building

E.4.1 Example no. 5



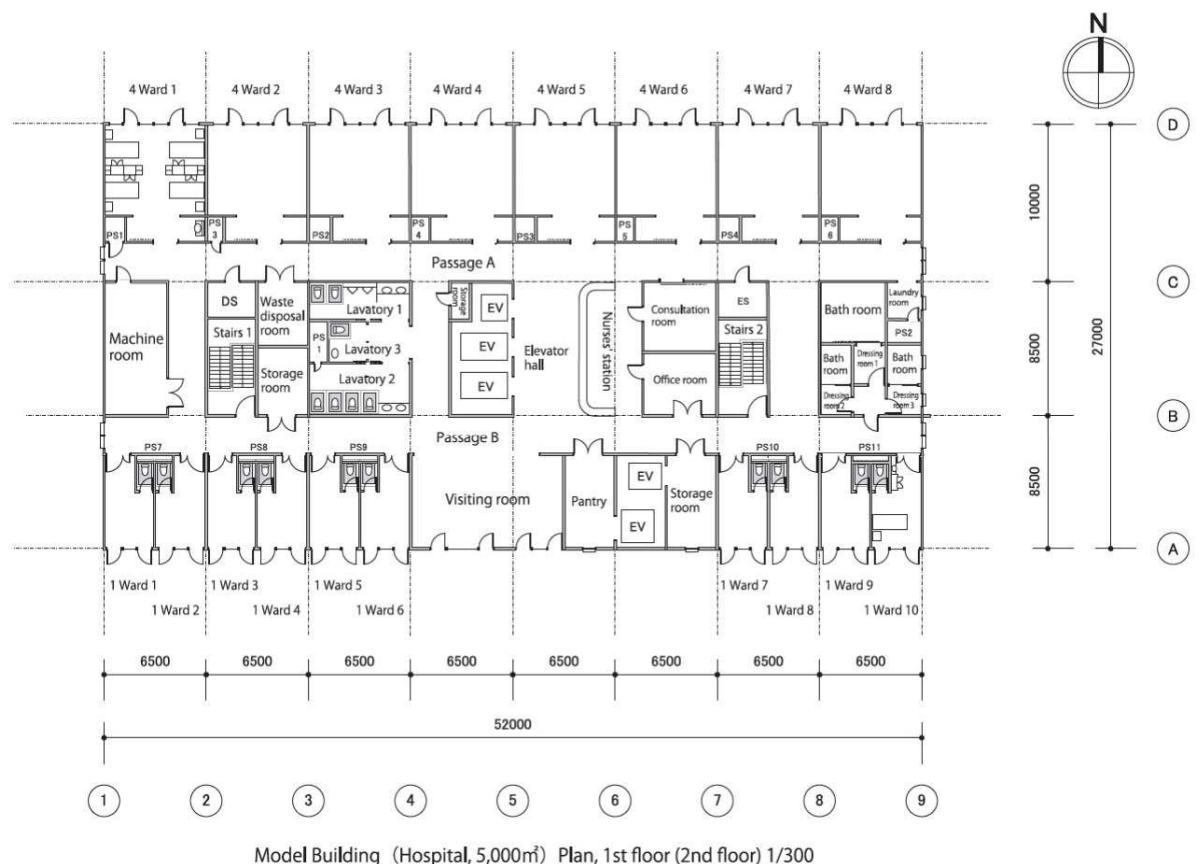
Model Building (Hospital, 5,000m²) Plan, basement level 1 (1st basement floor) 1/300

Figure E.14 — Model building (hospital, 5 000 m²) plan, basement level 1 (first basement floor) 1/300



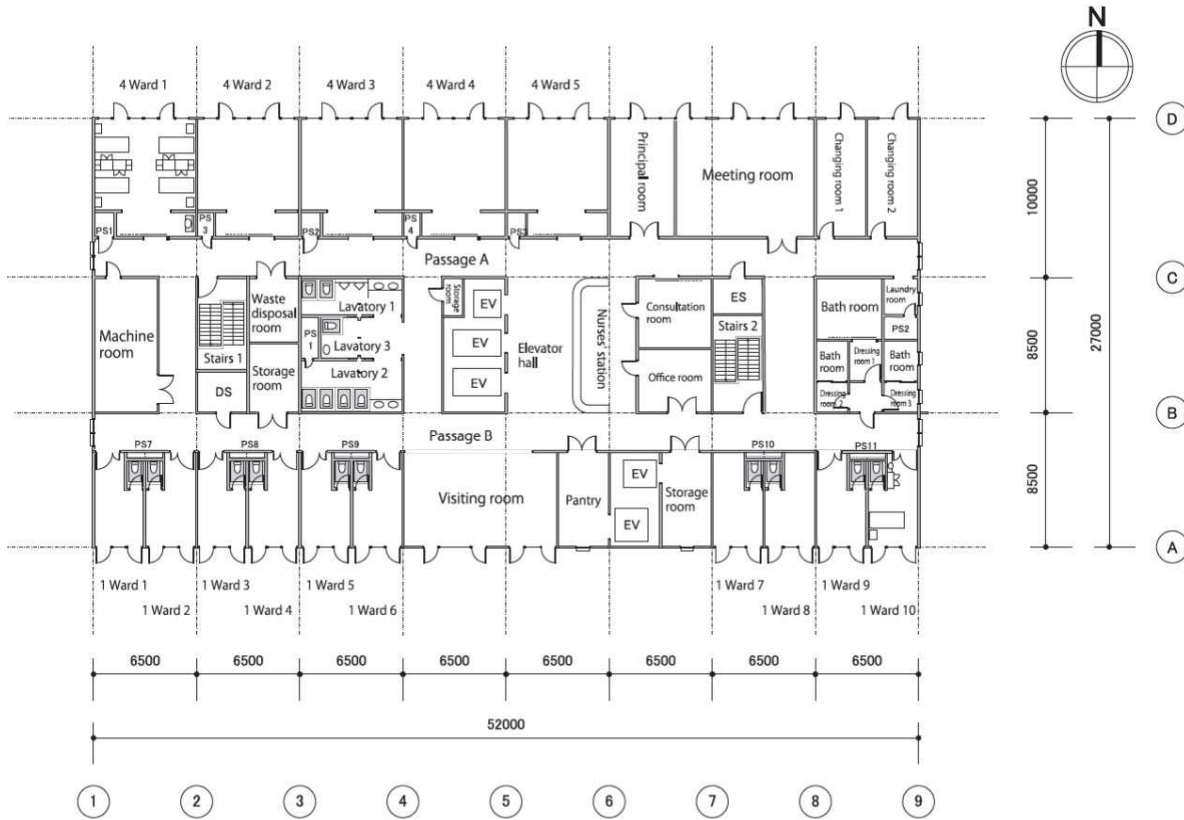
Model Building (Hospital, 5,000m²) Plan, ground floor (1st floor) 1/300

Figure E.15 — Model building (hospital, 5 000 m²) plan, ground floor (first floor) 1/300



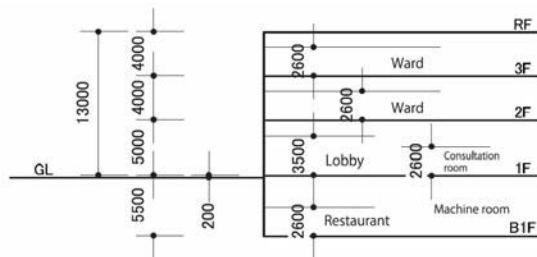
Model Building (Hospital, 5,000m²) Plan, 1st floor (2nd floor) 1/300

Figure E.16 — Model building (hospital, 5 000 m²) plan, first floor (second floor) 1/300



Model Building (Hospital, 5,000m²) Plan, 2nd floor (3rd floor) 1/300

Figure E.17 — Model building (hospital, 5 000 m²) plan, second floor (third floor) 1/300



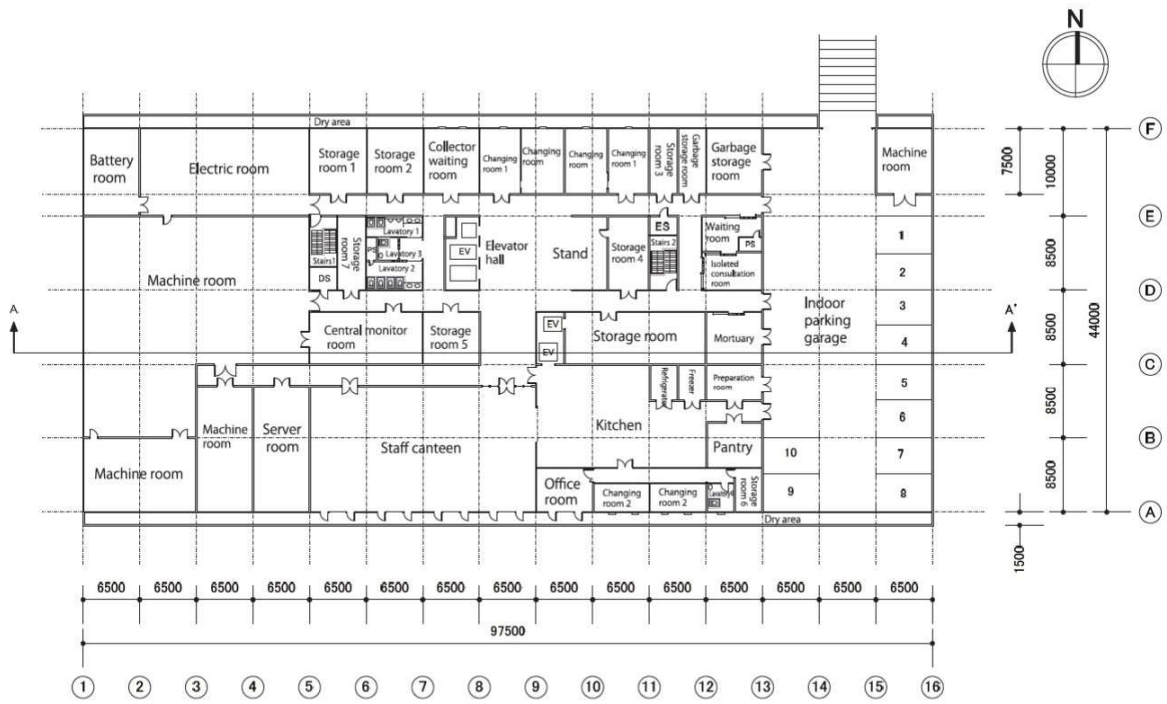
Model Building (Hospital, 5,000m²) section 1/300

Figure E.18 — Model building (hospital, 5 000 m²) section 1/300

Table E.5 — Window size and layout (hospital, 5 000 m²)Window Size and Layout (Hospital, 5,000m²)

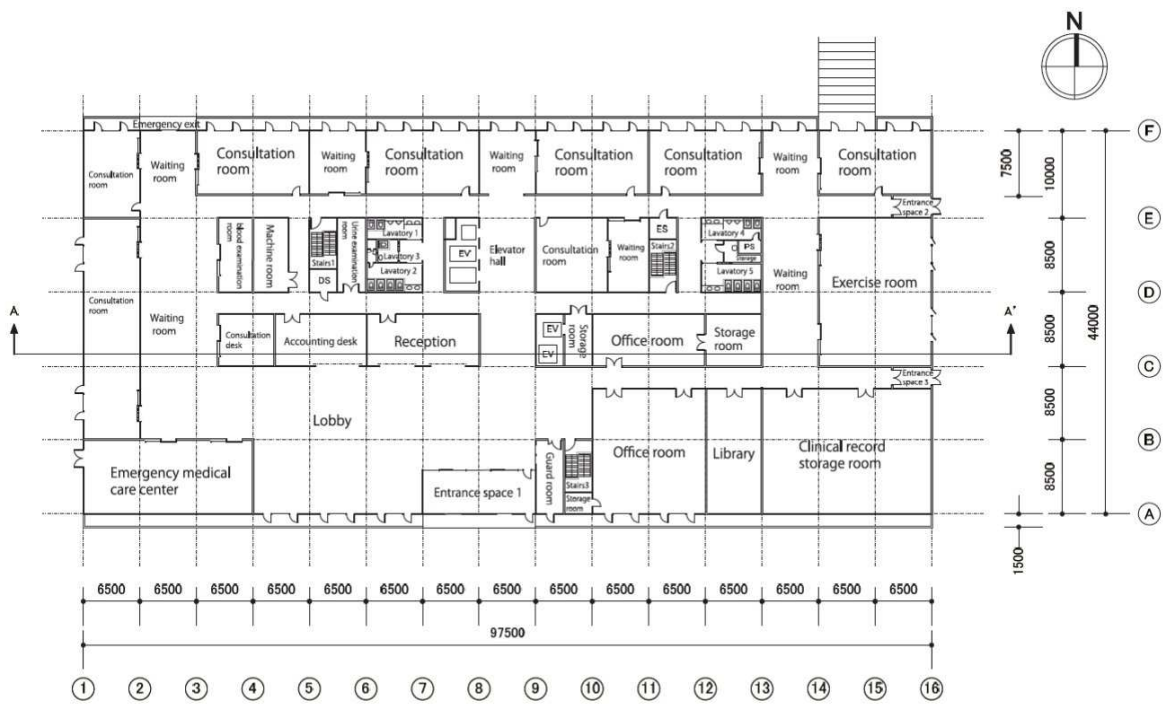
Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Consultation room 1, Consultation room 2, Consultation room 3, Consultation room 4, Consultation room 5	N	1	1.2	5.4	1.4	7.56	7.56
1F	Exercise room	E	1	1.2	1.8	1.4	2.52	2.52
		E	2	1.2	3.6	1.4	5.04	10.08
1F	Changing room	E	1	1.2	0.9	1.4	1.26	1.26
1F	Waiting room	S	1	1.2	0.9	1.4	1.26	1.26
1F	Office room	S	1	1.2	1.8	1.4	2.52	2.52
1F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
1F	Entrance space 1	S	1	0	3.5	3	10.5	10.5
1F	Guard room	S	1	1.2	1.8	1.4	2.52	2.52
1F	Blood Examination room	S	1	1.2	3.6	1.4	5.04	5.04
1F	Examination room	S	2	1.2	4.5	1.4	6.3	12.6
1F	Duty staff room 1, Duty staff room 2	S	1	1.2	1.8	1.4	2.52	2.52
1F	Passage	W	2	1.2	0.9	1.4	1.26	2.52
2F	4 Ward 1, 4 Ward 2, 4 Ward 3, 4 Ward 4, 4 Ward 5, 4 Ward 6, 4 Ward 7, 4 Ward 8	N	1	1.2	5.4	1.4	7.56	7.56
2F	Passage A	E	2	1.2	0.9	1.4	1.26	2.52
		W	2	1.2	0.9	1.4	1.26	2.52
2F	Laundry room	E	1	1.2	0.9	1.4	1.26	1.26
2F	Bath room	E	1	1.2	0.9	1.4	1.26	1.26
2F	Dressing room 3	E	1	1.2	0.9	1.4	1.26	1.26
2F	Passage B	E	2	1.2	0.9	1.8	1.62	3.24
		W	2	1.2	0.9	1.8	1.62	3.24
2F	1 Ward 1, 1 Ward 2, 1 Ward 3, 1 Ward 4, 1 Ward 5, 1 Ward 6, 1 Ward 7, 1 Ward 8, 1 Ward 9, 1 Ward 10	S	1	1.2	2.7	1.4	3.78	3.78
2F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
2F	Pantry	S	1	1.2	0.9	1.4	1.26	1.26
2F	Visiting room	S	1	0.3	2.7	2.3	6.21	6.21
		S	1	0.3	3.8	2.3	8.74	8.74
3F	4 Ward 1, 4 Ward 2, 4 Ward 3, 4 Ward 4, 4 Ward 5	N	1	1.2	5.4	1.4	7.56	7.56
3F	Principal room	N	1	1.2	2.7	1.4	3.78	3.78
3F	Meeting room	N	1	1.2	1.8	1.4	2.52	2.52
		N	1	1.2	5.4	1.4	7.56	7.56
3F	Dressing room 1, Dressing room 2	N	1	1.2	1.8	1.4	2.52	2.52
3F	Passage A	E	2	1.2	0.9	1.4	1.26	2.52
		W	2	1.2	0.9	1.4	1.26	2.52
3F	Laundry room	E	1	1.2	0.9	1.4	1.26	1.26
3F	Bath room	E	1	1.2	0.9	1.4	1.26	1.26
3F	Dressing room 3	E	1	1.2	0.9	1.4	1.26	1.26
3F	Passage B	E	2	1.2	0.9	1.8	1.62	3.24
		W	2	1.2	0.9	1.8	1.62	3.24
3F	1 Ward 1, 1 Ward 2, 1 Ward 3, 1 Ward 4, 1 Ward 5, 1 Ward 6, 1 Ward 7, 1 Ward 8, 1 Ward 9, 1 Ward 10	S	1	1.2	2.7	1.4	3.78	3.78
3F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
3F	Pantry	S	1	1.2	0.9	1.4	1.26	1.26
3F	Visiting room	S	1	0.3	2.7	2.3	6.21	6.21
		S	1	0.3	3.8	2.3	8.74	8.74

