BSI BS*1635 90 ■ 1624669 0194063 8 ■

BSI

BS 1635 : 1990

UDC [003.083 + 003.62] :
744.1 : 614.84 : 699.81

© British Standards Institution. No part of this publication may be photocopied or otherwise reproduced without the prior permission in writing of BSI

British Standard Recommendations for

Graphic symbols and abbreviations for fire protection drawings

Symboles graphiques et abréviations pour schémas de protection contre l'incendie – Recommandations

Brandschutz; graphische Symbole und Abkürzungen in Zeichnungen

British Standards Institution

Sat Jul 05 11:39:29 2003

Foreword

This British Standard has been prepared under the direction of the Fire Standards Policy Committee. It supersedes BS 1635: 1970, which is withdrawn. In its preparation, consideration has been given to ISO 6790 'Graphical symbols for fire protection plans', published by the International Organization for Standardization (ISO). The symbols agreed by ISO have been used wherever possible, and additional information (tables 7, 8 and 9) included as this was within the scope of the 1970 edition.

The opportunity has also been taken to change the format so that it conforms with the style of BS 1192 : Part 3 : 1987.

Although based on the principles set out in ISO 6790, this British Standard incorporates precedents that exist in British practice, particularly in the use of qualifying or explanatory abbreviations, and adopts the rationale proposed in BS 1192, and restated in this standard. Graphic conventions proposed by ISO or other authorities that do not conform either to the stated rationale or to national precedent have not been included. The symbols taken from ISO 6790 without modification are noted with an asterisk.

The names given to symbols have wherever possible been derived from BS 4422 and the wording used in group 9, Fire safety signs, complies with BS 5499 : Part 1.

Compliance with a British Standard does not itself confer immunity from legal obligations.

BSI BS*1635 90 ■ 1624669 0194065 1 ■

Contents

Sat Jul 05 11:41:24 2003

Section one. General

1 Scope

This British Standard, which is primarily intended for those preparing drawings, gives recommendations for symbols and other graphic conventions for use on drawings for fire protection purposes.

The recommendations include the production of graphical symbols to be used on fire protection drawings in architectural, engineering, building and allied design fields. Details are provided of equipment for fire protection, fire fighting and means of escape on drawings for design, construction, renovation or fire certification purposes.

It also describes a rationale of symbolism (clause **3**) which establishes rules for the design of symbols and other graphic conventions, and gives recommendations for the application of those rules and the ways in which symbolism should be used (clause **4**).

Appendix A gives an example (for information only) of a drawing using some of these symbols.

NOTE. The titles of the publications referred to in this standard are listed on the inside back cover.

2 Definitions

For the purposes of this British Standard the definitions given in BS 1192: Part 1, and BS 4422 apply, together with the following definitions and explanations which are taken from BS 1192: Part 3.

2.1 convention. An accepted way of drawing an item which may have the nature of a representation, a simplified representation or a symbol.

2.2 information device. A convention indicating an abstract item.

2.3 representation. A scale view of an object.

2.4 simplified representation. A scale view incorporating only the essential shape, size or features of an object.

2.5 symbol. A graphic device without scale used:

(a) on a drawing to indicate the occurrence and/or location of an item;

(b) in an annotation to indicate one or more of the attributes of an item.

2.6 symbol element (element). A graphic device without scale used only in combination with a symbol (or symbols) or with other elements, to form a symbol.

3 Rationale

3.1 Indication of all features of an object

Although all the features of an object (subject to the limitations of the scale of the drawing) can be shown on a detailed pictorial view (a representation, see **2.3**), there are usually other attributes of the object which need to be described, annotated or referred to in other documents.

3.2 Limited indication of the features of an object

To reduce drawing effort and time, a pictorial view such as that described in **3.1** can sometimes, as appropriate, be limited in detail (a simplified representation, see **2.4**) but can still need a description, annotation or reference.

3.3 Non-realistic indication of objects

To reduce drawing effort and time still further for an object of which the size is not significant on a drawing, especially if many such objects occur, the object can be indicated non-realistically by using a symbol (see **2.5**).

3.4 Symbols sharing common subsidiary features

Some symbols share common subsidiary features; this British Standard refers to these features as elements (see **2.6**). These can be incorporated in new symbols, can be added to established symbols or can be combined with other elements as needed.

A symbol element should not be used in isolation.

3.5 Types of symbol

The simplest form of symbol is the basic symbol. More complex types of symbol are derived from the basic symbol. There are three ways of deriving symbols:

(a) by embellishment of a basic symbol;

(b) by a combination of basic symbols;

(c) by extension of a basic symbol.

Figure 1 gives examples of symbols/elements and constructed symbols.