E.4.2 Example no. 6



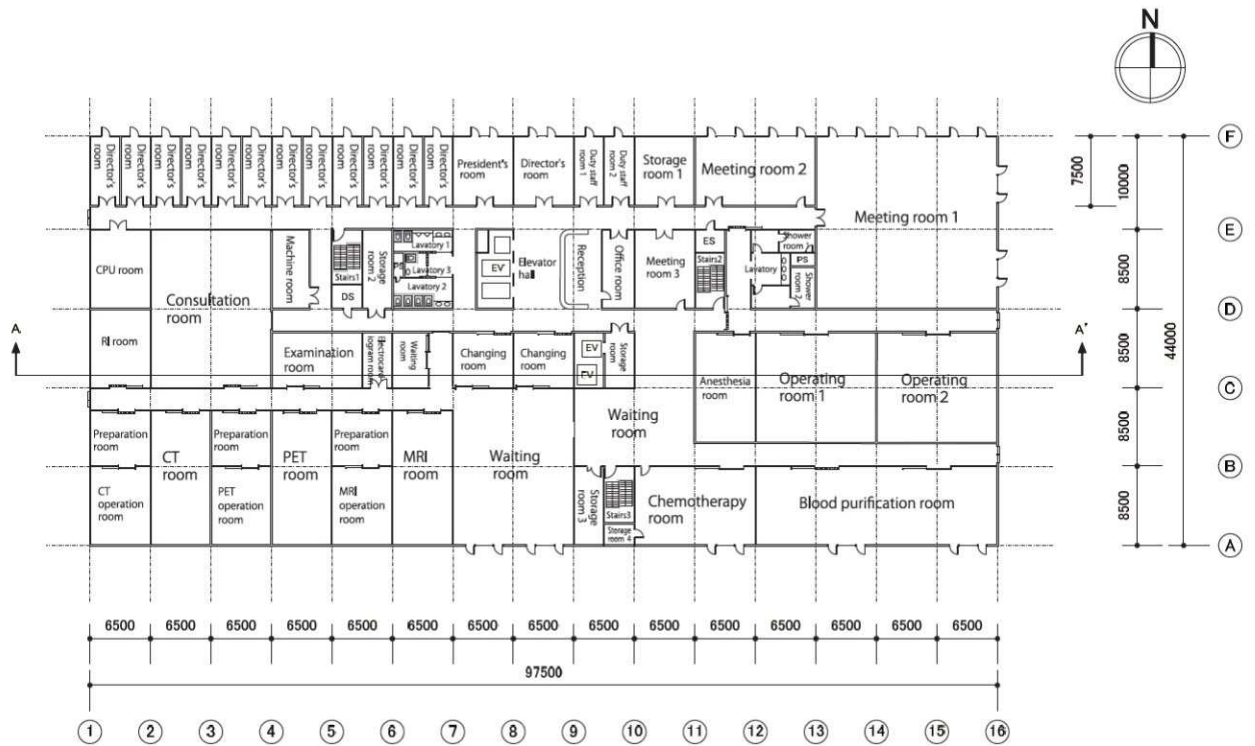
Model Building (Hospital, 20,000m²) plan, basement level 1 (1st basement floor)

Figure E.19 — Model building (hospital, 20 000 m²) plan, basement level 1 (first basement floor)



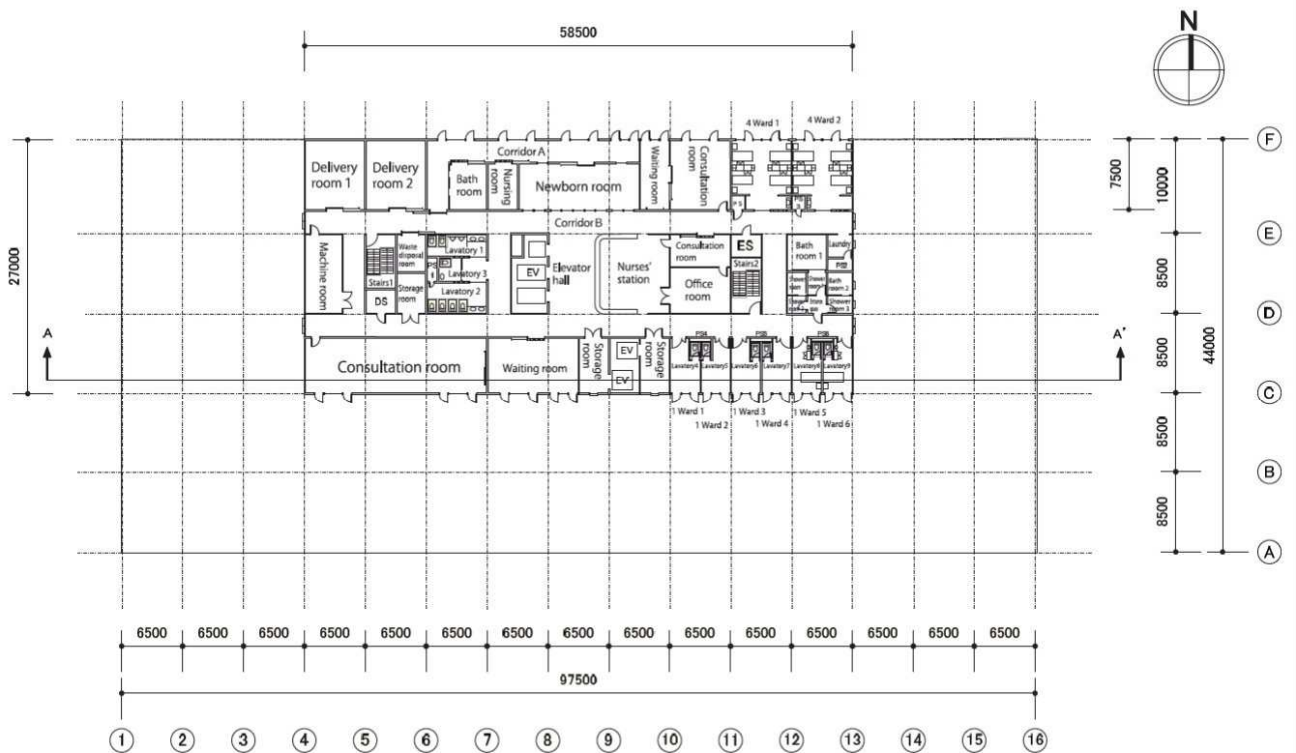
Model Building (Hospital, 20,000m²) plan, ground floor (1st floor)

Figure E.20 — Model building (hospital, 5 000 m²) plan, ground floor (first floor)



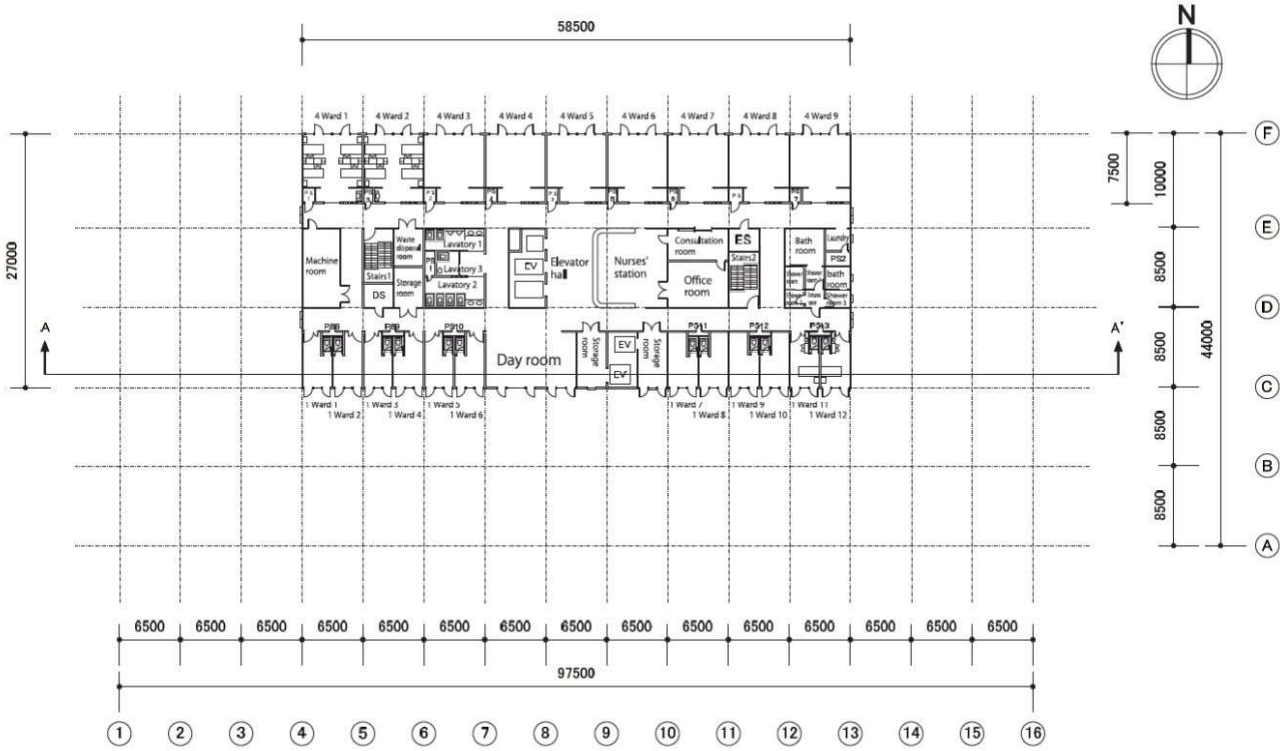
Model Building (Hospital, 20,000m²) plan, 1st floor (2nd floor)

Figure E.21 — Model building (hospital, 20 000 m²) plan, first floor (second floor)



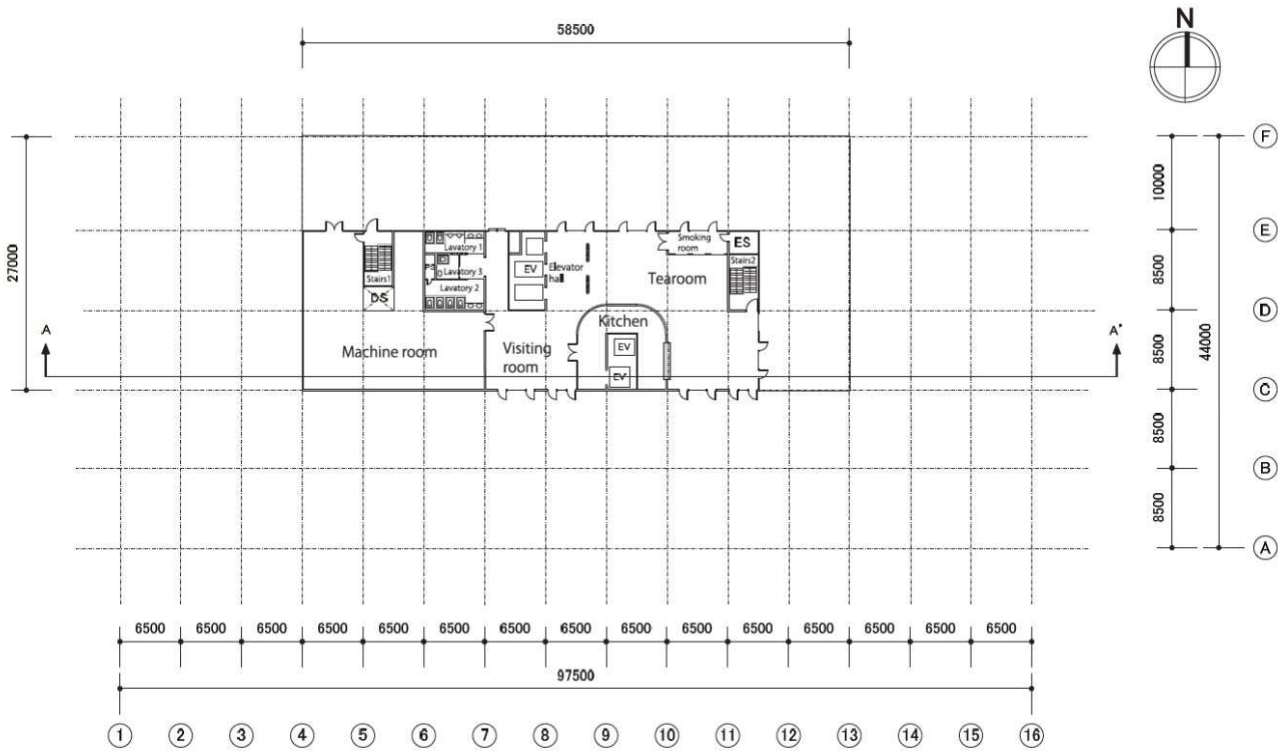
Model Building (Hospital, 20,000m²) plan, 2nd floor (3rd floor)

Figure E.22 — Model building (hospital, 20 000 m²) plan, second floor (third floor)



Model Building (Hospital, 20,000m²) plan, 3rd to 5th floor (4th to 6th floor)

Figure E.23 — Model building (hospital, 20 000 m²) plan, 3rd to 5th floor (4th to 6th floor)



Model Building (Hospital, 20,000m²) plan, 6th floor (7th floor)

Figure E.24 — Model building (hospital, 20 000 m²) plan, 6th floor (7th floor)

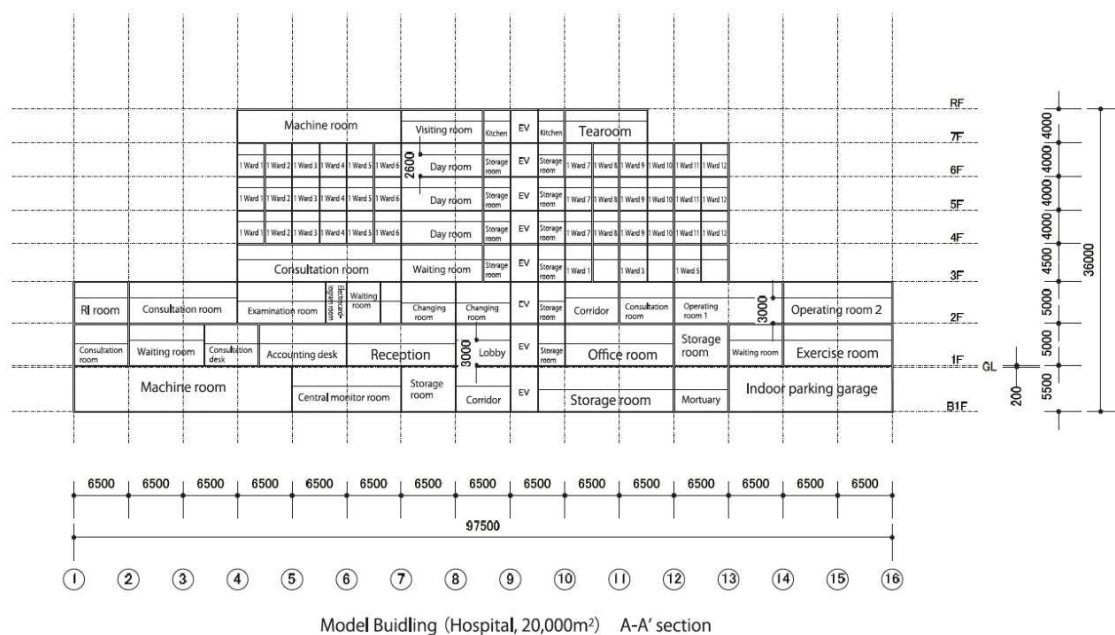


Figure E.25 — Model building (hospital, 20 000 m²) A-A' section

Table E.6 — Window size and layout (hospital, 20 000 m²)

Window Size and Layout (Hospital, 20,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
B1F	Collector waiting room	N	2	1.2	0.9	1.2	1.08	2.16
B1F	Changing room 1, Changing room 1	N	1	1.2	0.9	1.2	1.08	1.08
B1F	Changing room, Changing room	N	1	1.2	0.9	1.2	1.08	1.08
B1F	Staff canteen	S	4	1.2	3.8	1.4	5.32	21.28
B1F	Office room	S	1	1.2	3.8	1.4	5.32	5.32
B1F	Changing room 2, Changing room 2	S	2	1.2	0.9	1.2	1.08	2.16
B1F	Lavatory 4	S	1	1.2	0.9	1.2	1.08	1.08
1F	Consultation room	N	1	1.2	3.8	1.4	5.32	5.32
1F	Consultation room	N	2	1.2	3.8	1.4	5.32	10.64
1F	Waiting room	N	1	1.2	3.8	1.8	6.84	6.84
1F	Consultation room	N	2	1.2	3.8	1.4	5.32	10.64
1F	Waiting room	N	1	1.2	3.8	1.8	6.84	6.84
1F	Consultation room	N	2	1.2	3.8	1.4	5.32	10.64
1F	Consultation room	N	2	1.2	3.8	1.4	5.32	10.64
1F	Waiting room	N	1	1.2	3.8	1.8	6.84	6.84
1F	Consultation room	N	2	1.2	3.8	1.4	5.32	10.64
1F	Consultation room	W	2	1.2	3.8	1.4	5.32	10.64
1F	Exercise room	E	2	1.2	3.8	1.8	6.84	13.68
1F	Lobby	S	3	1.2	3.8	1.8	6.84	20.52
1F	Entrance space 1	S	1	0	7.6	3	22.8	22.8
1F	Guard room	S	1	1.2	0.9	1.4	1.26	1.26
1F	Office room	S	2	1.2	3.8	1.4	5.32	10.64
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	Director's room	N	1	1.2	0.9	1.4	1.26	1.26
2F	President's room	N	1	1.2	2.8	1.4	3.92	3.92
2F	Director's room	N	1	1.2	2.8	1.4	3.92	3.92
2F	Duty staff room 1, Duty staff room 2	N	1	1.2	0.9	1.4	1.26	1.26
2F	Meeting room 1	N	3	1.2	3.8	1.6	6.08	18.24
		E	2	1.2	3.8	1.6	6.08	12.16
2F	Meeting room 2	N	2	1.2	3.8	1.4	5.32	10.64
2F	Waiting room	S	2	1.2	3.8	1.8	6.84	13.68
2F	Chemotherapy room	S	1	1.2	3.8	1.8	6.84	6.84
2F	Blood purification room	S	2	1.2	3.8	1.8	6.84	13.68
2F	Corridor	W	2	1.2	1.8	1.8	3.24	6.48
		E	2	1.2	1.8	1.8	3.24	6.48

Table E.6 (continued)

Window Size and Layout (Hospital, 20,000m²) (続き)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Cap from floor	Width	Height		
3F	Waiting room	N	1	1.2	2.8	1.4	3.92	3.92
3F	Consultation room	N	1	1.2	3.8	1.4	5.32	5.32
3F	4Ward1, 4Ward2	N	1	1.2	5.4	1.4	7.56	7.56
3F	Shower room 3	E	1	1.5	0.9	1.1	0.99	0.99
3F	Laundry	E	1	1.5	0.9	1.1	0.99	0.99
3F	Consultation room	S	2	1.2	3.8	1.8	6.84	13.68
3F	Waiting room	S	1	1.2	2.8	1.8	5.04	5.04
		S	1	1.2	3.8	1.8	6.84	6.84
3F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
3F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
3F	1Ward1, 1Ward2, 1Ward3, 1Ward4, 1Ward5, 1Ward6	S	1	1.2	2.7	1.4	3.78	3.78
3F	Corridor A	N	3	1.2	3.8	1.4	5.32	15.96
		N	1	1.2	2.8	1.4	3.92	3.92
3F	Corridor B	W	2	1.2	1.8	1.4	2.52	5.04
		E	2	1.2	1.8	1.4	2.52	5.04
4~6F	4Ward1, 4Ward2, 4Ward3, 4Ward4, 4Ward5, 4Ward6, 4Ward7, 4Ward8, 4Ward9	N	1	1.2	5.4	1.4	7.56	7.56
4~6F	Shower room 3	E	1	1.5	0.9	1.1	0.99	0.99
4~6F	Bath room 2	E	1	1.5	0.9	1.1	0.99	0.99
4~6F	Laundry	E	1	1.5	0.9	1.1	0.99	0.99
4~6F	1Ward1, 1Ward2, 1Ward3, 1Ward4, 1Ward5, 1Ward6, 1Ward7, 1Ward8, 1Ward9, 1Ward10, 1Ward11, 1Ward12	S	1	1.2	2.7	1.4	3.78	3.78
4~6F	Day room	S	1	1.2	2.8	1.4	3.92	3.92
		S	1	1.2	3.8	1.4	5.32	5.32
4~6F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
4~6F	Storage room	S	1	1.2	0.9	1.4	1.26	1.26
4~6F	Corridor	W	2	1.2	1.8	1.4	2.52	5.04
		E	2	1.2	1.8	1.4	2.52	5.04
7F	Elevator hall	N	1	1.2	3.8	1.4	5.32	5.32
7F	Smoking room	N	1	1.2	3.8	1.4	5.32	5.32
7F	Tearoom	N	1	1.2	3.8	1.4	5.32	5.32
		E	1	1.2	3.8	1.4	5.32	5.32
		E	1	1.2	2	1.4	2.8	2.8
		S	1	1.2	3.8	1.4	5.32	5.32
		S	1	1.2	2.8	1.4	3.92	3.92
7F	Visiting room	S	1	1.2	2.8	1.4	3.92	3.92
		S	1	1.2	3.8	1.4	5.32	5.32
7F	Corridor	N	1	1.2	1.8	1.4	2.52	2.52

E.5 Examples of shop building

E.5.1 Example no. 7

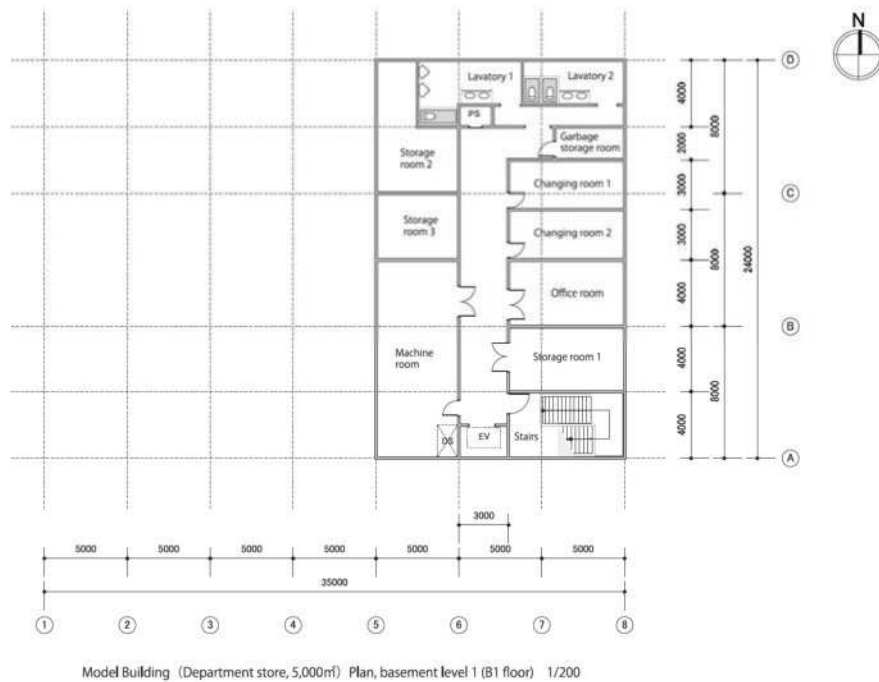


Figure E.26 — Model building (department store, 5 000 m²) plan, basement level 1 (B1 floor) 1/200

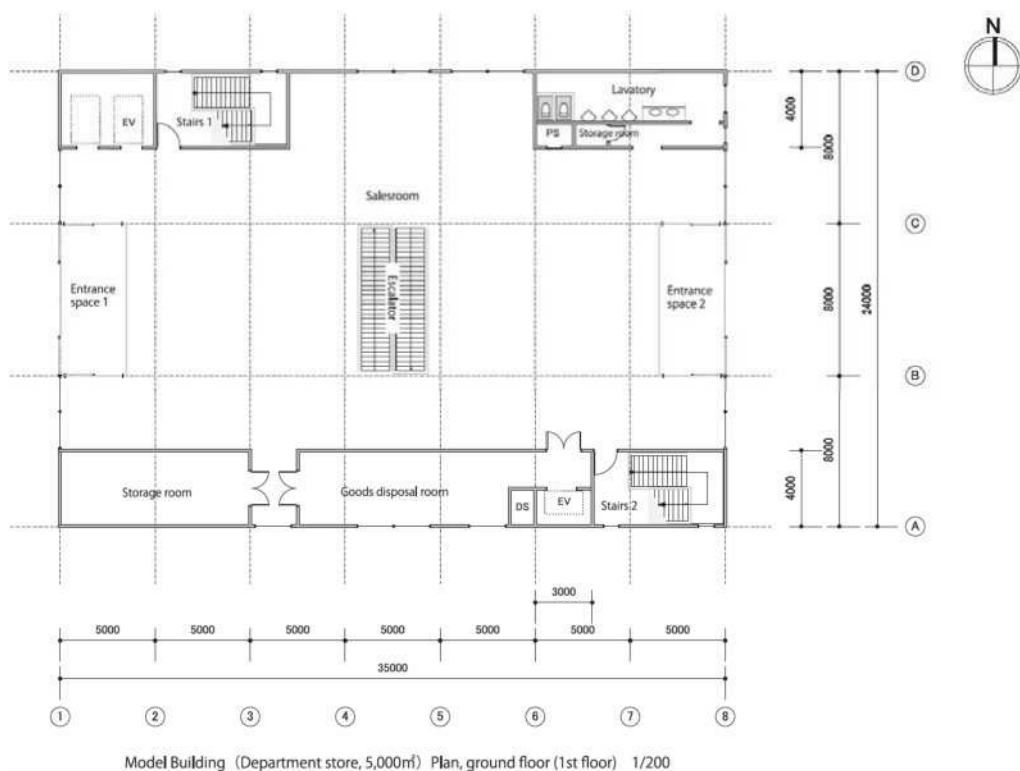


Figure E.27 — Model building (department store, 5 000 m²) plan, ground floor (first floor) 1/200