3.6 Conventions showing abstract items

Conventions showing abstract items are referred to as information devices (**2.2**).

3.7 Comparison between representations, simplified representations and symbols

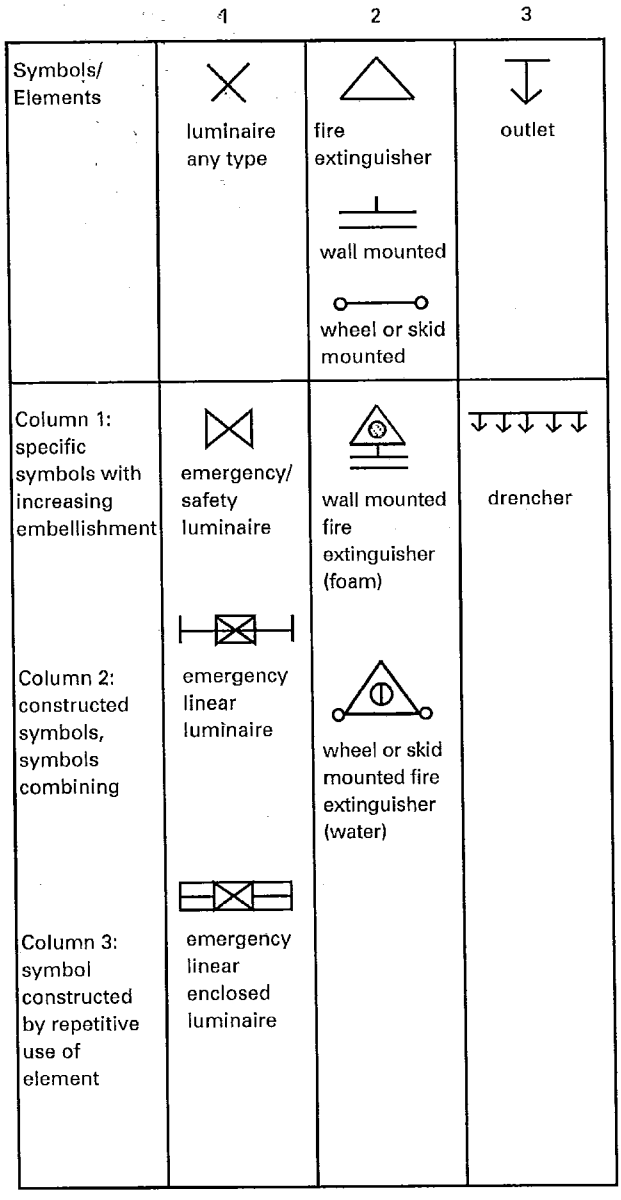
Figure 2 shows a comparison between representations, simplified representations and symbols.

4 Design and use of symbolism

4.1 Graphic simplicity

4.1.1 The amount of detail in representation should be appropriate to the scale of the drawing, taking account of the recommendations of BS 1192: Part 1 regarding clarity of reproduction and microfilming.

Sat Jul 05 11:41:30 2003



NOTE. The elements and symbols given in column 1 are shown in table **8.1**

Figure 1. Examples of symbols/elements and constructed symbols

Sat Jul 05 11:41:36 2003

4.1.2 The amount of detail in a simplified representation should be limited to the essential attributes of the object (see **2.4** and figure 2).

4.1.3 Geometric shapes for information devices, elements and symbols are limited. Precedent (see the introduction) can establish that one shape can have several meanings, the relevant meaning being determined normally by context and experience.

A geometric shape should not be used if its meaning is not determined by context and experience.

4.1.4 Over-complexity of information devices, elements and symbols should be avoided by one of the following methods:

(a) omitting unnecessary information (for example, if all the items in a project are of the same type);

(b) annotating differences between one item and another;

(c) referring differences to a schedule or other document.

4.2 Symbols (including elements of symbols)

4.2.1 The size of a symbol does not necessarily relate to the size of an object, nor to the scale of a drawing.

4.2.2 The shape of a symbol does not necessarily relate to the shape of an object.

4.2.3 A symbol does not necessarily indicate graphically all the attributes of an item (see **4.1.4** and figure 3).

4.2.4 A symbol can be combined with an element or a symbol to form another symbol. (See figure 3.)

4.2.5 A symbol can be added to a convention, a representation, a simplified representation or another symbol. (See figure 3.)

4.3 Graphics

4.3.1 The illustrations in section two (the compendium) indicate the size of symbolism that should typically be used on drawings to a scale of 1:100. Account has been taken, in the light of evaluation tests, of producing symbolism by:

(a) manual drawing using a 0.35 mm pen, including the manufacture of suitable templates (stencils);

(b) computer drawing;

(c) using dry transfer.