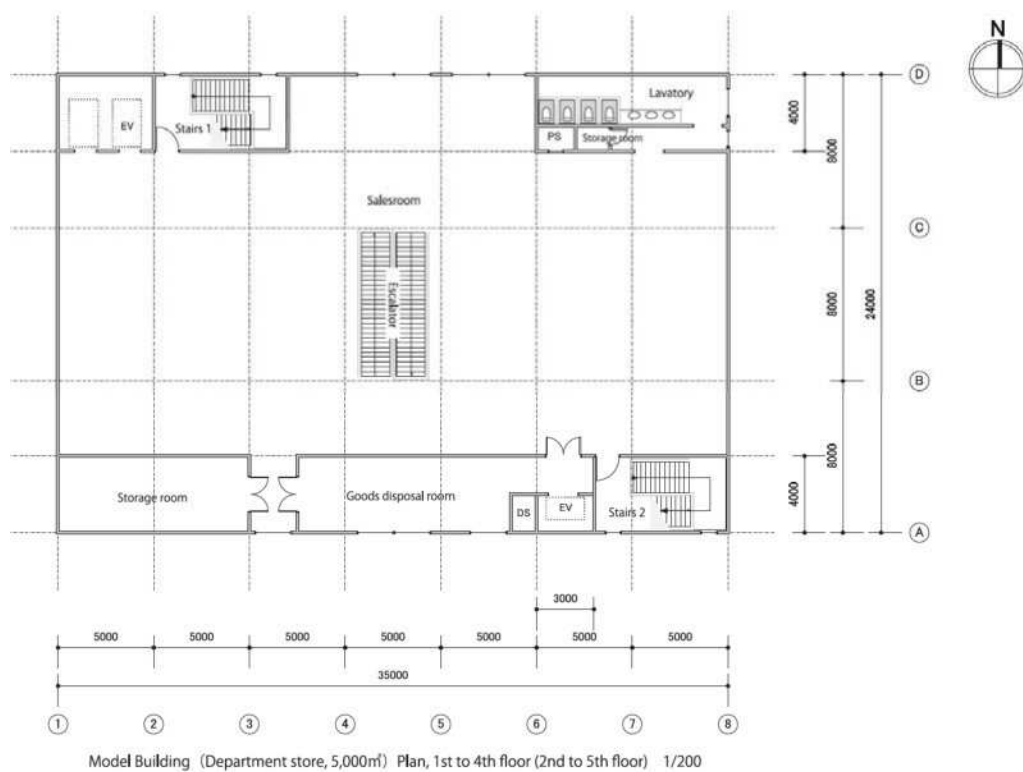


Figure E.28 — Model building (department store, 5 000 m²) plan, 1st to 4th floor (2nd to 5th floor) 1/200

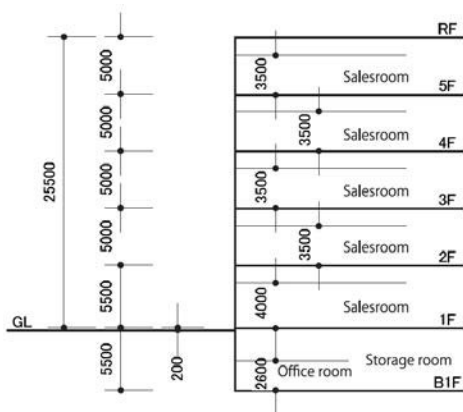


Figure E.29 — Model building (department store, 5 000 m²) section 1/200

Table E.7 — Window size and layout (department store, 5 000 m²)

Window Size and Layout (Department store, 5,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Stairs 1	N	2	0	0.9	0.5	0.45	0.9
1F	Stairs 2	S	2	0	0.9	0.5	0.45	0.9
1F	Salesroom	N	2	0.9	4	3.1	12.4	24.8
		E	2	0	4	4	16	32
		W	2	0	4	4	16	32
		S	1	0.9	2	3.1	6.2	6.2
1F	Lavatory	E	1	1.2	1.5	1.2	1.8	1.8
		E	1	1.2	0.9	1.2	1.08	1.08
1F	Entrance space 2	E	1	0	8	4	32	32
1F	Entrance space 1	W	1	0	8	4	32	32
1F	Goods disposal room	S	1	1.2	2	2.8	5.6	5.6
		S	1	1.2	4	2.8	11.2	11.2
2~5F	Stairs 1	N	2	0	0.9	0.5	0.45	0.9
2~5F	Stairs 2	S	2	0	0.9	0.5	0.45	0.9
2~5F	Salesroom	N	2	0.9	4	3.1	12.4	24.8
		S	1	0.9	2	3.1	6.2	6.2
2~5F	Lavatory	E	1	1.2	1.5	1.2	1.8	1.8
		E	1	1.2	0.9	1.2	1.08	1.08
2~5F	Goods disposal room	S	1	1.2	2	2.8	5.6	5.6
		S	1	1.2	4	1.8	7.2	7.2

E.5.2 Example no. 8

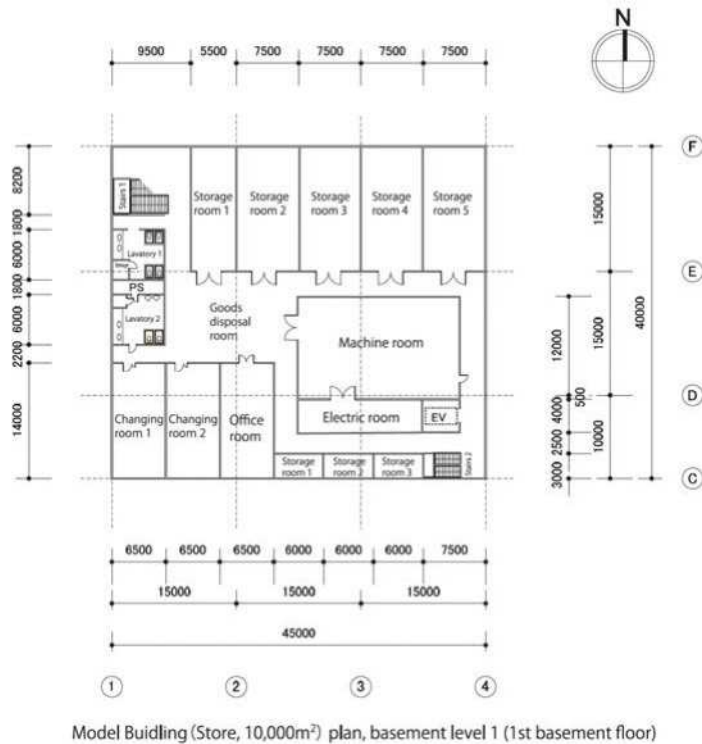


Figure E.30 — Model building (store, 10 000 m²) plan, basement level 1 (first basement floor)

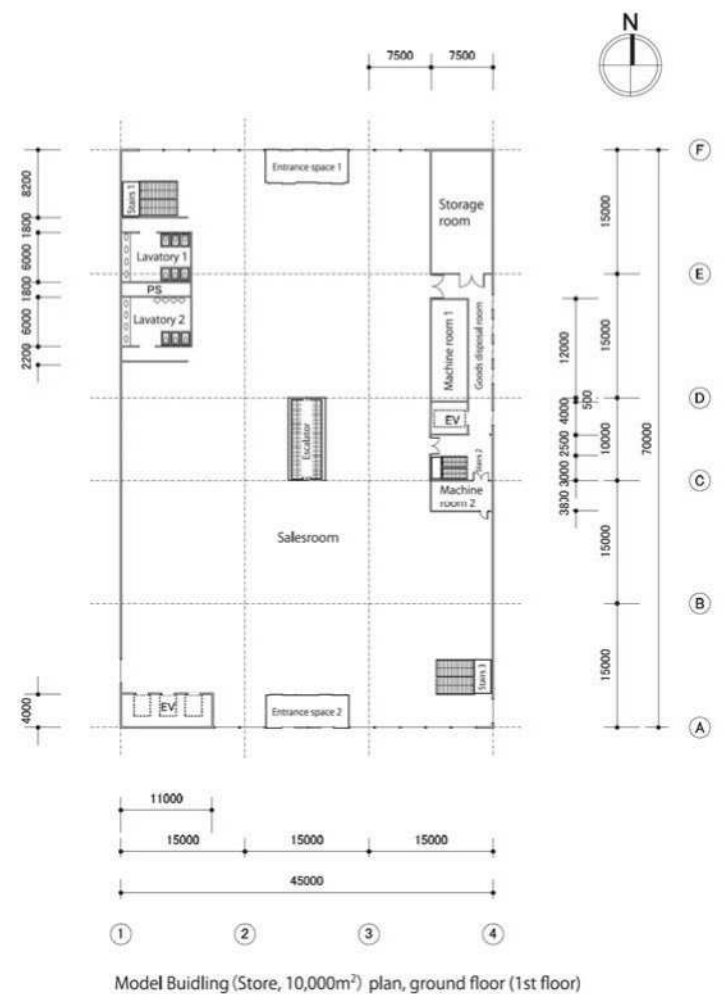


Figure E.31 — Model building (store, 10 000 m²) plan, ground floor (first floor)

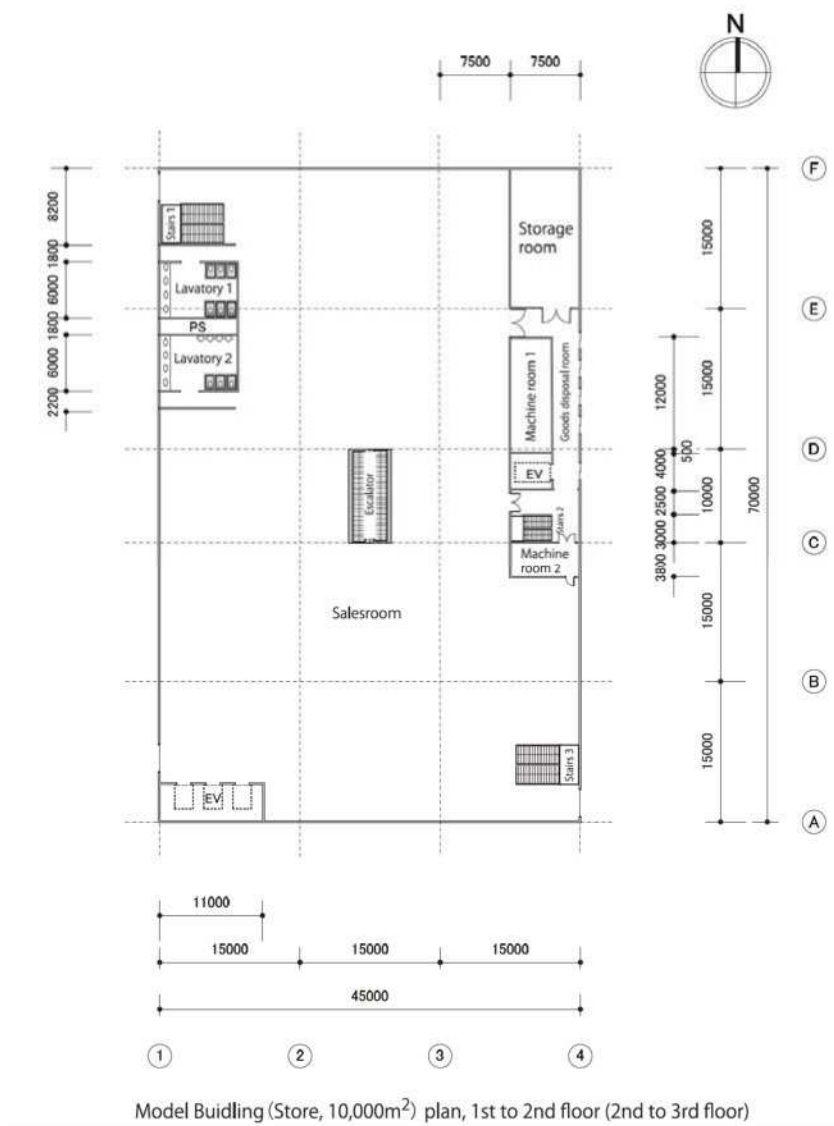


Figure E.32 — Model building (store, 10 000 m²) plan, 1st to 2nd floor (2nd to 3rd floor)

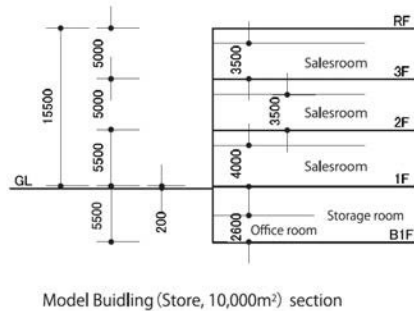


Figure E.33 — Model building (store, 10 000 m²) section

Table E.8 — Window size and layout (store, 10 000 m²)

Window Size and Layout (Store, 10,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Salesroom	N	8	0	3	4	12	96
		E	1	0.3	3	3.7	11.1	11.1
		S	7	0	3	4	12	84
		W	2	0.3	3	3.7	11.1	22.2
1F	Entrance space 1	N	1	0	10	4	40	40
1F	Entrance space 2	S	1	0	10	4	40	40
1F	Goods disposal room	E	5	1.2	1.8	1.8	3.24	16.2
2~3F	Salesroom	E	1	0.3	3	3.2	9.6	9.6
		W	2	0.3	3	3.2	9.6	19.2
2~3F	Goods disposal room	E	5	1.2	1.8	1.8	3.24	16.2

E.6 Examples of educational building

E.6.1 Example no. 9

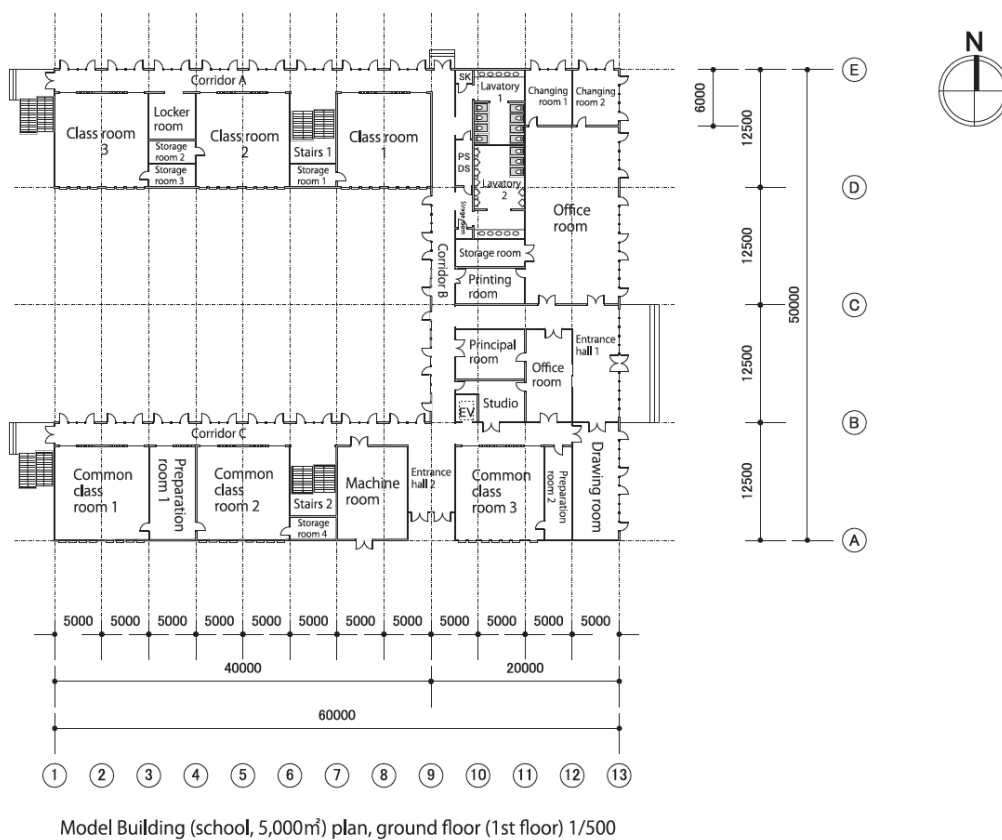


Figure E.34 — Model building (school, 5 000 m²) plan, ground floor (first floor) 1/500