4.3.2 Graphic techniques should follow the recommendations in BS 1192: Part 1, and in particular:

(a) line thickness should be not less than 0.25 mm on drawings to be reproduced without reduction or to be microfilmed;

(b) line thickness should be not less than 0.35 mm on drawings to be reduced by up to 50 %;

(c) if different line thicknesses are used, each thickness should be at least twice the next thinner line;

(d) the space between lines should be not less than 0.7 mm;

(e) inclined lines should be at an angle of 15° or a multiple of 15°;

(f) solidly filled areas should be kept to a minimum (because they tend to disappear in successive reproductions): hatching is preferred;

(g) lettering (including numbers) should have a capital height of:

(1) not less than 2.5 mm for drawings as in (a) above;

(2) not less than 3.5 mm for drawings as in (b) above.

4.3.3 The orientation of an element should always be as shown in section two (the compendium), but the orientation of other types of symbolism should not be regarded as affecting the meaning of the symbolism concerned.

4.4 Authority

4.4.1 Each drawing or set of drawings which uses symbolism drawn from this British Standard, should include a statement to that effect in the information panel of the drawing concerned.

4.4.2 Symbols derived from symbols in this standard should be illustrated and their meaning should be clearly explained on the drawings concerned. Care should be exercised to ensure that derived symbols do not become over-complicated.

4.4.3 Where additional symbols are used to those presented in this British Standard, e.g. from BS 1553: Part 1, BS 1192: Part 3 or BS 3939: Part 11, a statement to that effect should be included in the information panel of the drawing concerned, the symbol should be illustrated and its meaning should be clearly explained on the drawing.

5 Presentation of the compendium

5.1 General

Section two comprises a compendium of symbols and other graphic conventions that are recommended for use on fire protection drawings. Examples of the application of symbols are given as appropriate.

The compendium is organized by subject area.

5.2 Background matrix

5.2.1 Elements or symbols having significant relative

Sat Jul 05 11:41:42 2003

sizes are illustrated against a matrix of 4 mm squares.

5.2.2 The background to some elements and symbols incorporates additional lines to indicate, as appropriate, how they should:

(a) be drawn;

(b) relate to the context in which they occur.

5.3 Reference system

5.3.1 Tables are grouped in broad categories in groups, and the group number is the first digit of the table number.

5.3.2 The second digit of the table number identifies that table within its group.

5.3.3 Elements are numbered sequentially within their table of origin, with E interposed between the table number and the sequential number.

5.3.4 Conventions and symbols are numbered sequentially (always with two digits) within their table of origin, the sequential number being suffixed to the table number.

5.3.5 Elements and symbols originating in other tables and used in a table are only listed in that table; they are illustrated in their tables of origin.

5.3.6 Applications illustrate examples of conventions and symbols in use, and are not numbered.

5.3.7 The numbers of the elements and symbols used in applications are listed.

5.4 Arrangement of tables

The contents of each table are arranged in the following order:

(a) elements;

(b) elements and symbols from other tables;

(c) conventions;

(d) symbols;

(e) simplified representations;

(f) applications.

NOTE. Not every table includes all these contents.

Sat Jul 05 11:41:48 2003

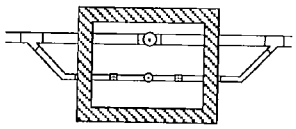
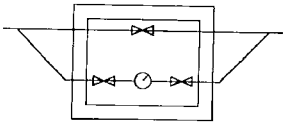
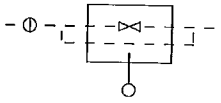
Item	Representation	Simplified representation	Symbol
Fire main with meter on by-pass			

Figure 2. Comparison between representation, simplified representation and symbol

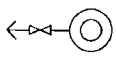
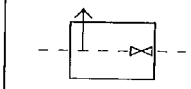
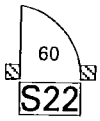
Item	Symbolism	Component parts of symbolism			
		Elements	Conventions	Symbols	Simp. Rep'ns.
Dry riser landing valve		2.2E1 3.1E4	–	3.102	–
Ground hydrant on pipe below ground		2.2E1 3.1E1 3.1E3 3.1E4	1.104	–	–
Fire door with exit sign		7.1E2	–	7.105 7.120 9.101	–

Figure 3. Formation of symbols from elements, conventions, symbols and simplified representations

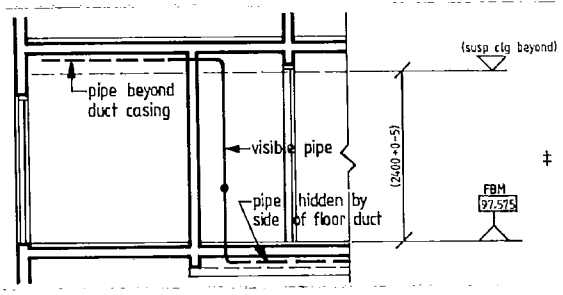
Sat Jul 05 11:41:54 2003

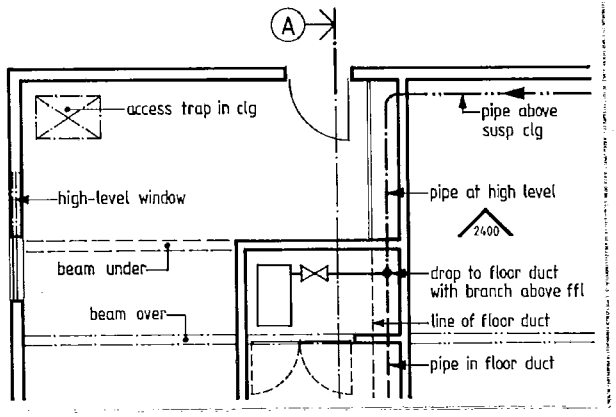
Section two. Compendium

Group 1. Information devices

Table 1.1 Convention for indicating zones

Conventions	Applications*
1.101 **behind cutting plane, hidden**	Example of cut (A-A on plan below)
1.102 **behind cutting plane, visible**	
1.103 **beyond cutting plane, visible**	Example of plan
1.104 **beyond cutting plane, hidden**	





*Only part of the cut and plan drawing is shown.
†The cutting plane is not usually drawn on cuts, elevations and sections.
‡Floor bench mark (see BS 5606).

Sat Jul 05 11:42:00 2003

BS 1635:1990

Group 2. Fire extinguishing devices

Table 2.1 Portable and transportable equipment

Elements	Symbols	Applications
2.1E1 **water**	2.101 **any type** *	Any type, portable freestanding 2.101
2.1E2 **foam** *	2.102 **water**	Any type, portable wall mounted 2.101, 2.1E9
2.1E3 **powder, any type** *	2.103 **foam** *	Any type, transportable 2.101, 2.1E10
2.1E4 **BC powder**	2.104 **powder** *	
2.1E5 **ABC powder** *	2.105 **BC powder**	
2.1E6 **gas, any type** *	2.106 **ABC powder** *	
2.1E7 **halon gas** *	2.107 **gas** *	
2.1E8 **carbon dioxide gas** *	2.108 **halon gas** *	
2.1E9 **wall mounted**	2.109 **carbon dioxide gas** *	
2.1E10 **transportable wheel or skid mounted**	2.110 **water bucket** *	
2.1E11 **blanket**	2.111 **sand bucket** *	
	2.112 **fire blanket**	

*From ISO 6790.

Sat Jul 05 11:42:06 2003

Group 2. Fire extinguishing devices

Table 2.2 Fixed systems

Elements	Symbols	Applications
2.2E1 **outlet** *	2.201 **fixed system, any type** *	Fixed system any type, local application 2.2E1, 2.201 *
2.2E2 **inlet** *	2.202 **fixed system, water**	Drencher system, any type 2.2E1, 2.201
2.2E3 **total application** *	2.203 **fixed system, foam** *	Fixed system, manually actuated 2.208, 2.201
2.2E4 **actuator any type**	2.204 **fixed system, powder** *	
2.2E5 **electrical operation**	2.205 **fixed system, gas** *	
2.2E6 **hydraulic operation**	2.206 **electrical actuator**	
2.2E7 **manual operation**	2.207 **hydraulic actuator**	
2.2E8 **mechanical operation**	2.208 **manual actuator**	
2.2E9 **pneumatic operation**	2.209 **mechanical actuator**	
2.2E10 **thermal operation**	2.210 **pneumatic actuator**	
	2.211 **thermal actuator**	

Elements and symbols from other tables
2.1E1 Water
2.1E2 Foam
2.1E3 Powder
2.1E6 Gas

*From ISO 6790.

Sat Jul 05 11:42:11 2003

BS 1635:1990

Group 3. Fire fighting devices

Table 3.1 Fire fighting equipment

Elements	Symbols	Applications
3.1E1 **pipe below ground** (see 1.104)	3.101 **fire main or riser, any type** *	Dry fire main, landing valve 3.102, 3.1E3, 2.2E1
3.1E2 **pipe above ground**	3.102 **fire main, dry** *	foam inlet 3.104, 2.2E2
3.1E3 **chamber in ground**	3.103 **fire main, wet**	Underground fire main, water 3.1E1, 2.1E1
3.1E4 **valve** *	3.104 **fire main, foam** *	Underground fire main, foam 3.1E1, 2.1E2
3.1E5 **indicator or meter**	3.105 **ground hydrant, in chamber, single**	Hosereel, 45 m long 3.110, 3.1E6 (45)
3.1E6 **length of hose in metres** (45)	3.106 **ground hydrant, in chamber, double**	Underground fire main with metered by pass 3.1E4, 3.1E1, 3.101, 3.1E3, 2.1E1
3.1E7 **non-return check valve**	3.107 **pillar hydrant, single**	
	3.108 **pillar hydrant, double**	
	3.109 **fire point** *	
	3.110 **hosereel**	