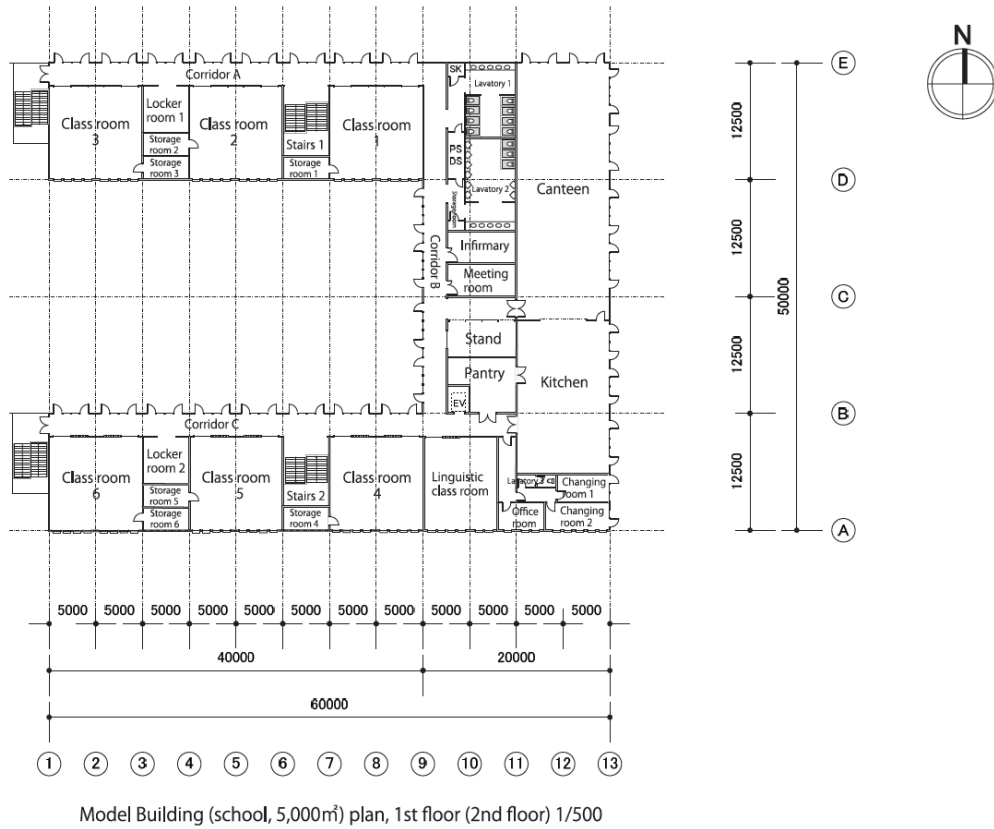


Figure E.35 — Model building (school, 5 000 m²) plan, first floor (second floor) 1/500

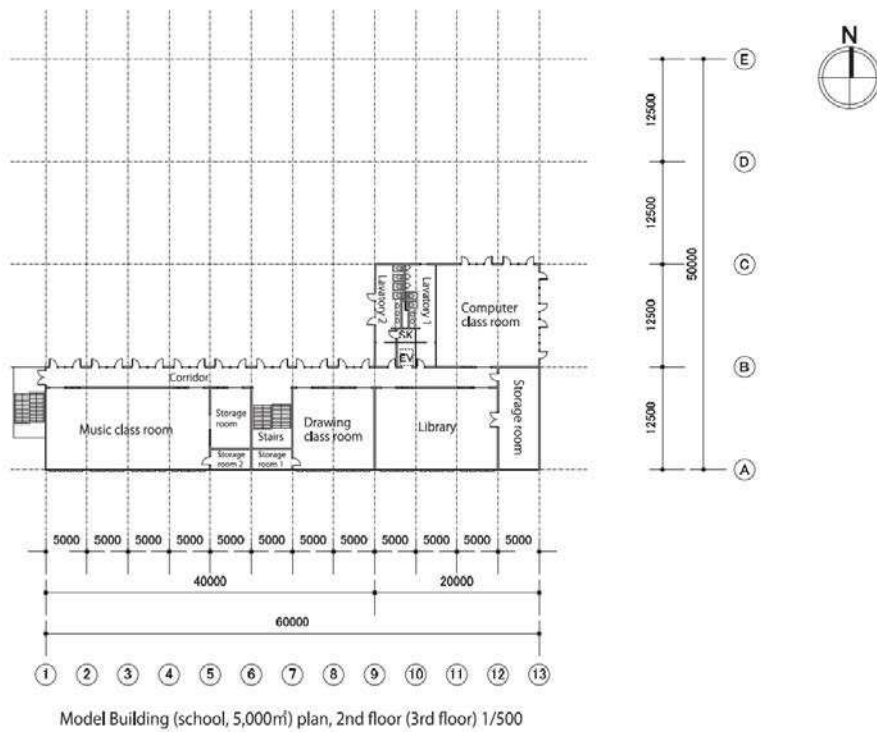
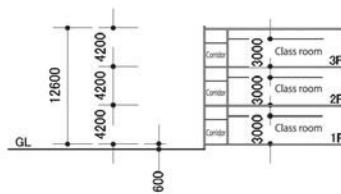


Figure E.36 — Model building (school, 5 000 m²) plan, second floor (third floor) 1/500



Model Building (school, 5,000m²) section 1/500

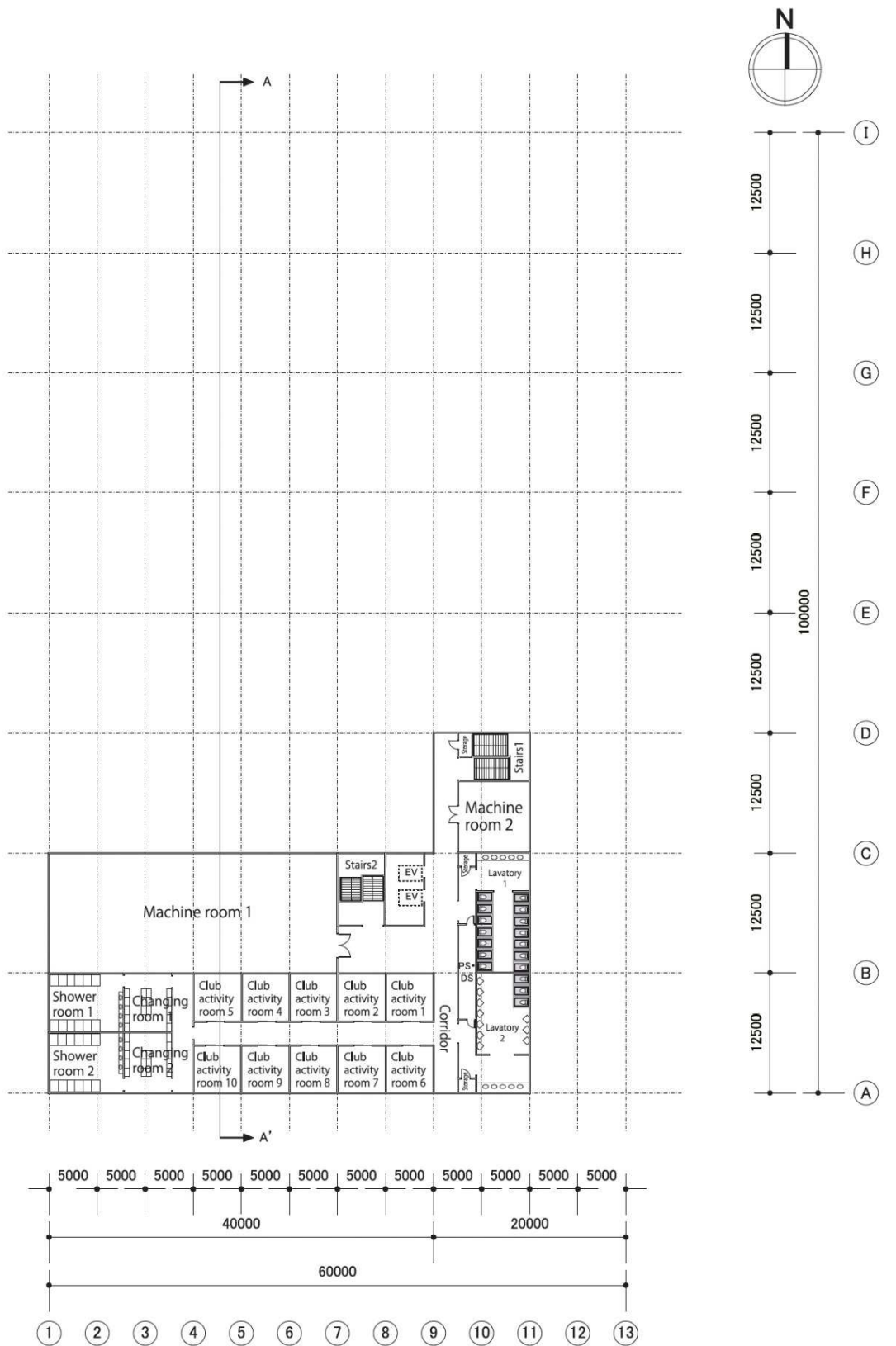
Figure E.37 — Model building (school, 5 000 m²) section 1/500

Table E.9 — Window size and layout (school, 5 000 m²)

Window Size and Layout (School 5,000m²)

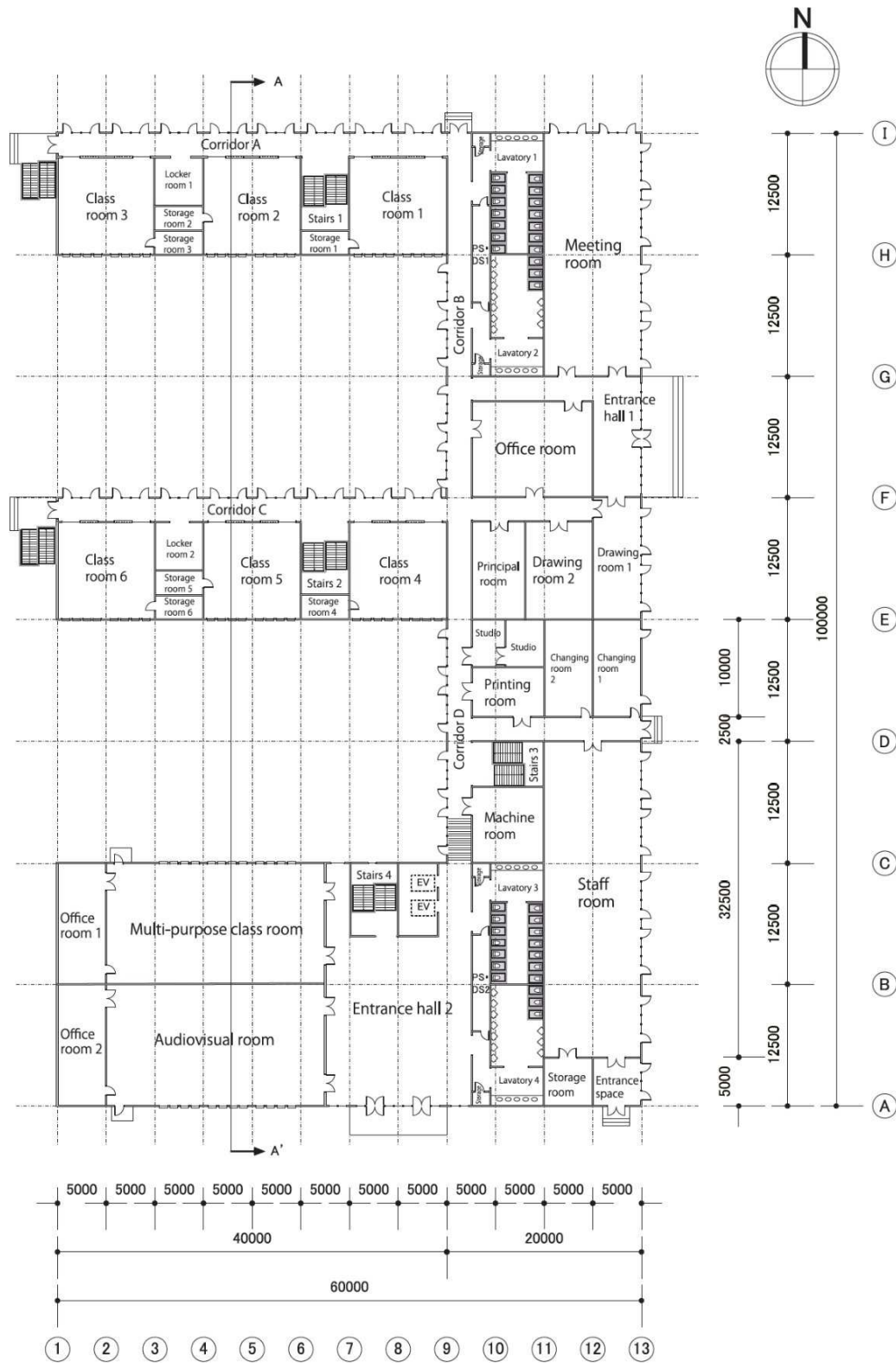
Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Depth	Width	Height		
1F	Corridor A	N	8	0.9	3.6	1.7	6.12	48.96
1F	Corridor B	W	2	0.9	9.9	1.7	6.12	12.24
1F	Corridor C	N	8	0.9	3.6	1.7	16.83	134.64
1F	Changing room 1	N	1	1.2	3.6	1.8	6.48	6.48
1F	Changing room 2	N	1	1.2	3.6	1.8	6.48	6.48
		E	1	0.9	4.5	2.1	9.45	9.45
1F	Office room	E	1	0.9	4.5	2.1	9.45	9.45
		E	1	0.9	9.9	2.1	20.79	20.79
1F	Entrance hall 1	E	1	0	10.8	3	32.4	32.4
1F	Drawing room	E	1	0.9	9.9	2.1	20.79	20.79
1F	Entrance hall 2	S	1	0	4.2	3	12.6	12.6
1F	Common class room 3	S	7	0.9	0.9	2.1	1.89	13.23
1F	Common class room 1, Common class room 2	S	8	0.9	0.9	2.1	1.89	15.12
1F	Class room 1, Class room 2, Class room 3	S	8	0.9	0.9	2.1	1.89	15.12
2F	Corridor A	N	8	0.9	3.6	1.7	6.12	48.96
2F	Corridor B	W	2	0.9	9.9	1.7	6.12	12.24
2F	Corridor C	N	8	0.9	3.6	1.7	16.83	134.64
2F	Canteen	N	2	0.9	3.6	2.1	7.56	15.12
		E	2	0.9	4.5	2.1	9.45	18.9
		E	1	0.9	9.9	2.1	20.79	20.79
2F	Kitchen	E	2	0.9	3.6	2.1	7.56	15.12
		E	1	0.9	4.5	2.1	9.45	9.45
2F	Changing room 1	E	1	0.9	2.7	1.7	4.59	4.59
2F	Changing room 2	E	1	0.9	1.8	1.7	3.06	3.06
		S	5	0.9	0.9	1.7	1.53	7.65
2F	Office room	S	3	0.9	0.9	1.7	1.53	4.59
2F	Linguistic class room	S	6	0.9	0.9	1.7	1.53	9.18
2F	Class room 4, Class room 5, Class room 6	S	8	0.9	0.9	2.1	1.89	15.12
2F	Class room 1, Class room 2, Class room 3	S	8	0.9	0.9	2.1	1.89	15.12
3F	Corridor	N	8	0.9	3.6	1.7	6.12	48.96
3F	Lavatory 2	W	1	0.9	3.6	1.7	6.12	6.12
3F	Lavatory 1	N	1	0.9	0.9	1.7	1.53	1.53
3F	Computer class room	N	2	0.9	3.6	2.1	7.56	15.12
		E	1	0.9	9.9	2.1	20.79	20.79
3F	Library	S	12	0.9	0.9	2.1	1.89	22.68
3F	Drawing class room	S	8	0.9	0.9	2.1	1.89	15.12
3F	Music class room	S	16	0.9	0.9	2.1	1.89	30.24

E.6.2 Example no. 10



Model Building (School, 10,000m²) plan, basement level 1 (1st basement floor)

Figure E.38 — Model building (school, 10 000 m²) plan, basement level 1 (first basement floor)



Model Building (School, 10,000m²) plan, ground floor (1st floor)

Figure E.39 — Model building (school, 10 000 m²) plan, ground floor (first floor)

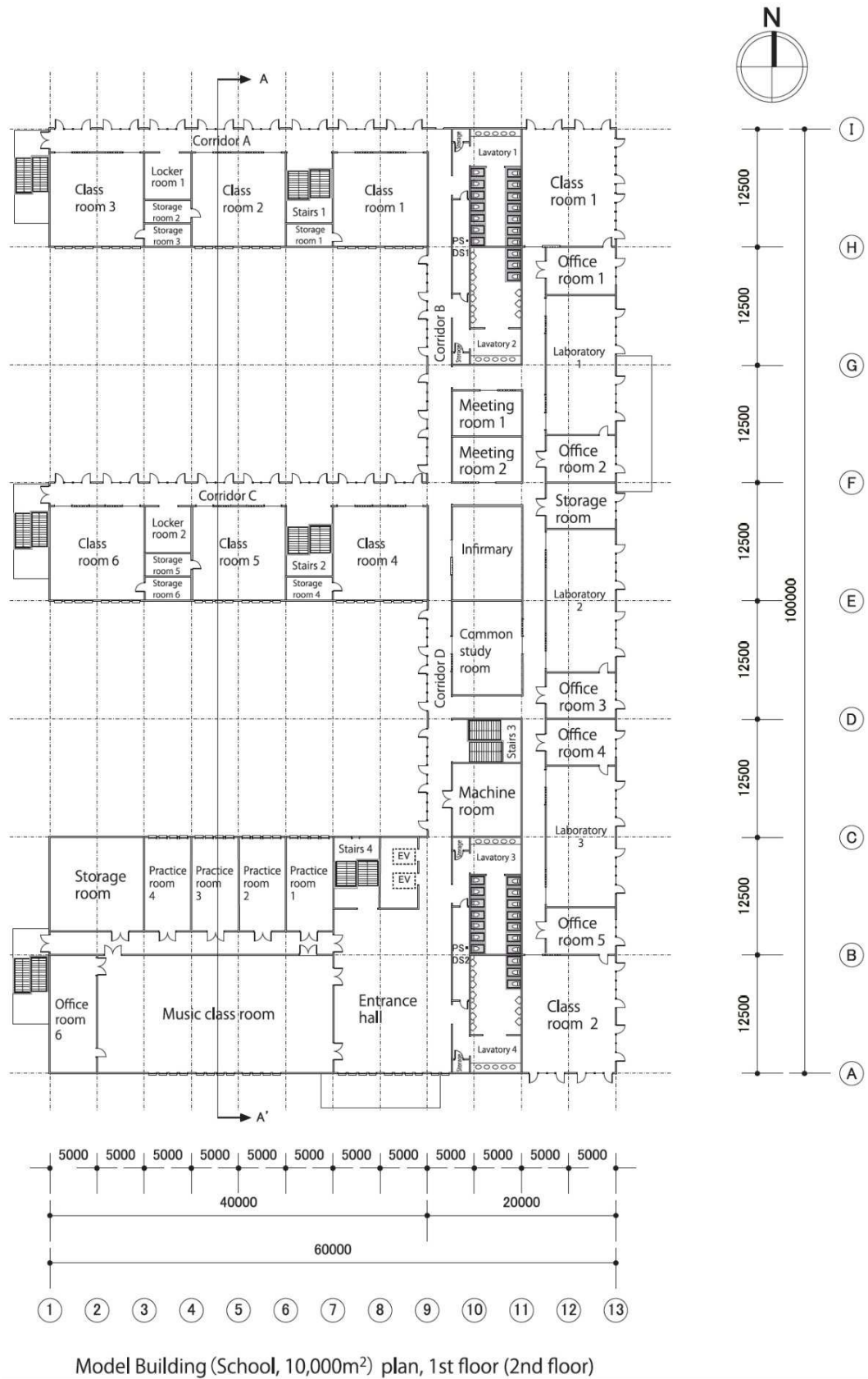
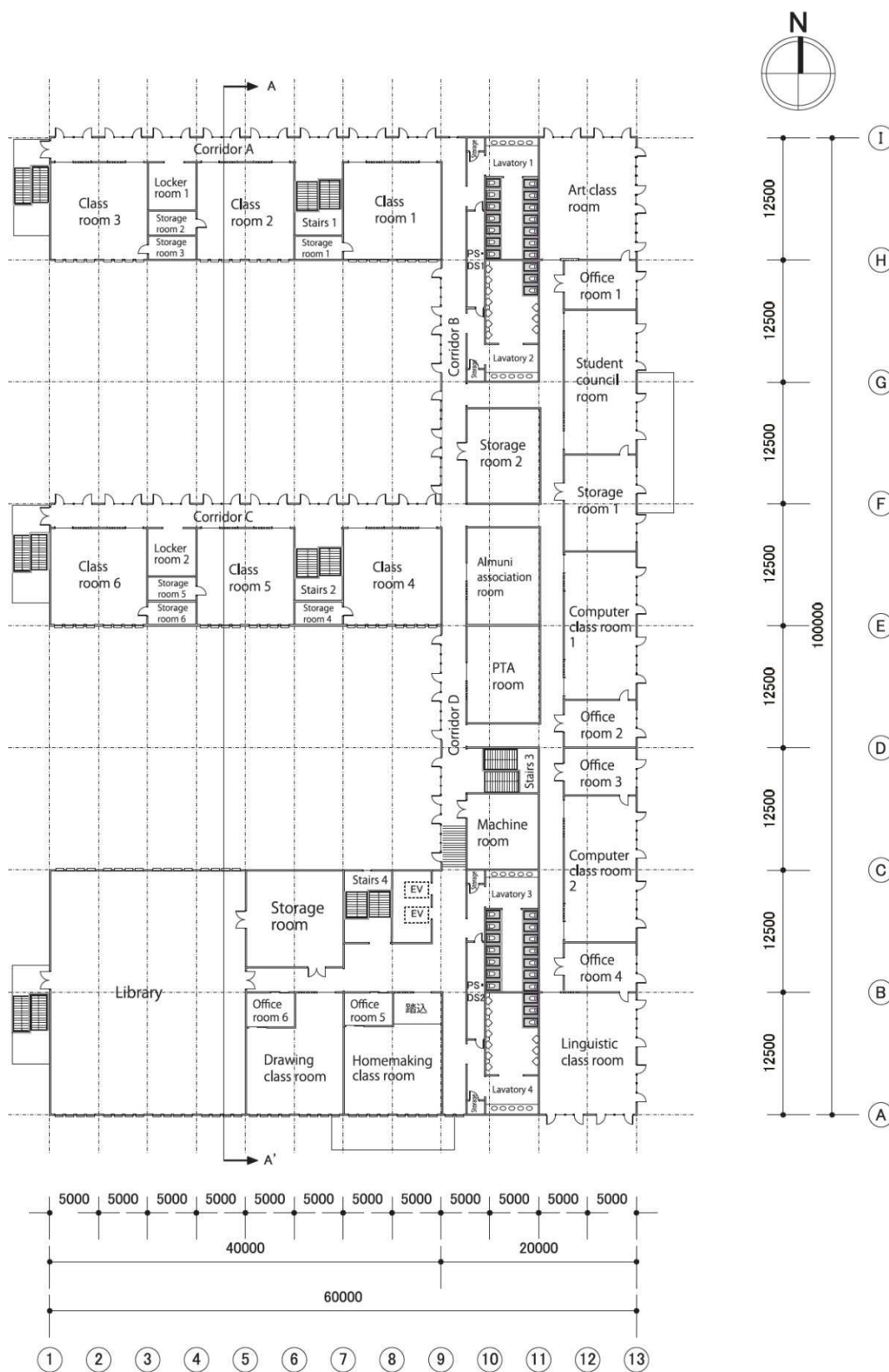


Figure E.40 — Model building (school, 10 000 m²) plan, first floor (second floor)

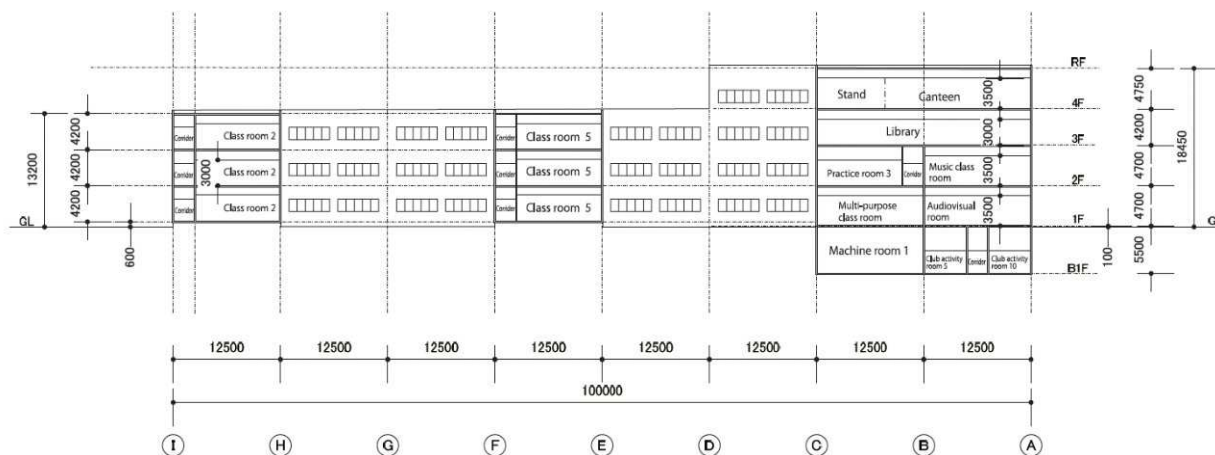


Model Building (School, 10,000m²) plan, 2nd floor (3rd floor)

Figure E.41 — Model building (school, 10 000 m²) plan, second floor (third floor)



Figure E.42 — Model building (school, 10 000 m²) plan, third floor (fourth floor)



Model Building (School, 10,000m²) A-A' section

Figure E.43 — Model building (school, 10 000 m²) A-A' section

Table E.10 — Window size and layout (school, 10 000 m²)

Window Size and Layout (School, 10,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Class room 1, Class room 2, Class room 3, Class room 4, Class room 5, Class room 6	S	6	1.2	0.9	1.8	1.62	9.72
1F	Multi-purpose class room	N	12	1.2	0.9	2.3	2.07	24.84
1F	Audiovisual room	S	12	1.2	0.9	2.3	2.07	24.84
1F	Entrance hall 2	S	2	0.3	1.8	3.2	5.76	11.52
		S	1	0	8.1	3.5	28.35	28.35
		N	1	1.2	0.9	2.3	2.07	2.07
1F	Stairs 4	N	1	-	0.9	0.5	0.45	0.45
1F	Corridor A	N	8	1.2	3.6	1.4	5.04	40.32
1F	Corridor B	W	2	1.2	9.9	1.4	13.86	27.72
1F	Corridor C	N	8	1.2	3.6	1.4	5.04	40.32
1F	Corridor D	W	2	1.2	9.9	1.4	13.86	27.72
1F	Meeting room	N	2	1.2	3.6	1.8	6.48	12.96
		E	2	1.2	9.9	1.8	17.82	35.64
1F	Entrance hall 1	E	1	0	10.8	3	32.4	32.4
1F	Drawing room 1	E	1	1.2	9.9	1.8	17.82	17.82
1F	Changing room 1	E	2	1.2	0.9	1.8	1.62	3.24
1F	Staff room	E	2	1.2	9.9	1.8	17.82	35.64
		E	1	1.2	4.5	1.8	8.1	8.1
1F	踏込	E	1	1.2	3.6	1.8	6.48	6.48
2F	Class room 1, Class room 2, Class room 3, Class room 4, Class room 5, Class room 6	S	8	1.2	0.9	1.8	1.62	12.96
2F	Practice room 1, Practice room 2, Practice room 3, Practice room 4	N	4	1.2	0.9	1.8	1.62	6.48
2F	Music class room	S	12	1.2	0.9	2.3	2.07	24.84
2F	Stairs 4	N	1	-	0.9	0.5	0.45	0.45
2F	Corridor A	N	8	1.2	3.6	1.4	5.04	40.32
		N	1	1.2	0.9	1.4	1.26	1.26
2F	Corridor B	W	2	1.2	9.9	1.4	13.86	27.72
2F	Corridor C	N	8	1.2	3.6	1.4	5.04	40.32
2F	Corridor D	W	2	1.2	9.9	1.4	13.86	27.72
2F	Entrance hall	S	10	1.2	0.9	2.3	2.07	20.7
2F	Class room 1	N	2	1.2	3.6	1.8	6.48	12.96
		E	1	1.2	9.9	1.8	17.82	17.82
2F	Office room 1, Office room 2, Office room 3, Office room 4, Office room 5	E	1	1.2	2.7	1.8	4.86	4.86
2F	Laboratory 1, Laboratory 2, Laboratory 3	E	2	1.2	4.5	1.8	8.1	16.2
2F	Storage room	E	1	1.2	2.7	1.8	4.86	4.86
2F	Class room 2	E	1	1.2	4.5	1.8	8.1	8.1
		E	1	1.2	3.6	1.8	6.48	6.48
		S	2	1.2	3.6	1.8	6.48	12.96