Elements and symbols from other tables

2.1E1 water

2.1E2 foam

2.2E1 outlet

2.2E2 inlet

* From ISO 6790.

Sat Jul 05 11:42:18 2003

Group 4. Fire alarm devices

Table 4.1 Control and indicating equipment

Elements	Symbols
4.1E1 **sounder**	4.101 **control panel any type**
4.1E2 **illuminated signal**	4.102 **control panel, sounders**
	4.104 **control panel illuminated signals**
	4.104 **control panel sounders and illuminated signals**

*From ISO 6790.

Sat Jul 05 11:42:24 2003

BS 1635:1990

Group 4. Fire alarm devices

Table 4.2 Initiating equipment

Elements	Symbols
4.2E1 **smoke**	4.201 **detector, any type**
4.2E2 **flame**	4.202 **heat detector**
4.2E3 **beam**	4.203 **smoke detector**
	4.204 **flame detector**
	4.205 **gas detector**
	4.206 **fire alarm call point, manual**
	4.207 **beam detector**

Elements and symbols from other tables
2.1E6 gas
2.208 manual actuator
2.2E10 Thermal operation

* From ISO 6790.

Sat Jul 05 11:42:30 2003

Group 4. Fire alarm devices

Table 4.3 Warning equipment

Elements	Symbols	Applications
4.3E1 **manual sounder**	4.301 **warning device, any type** *	Telephone with flashing light 4.301, 4.3E4, 4.1E2
4.3E2 **electric bell** *	4.302 **warning device, manual sounder**	
4.3E3 **loudspeaker** *	4.303 **warning device, sounder** *	
4.3E4 **telephone** *	4.304 **warning device, bell** *	
	4.305 **warning device loudspeaker** *	
	4.306 **warning device, telephone** *	
	4.307 **warning device, visual** *	

Elements and symbols from other tables
4.1E1 sounder
4.1E2 illuminated signal

* From ISO 6790.

Sat Jul 05 11:42:36 2003

Group 5. Means of escape

Table 5.1 Routes

Elements		Symbols		
5.1E1 **directional arrow**	→	5.101 **escape route**	– – – *	
		5.102 **escape route, direction to follow**	– → – *	
		5.103 **escape route, final exit**	– – → *	

*From ISO 6790.

Sat Jul 05 11:42:42 2003

Group 6. Risk areas

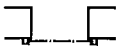
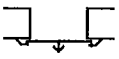
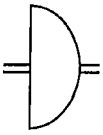
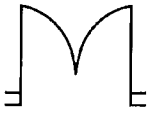
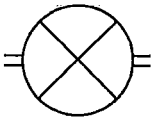
Table 6.1 Fire and explosion

Elements		Symbols	
6.1E1 **flammable materials**	FM	6.101 **general hazard warning**	!
6.1E2 **oxidizing materials**	OM	6.102 **flammable materials risk area**	! FM
6.1E3 **explosive materials**	EM	6.103 **oxidizing materials risk area**	! OM
		6.104 **explosive materials risk area**	! EM

Sat Jul 05 11:42:48 2003

Group 7. Fire precautions

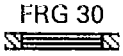
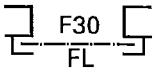
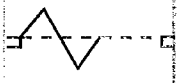
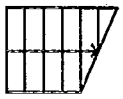
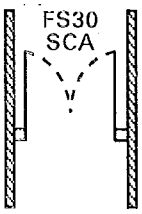
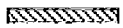
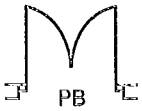
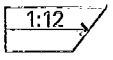
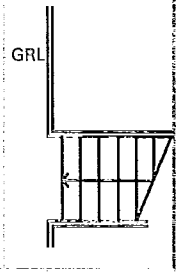
Table 7.1 Building elements