Table E.10 (continued)

Window Size and Layout (School, 10,000m²)(続き)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
3F	Class room 1, Class room 2, Class room 3, Class room 4, Class room 5, Class room 6	S	8	1.2	0.9	1.8	1.62	12.96
3F	Library	S	16	1.2	0.9	1.8	1.62	25.92
		N	16	1.2	0.9	1.8	1.62	25.92
3F	Drawing class room	S	8	1.2	0.9	1.8	1.62	12.96
3F	Homemaking class room	S	8	1.2	0.9	1.8	1.62	12.96
3F	Stairs 4	N	1	-	0.9	0.5	0.45	0.45
3F	Corridor A	N	8	1.2	3.6	1.4	5.04	40.32
		N	1	1.2	0.9	1.4	1.26	1.26
3F	Corridor B	W	2	1.2	9.9	1.4	13.86	27.72
3F	Corridor C	N	8	1.2	3.6	1.4	5.04	40.32
3F	Corridor D	W	2	1.2	9.9	1.4	13.86	27.72
3F	Corridor E	S	2	1.2	0.9	1.4	1.26	2.52
3F	Art class room	N	2	1.2	3.6	1.8	6.48	12.96
		E	1	1.2	9.9	1.8	17.82	17.82
3F	Office room 1, Office room 2, Office room 3, Office room 4	E	1	1.2	2.7	1.8	4.86	4.86
3F	Student council room	E	2	1.2	4.5	1.8	8.1	16.2
3F	Storage room 1	E	2	1.2	2.7	1.8	4.86	9.72
3F	Computer class room 1, Computer class room 2	E	1	1.2	4.5	1.8	8.1	8.1
3F	Linguistic class room	E	1	1.2	4.5	1.8	8.1	8.1
		E	1	1.2	3.6	1.8	6.48	6.48
		S	2	1.2	3.6	1.8	6.48	12.96
4F	Canteen	S	16	1.2	0.9	2.3	2.07	33.12
		W	16	1.2	0.9	2.3	2.07	33.12
		N	12	1.2	0.9	2.3	2.07	24.84
4F	Stand	N	8	1.2	0.9	2.3	2.07	16.56
4F	Kitchen	S	8	1.2	0.9	1.8	1.62	12.96
4F	Changing room 1, Changing room 2	S	2	1.2	0.9	1.4	1.26	2.52
4F	Stairs 1	E	1	-	0.9	0.5	0.45	0.45
4F	Stairs 2	N	1	-	0.9	0.5	0.45	0.45
4F	Corridor	S	2	1.2	0.9	1.4	1.26	2.52
		W	1	1.2	9.9	1.4	13.86	13.86
4F	Lavatory 1, Lavatory 2	E	1	1.2	0.9	1.2	1.08	1.08

E.6.3 Example no. 11

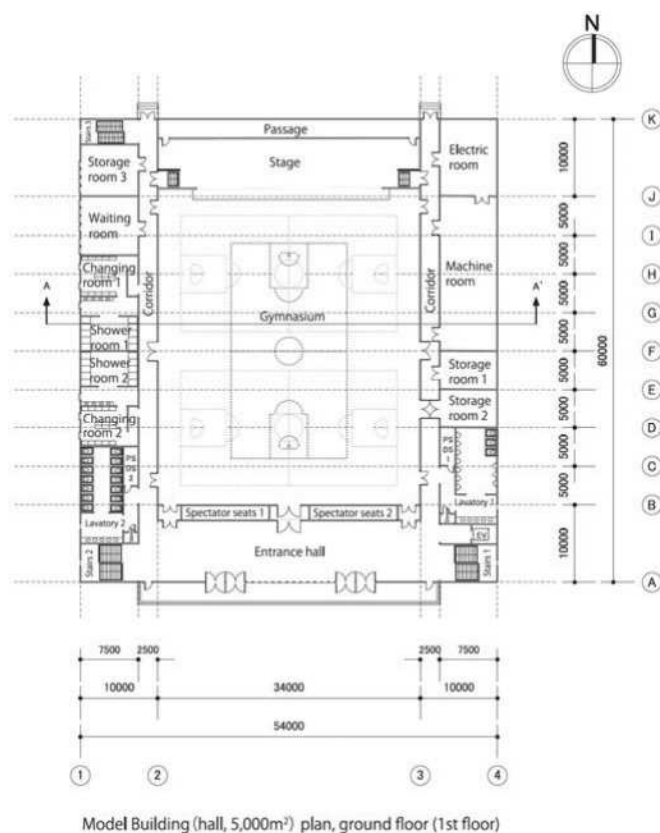


Figure E.44 — Model building (hall, 5 000 m²) plan, ground floor (first floor)

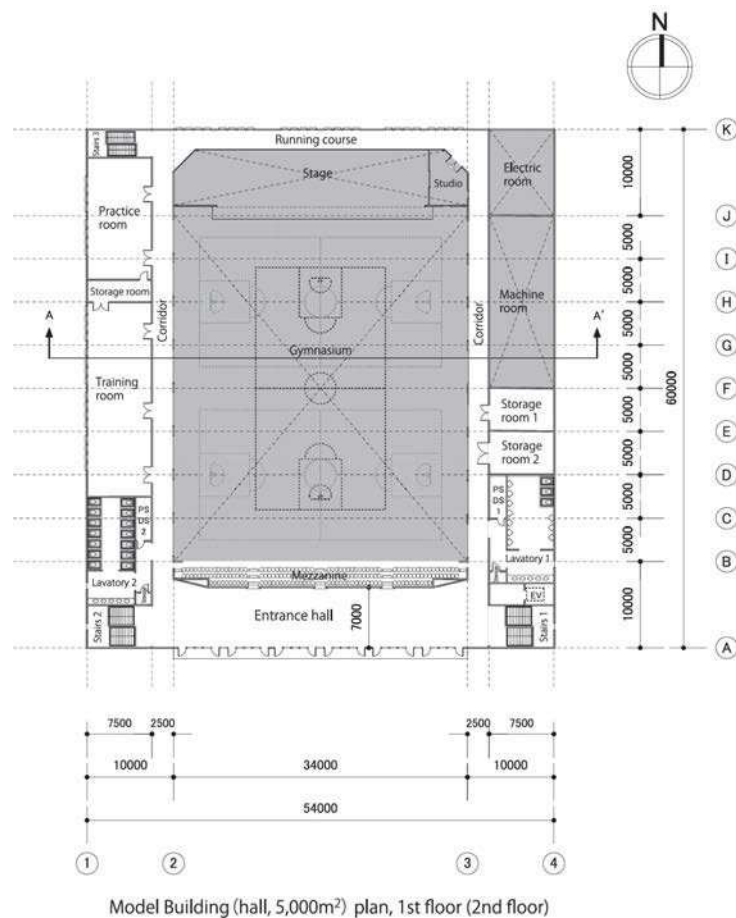


Figure E.45 — Model building (hall, 5 000 m²) plan, first floor (second floor)

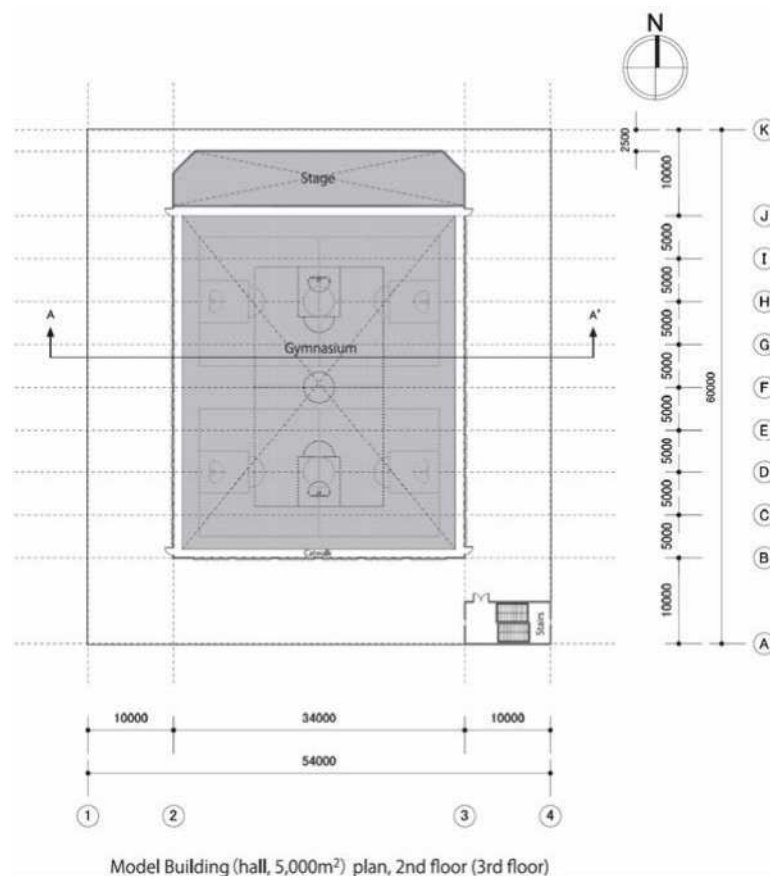


Figure E.46 — Model building (hall, 5 000 m²) plan, ground floor (first floor)

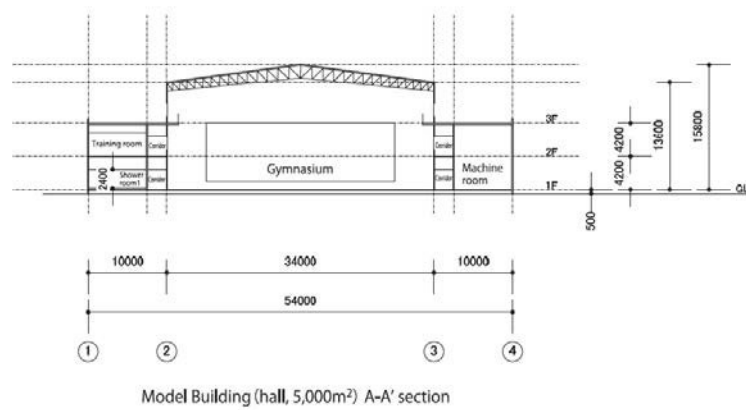


Figure E.47 — Model building (hall, 5 000 m²) A-A' section

Table E.11 — Window size and layout (hall, 5 000 m²)

Window Size and Layout (hall, 5,000m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance hall	S	1	0	21.7	3	65.1	65.1
1F	Storage room 3	W	4	1.2	0.9	1.8	1.62	6.48
1F	Waiting room	W	6	1.2	0.9	1.8	1.62	9.72
1F	Changing room 1	W	2	1.2	0.9	1.2	1.08	2.16
1F	Shower room 1, Shower room 2	W	1	1.2	0.9	1.2	1.08	1.08
1F	Changing room 2	W	2	1.2	0.9	1.2	1.08	2.16
1F	Lavatory 2	W	1	1.2	0.9	1.2	1.08	1.08
1F	Stairs 2	W	1	-	0.9	0.5	0.45	0.45
1F	Stairs 3	W	1	-	0.9	0.5	0.45	0.45
1F	Lavatory 1	E	1	1.2	0.9	1.2	1.08	1.08
1F	Stairs 1	E	1	-	0.9	0.5	0.45	0.45
2F	Entrance hall	S	3	1.2	9.9	1.8	17.82	53.46
2F	Practice room	W	8	1.2	0.9	1.8	1.62	12.96
2F	Training room	W	16	1.2	0.9	1.8	1.62	25.92
2F	Lavatory 2	W	1	1.2	0.9	1.2	1.08	1.08
2F	Stairs 2	W	1	-	0.9	0.5	0.45	0.45
2F	Lavatory 1	E	1	1.2	0.9	1.2	1.08	1.08
2F	Stairs 1	E	1	-	0.9	0.5	0.45	0.45
3F	Stairs	W	1	-	0.9	0.5	0.45	0.45
3F	Stairs	W	1	-	0.9	0.5	0.45	0.45
3F	Catwalk	E	31	-	0.9	1.8	1.62	50.22
		S	24	-	0.9	1.8	1.62	38.88
		W	31	-	0.9	1.8	1.62	50.22

E.7 Examples of restaurant building

E.7.1 Example no. 12

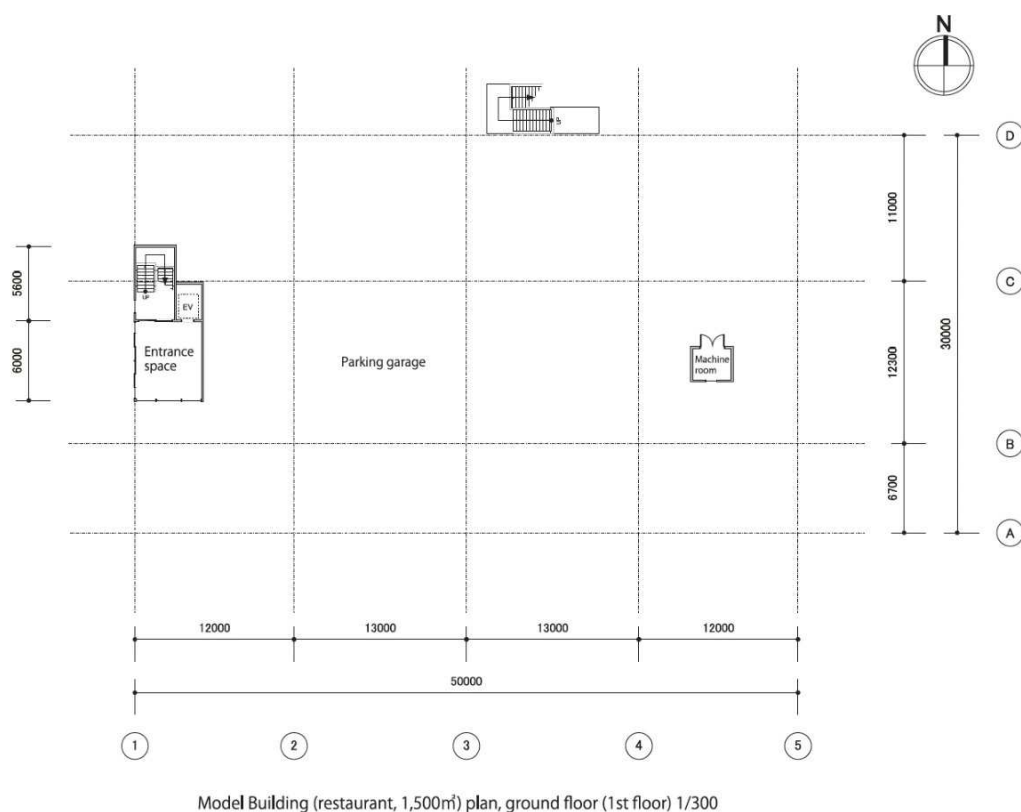


Figure E.48 — Model building (restaurant, 1 500 m²) plan, ground floor (first floor) 1/300