Elements		Elements		Symbols	
7.1E1 **ramp gradient**	1:12	7.1E13 **fire resisting**	F	7.101 **wall opening with window**	
7.1E2 **fire resistance in minutes**	60	7.1E14 **smoke resisting**	S	7.102 **wall opening with roller shutter**	
7.1E3 **fire resisting glazed element**	FRG			7.103 **wall opening with up and over door**	
7.1E4 **security lock**	SL			7.104 **doorset, hinged leaf**	
7.1E5 **key in box**	K			7.105 **doorset, hinged leaf** (alternative)	
7.1E6 **free from fastenings**	FFF			7.106 **doorset, hinged leaf, normally closed**	
7.1E7 **self-closing**	SC			7.107 **doorset, hinged leaf, normally open**	
7.1E8 **self-closing automatic release**	SCA			7.108 **doorset hinged, leaf, opening either way**	
7.1E9 **vision panel**	VP			7.109 **doorset, hinged leaf, opening 180°**	
7.1E10 **guarding handrail**	GRL			7.110 **doorset, two hinged leaves**	
7.1E11 **pushbar door ironmongery**	PB			7.111 **doorset, sliding leaf**	
7.1E12 **fusible link**	FL			7.112 **doorset, revolving leaves**	

Sat Jul 05 11:42:54 2003

Group 7. Fire precautions

Table 7.1 Building elements (continued)

Symbols		Applications		Applications	
7.113 **doorset, sliding/ folding, end hung**		Fire resisting glazed screen 7.118, 7.101 7.1E3, 7.1E2		Wall opening with roller shutter 30 min fire resistance, operated by fusible link 7.102, 7.1E13, 7.1E12	
7.114 **doorset, sliding/ folding, centre hung**		Fire damper in ductwork 7.117			
7.115 **stairway, arrow indicates up direction**		30 min fire resisting doorset, single leaf, single swing. 7.118, 7.104, 7.1E2, 7.1E13			
7.116 **ramp, arrow indicates up direction**		60min fire and smoke resisting doorset, single leaf, single swing. 7.118, 7.104, 7.1E2, 7.1E13, 7.1E14			
7.117 **fire damper**		30 min fire and smoke resisting door set, two leaves, single swing, self closing normally held open on electro magnetic devices 7.118, 7.110, 7.1E2 7.1E8, 7.1E13, 7.1E14			
7.118 **fire resisting construction, 30 min**					
7.119 **fire resisting construction 30 min** (for small scale drawings)		Final exit doorset, two leaves, single swing, with push bar door ironmongery 7.110, 7.1E11			
		Ramp showing direction of rise and gradient 7.116, 7.1E1			
		Guarding rail along side of open stairwell 7.115, 7.1E10			

Sat Jul 05 11:43:00 2003

BS 1635:1990

Group 8. Emergency lighting

Table 8.1 Luminaires

Elements	Symbols
8.1E1 **luminaire, any type**	8.101 **emergency, enclosed**
8.1E2 **luminaire, any type, enclosed**	8.102 **emergency, self-contained**
8.1E3 **luminaire, linear, any type**	8.103 **emergency, linear, any type**
8.1E4 **luminaire, linear, any type, enclosed**	8.104 **emergency, linear, self-contained**
8.1E5 **emergency/ safety**	8.105 **emergency, linear, enclosed**
	8.106 **exit sign, internally illuminated**

Sat Jul 05 11:43:06 2003

Group 9. Fire safety signs

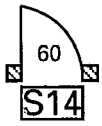
Table 9.1 Descriptions

Elements		Elements (continued)		Elements (continued)	
9.1E1 general prohibition	S1	9.1E13 fire door, keep shut	S13	9.1E25 push bar to open	S25
9.1E2 smoking is prohibited	S2	9.1E14 fire door, keep locked	S14	9.1E26 directional arrow (green)	S26
9.1E3 smoking and naked flames prohibited	S3	9.1E15 automatic fire door, keep clear	S15	9.1E27 collection of firefighting equipment	S27
9.1E4 water as extinguishing agent prohibited	S4	9.1E16 automatic fire door, keep clear, close at night	S16	9.1E28 fire alarm call point	S28
9.1E5 general warning	S5	9.1E17 door to be secured open	S17	9.1E29 fire telephone	S29
9.1E6 flammable materials	S6	9.1E18 door to be unlocked	S18	9.1E30 fire hose reel	S30
9.1E7 oxidizing materials	S7	9.1E19 gangway, keep clear	S19	9.1E31 fire extinguisher	S31
9.1E8 risk of explosion	S8	9.1E20 fire escape, keep clear	S20	9.1E32 foam inlet	S32
9.1E9 no means of escape	S9	9.1E21 general safe condition sign	S21	9.1E33 dry riser	S33
9.1E10 in event of fire, avoid use of lift	S10	9.1E22 fire exit	S22	9.1E34 wet riser	S34
9.1E11 general mandatory sign	S11	9.1E23 slide to open	S23	9.1E35 fireman's switch	S35
9.1E12 fire action sign	S12	9.1E24 break to obtain access	S24	9.1E36 open valve in event of fire	S36

Sat Jul 05 11:43:12 2003

Group 9. Fire safety signs

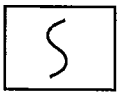
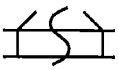
Table 9.1 Descriptions (continued)

Elements		Symbol (example)		Application	
9.1E37 **open valve before running out hose**	S37	9.101 **fire exit**	S22	Fire door to be kept shut 7.118, 7.104, 9.1E14	
9.1E38 **fire plan**	S38			Fire exit door with sign 7.118, 7.110, 8.106, 9.1E22	
9.1E39 **directional arrow (red)**	S39				

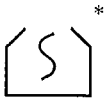
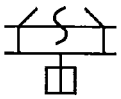
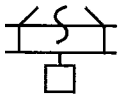
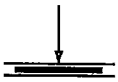
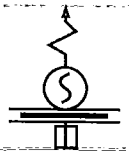
Sat Jul 05 11:43:18 2003

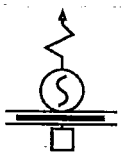
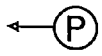
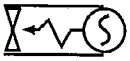
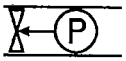
Group 10. Smoke control

Table 10.1 Venting and pressurization

Elements	
10.1E1 **smoke vent, on plan**	
10.1E2 **smoke vent over on plan**	
10.1E3 **roof light vent on plan**	
10.1E4 **roof light vent over on plan**	
10.1E5 **smoke vent in horizontal or vertical section**	
10.1E6 **fan**	
10.1E7 **flow direction, extract**	
10.1E8 **flow direction, supply**	

Elements and symbols from other tables
2.2E4 actuator, any type 2.209 mechanical actuator
4.2E2 smoke
7.101 wall opening with window

Symbols	
10.101 **space requiring smoke ventilation**	 *
10.102 **pressurized space**	 *
10.103 **pressurized space, single stage**	 1
10.104 **pressurized space, double stage**	 2
10.105 **smoke reservoir**	
10.106 **pressure differential point**	
10.107 **smoke vent, manually actuated**	
10.108 **smoke vent, automatically actuated**	
10.109 **smoke extract point**	
10.110 **smoke discharge point**	
10.111 **replacement air intake**	
10.112 **window smoke release, manual**	

Symbols (continued)	
10.113 **window smoke release, automatic**	
10.114 **pressurizing air supply point**	 P
10.115 **pressurizing air intake**	 P
10.116 **smoke curtain, fixed**	
10.117 **smoke curtain, automatically actuated**	
10.118 **smoke extraction fan**	
10.119 **pressurizing air supply fan**	 P

* From ISO 6790.

Sat Jul 05 11:43:24 2003

Appendix

Appendix A. Example of fire protection drawing

Figure 4 gives an example of a fire protection drawing.