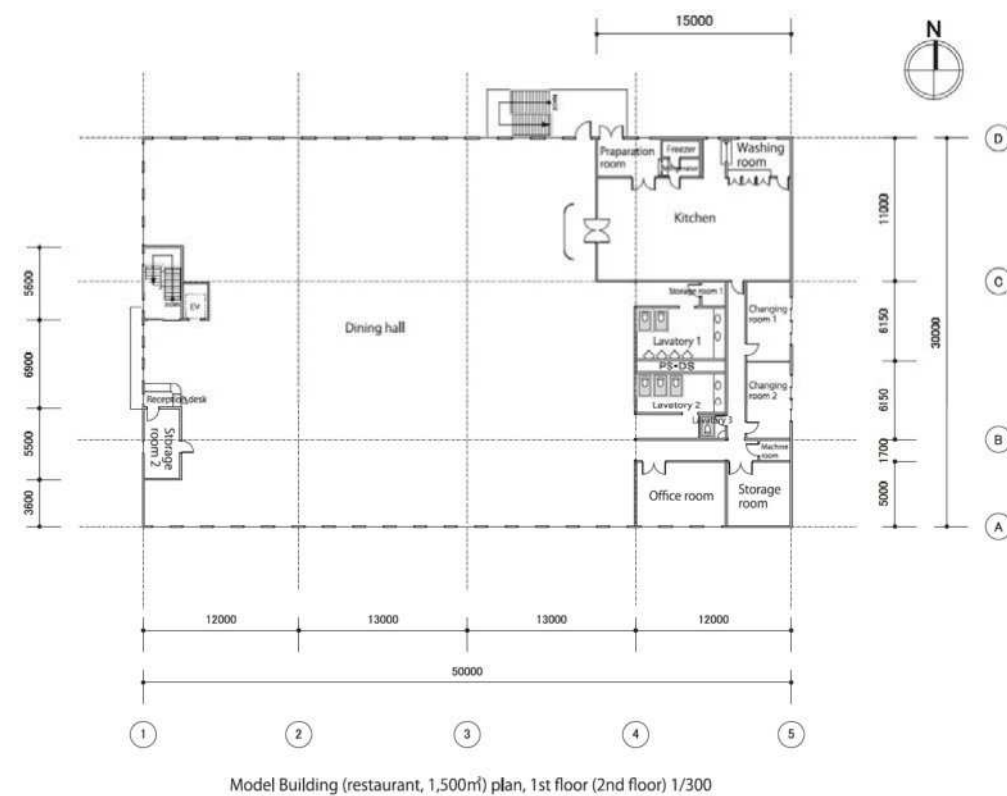


Figure E.49 — Model building (restaurant, 1 500 m²) plan, first floor (second floor) 1/300

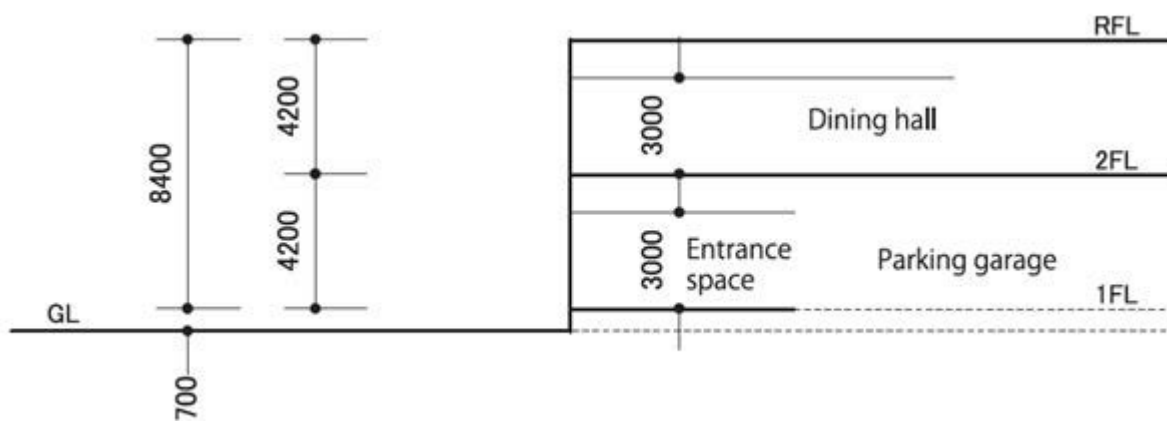


Figure E.50 — Model building (restaurant, 1 500 m²) section 1/300

Table E.12 — Window size and layout (restaurant, 1 500 m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance space	S	1	0	5.8	3	17.4	17.4
		E	1	0.3	5	2.7	13.5	13.5
1F	Stairs	W	2	–	1	2	2	4
1F	Machine room	S	1	1.5	0.9	1.2	1.08	1.08
2F	Dining hall	N	13	1	1.5	2	3	39
		W	4	1	1.5	2	3	12
		W	4	1	1	2	2	8
		S	16	1	1.5	2	3	48
2F	Stairs	W	2	–	1	2	2	4
2F	Storage room 2	W	1	1	1	2	2	2
2F	Preparation room	N	1	1.5	1	1.2	1.2	1.2
2F	Washing room	N	2	1.5	1	1.2	1.2	2.4
2F	Kitchen	N	1	1.5	1	1.2	1.2	1.2
2F	Changing room 1	W	2	1.5	1.8	1.8	3.24	6.48
2F	Changing room 2	W	2	1.5	1.8	1.8	3.24	6.48
2F	Office room	S	3	1	1.5	2	3	9

E.7.2 Example no. 13

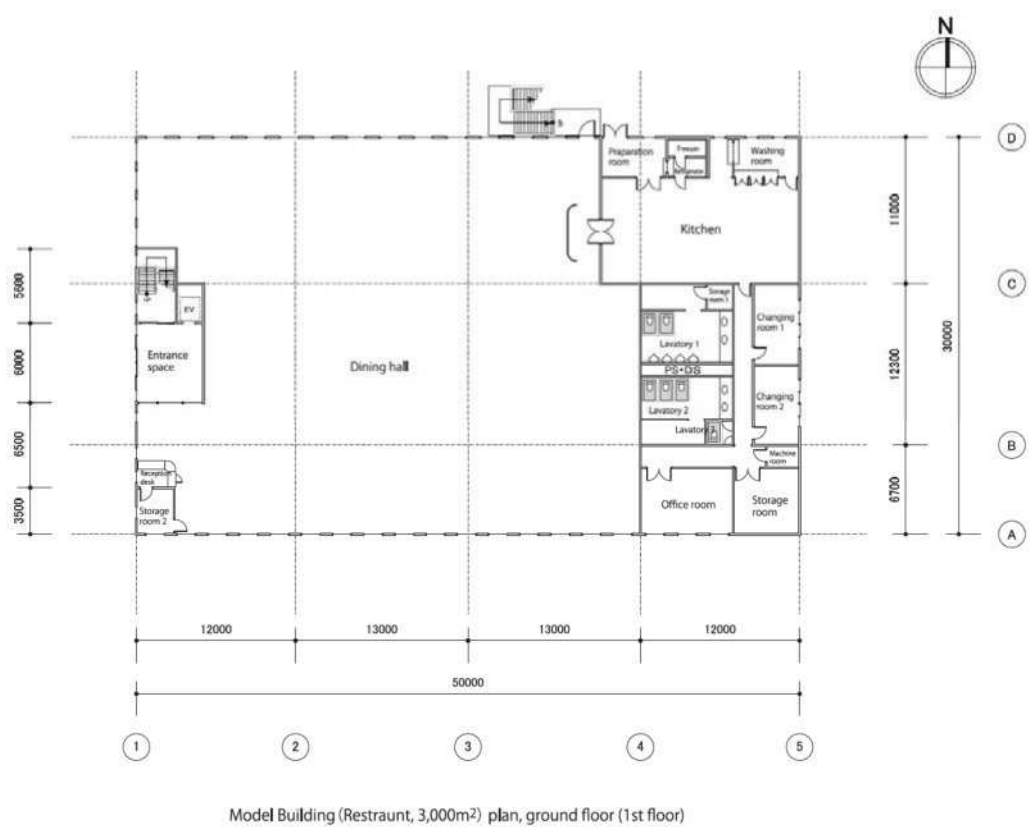


Figure E.51 — Model building (restaurant, 3 000 m²) plan, ground floor (first floor)

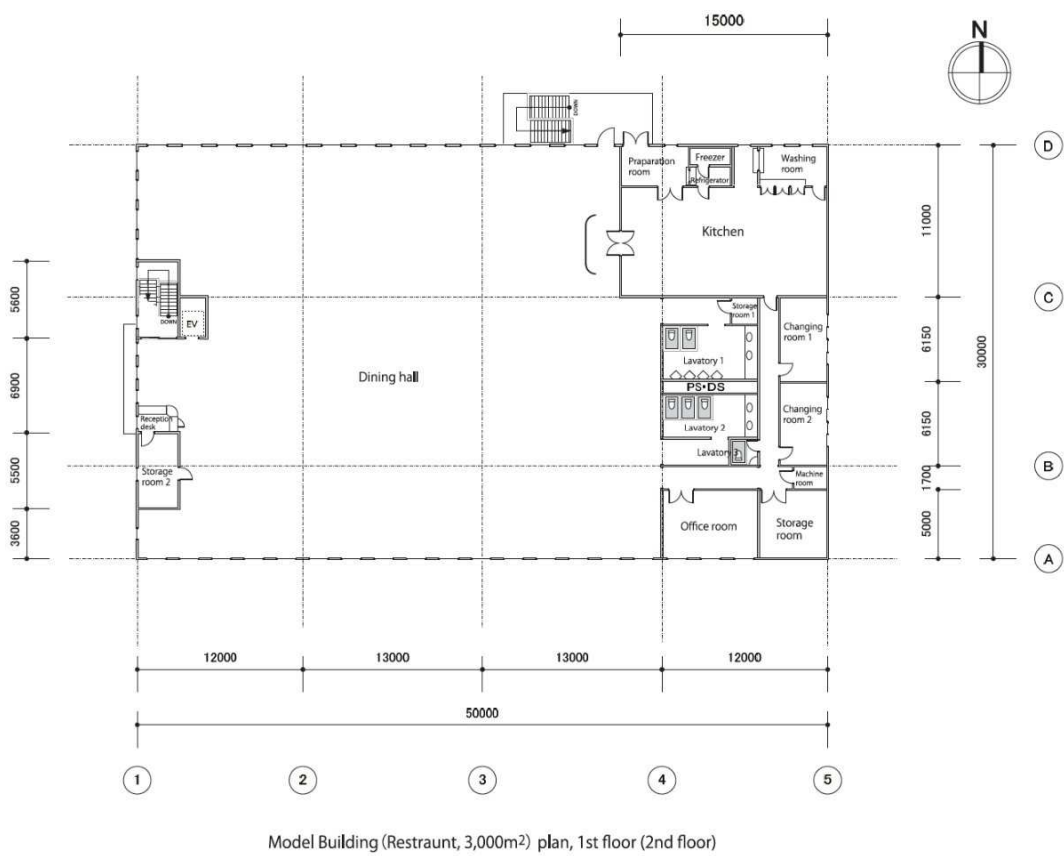


Figure E.52 — Model building (restaurant, 3 000 m²) plan, first floor (second floor)

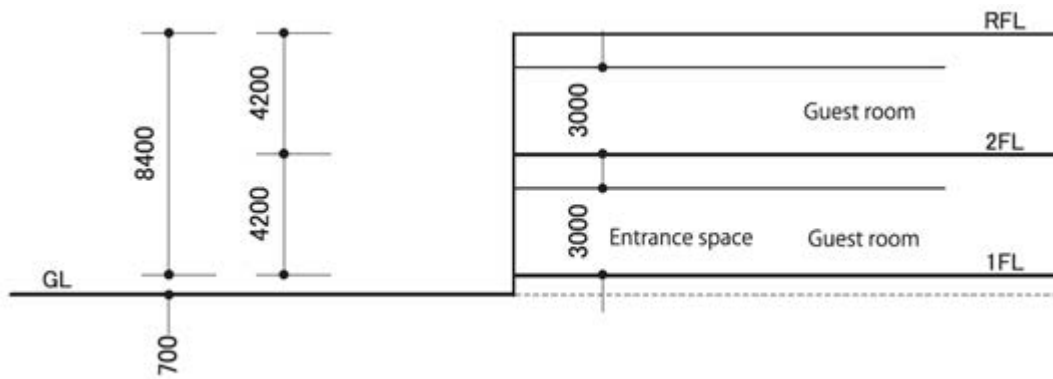


Figure E.53 — Model building (restaurant, 3 000 m²) A-A' section

Table E.13 — Window size and layout (restaurant, 3 000 m²)

Floor	Room name	Direction	the number of window surface	window size (m)			Area [m ² /window]	Area [m ² /room]
				Gap from floor	Width	Height		
1F	Entrance space	W	1	0.3	5	2.7	13.5	13.5
1F	Stairs	W	2	—	1	2	2	4
1F	Dining hall	N	13	1	1.5	2	3	39
		W	4	1	1.5	2	3	12
		W	3	1	1	2	2	6
		W	15	1	1.5	2	3	45
1F	Stairs	W	2	—	1	2	2	4
1F	Storage room 2	W	1	1	1	2	2	2
		S	1	1	1.5	2	3	3
1F	Preparation room	N	1	1.5	1	1.2	1.2	1.2
1F	Washing room	N	2	1.5	1	1.2	1.2	2.4
1F	Kitchen	N	1	1.5	1	1.2	1.2	1.2
1F	Changing room 1	W	2	1.5	1.8	1.8	3.24	6.48
1F	Changing room 2	W	2	1.5	1.8	1.8	3.24	6.48
1F	Office room	S	3	1	1.5	2	3	9
2F	Dining hall	N	13	1	1.5	2	3	39
		W	4	1	1.5	2	3	12
		W	5	1	1	2	2	10
		S	16	1	1.5	2	3	48
2F	Stairs	W	2	—	1	2	2	4
2F	Storage room 2	W	1	1	1	2	2	2
2F	Preparation room	N	1	1.5	1	1.2	1.2	1.2
2F	Washing room	N	2	1.5	1	1.2	1.2	2.4
2F	Kitchen	N	1	1.5	1	1.2	1.2	1.2
2F	Changing room 1	W	2	1.5	1.8	1.8	3.24	6.48
2F	Changing room 2	W	2	1.5	1.8	1.8	3.24	6.48
2F	Office room	S	3	1	1.5	2	3	9

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