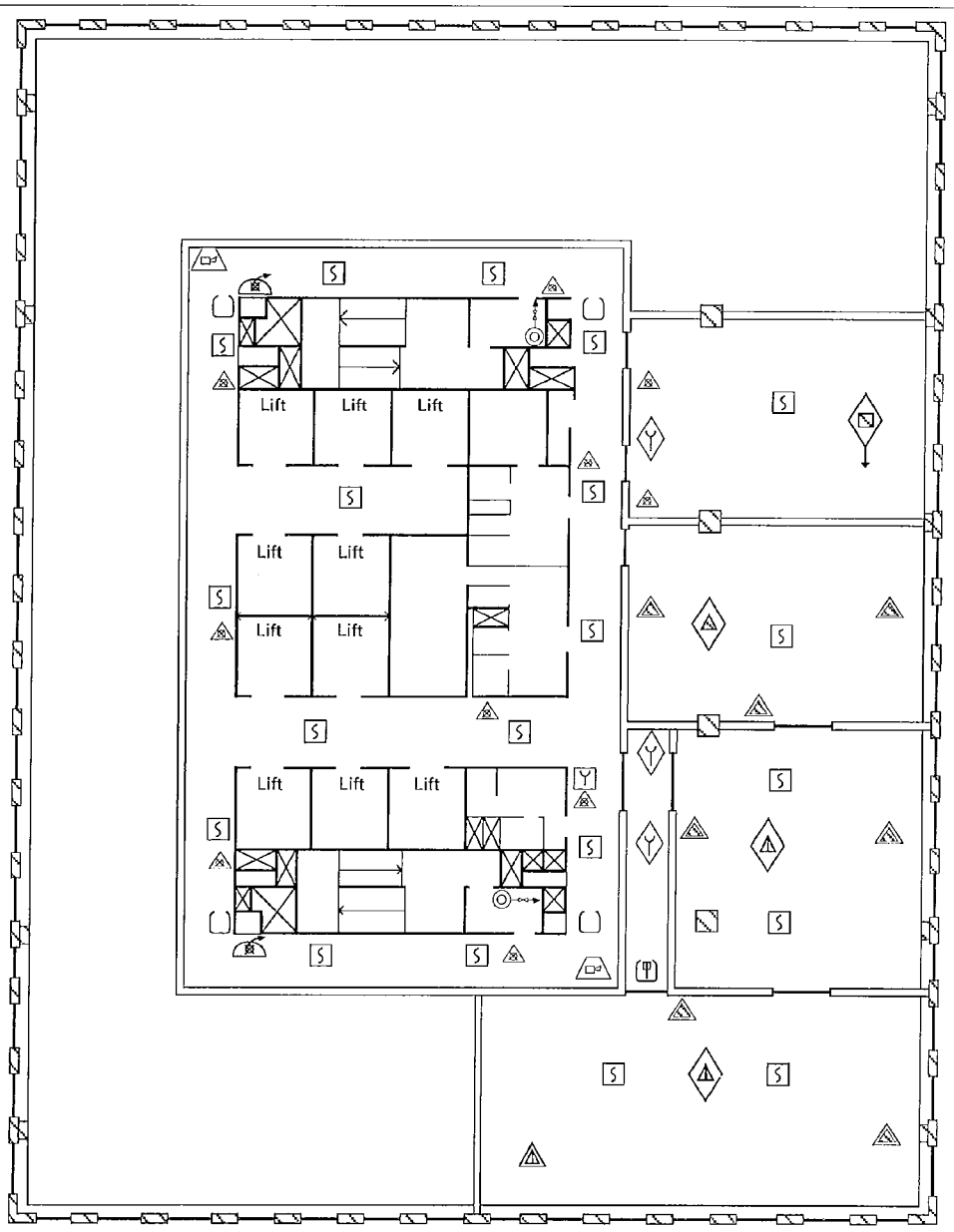


Figure 4. Example of fire protection drawing

Sat Jul 05 11:43:30 2003

Publications referred to

BS 1192	Construction drawing practice Part 1 Recommendations for general principles Part 3 Recommendations for symbols and other graphic conventions
BS 1553	Specification for graphical symbols for general engineering Part 1 Piping systems and plant
BS 3939	Guide for graphical symbols for electrical power, telecommunications and electronics diagrams Part 11 Architectural and topographical installation plans and diagrams
BS 4422	Glossary of terms associated with fire
BS 5499	Fire safety signs, notices and graphic symbols Part 1 Specification for fire safety signs
BS 5606	Code of practice for accuracy in building
ISO 6790	Equipment for fire protection and fire fighting – Graphical symbols for fire protection plans – Specification

Sat Jul 05 11:43:36 2003

BS 1635:1990

This British Standard, having been prepared under the direction of the Fire Standards Policy Committee, was published under the authority of the Board of BSI and comes into effect on: 31 July 1990

© British Standards Institution, 1990

First published, March 1950
Second edition, May 1970
Third edition July 1990

ISBN 0 580 18409 9

The following BSI references relate to the work on this standard:
Committee reference FSM/11 Draft for comment 88/38617 DC

British Standards Institution, Incorporated by Royal Charter, BSI is the independent national body for the preparation of British Standards. It is the UK member of the International Organization for Standardization and UK sponsor of the British National Committee of the International Electrotechnical Commission.

In addition to the preparation and promulgation of standards, BSI offers specialist services including the provision of information through the BSI Library and Standardline Database; Technical Help to Exporters; and other services. Advice can be obtained from the Enquiry Section, BSI, Milton Keynes MK14 6LE, telephone 0908 221166, telex 825777.

Copyright. Users of British Standards are reminded that copyright subsists in all BSI publications. No part of this publication may be reproduced in any form without the prior permission in writing of BSI.

This does not preclude the free use, in the course of implementing the standard, of necessary details such as symbols and size, type or grade designations. Enquiries should be addressed to the Publications Manager, BSI, Linford Wood, Milton Keynes MK14 6LE. The number for telephone enquiries is 0908 220022 and for telex 825777.

Contract requirements. A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Revision of British Standards. British Standards are revised, when necessary, by the issue either of amendments or of revised editions. **It is important that users of British Standards should ascertain that they are in possession of the latest amendments or editions.**

Automatic updating service. BSI provides an economic, individual and automatic standards updating service called **PLUS.** Details are available from BSI Enquiry Section at Milton Keynes, telephone 0908 221166, telex 825777.

Information on all BSI publications is the *BSI Catalogue* supplemented each month by *BSI News* which is available to subscribing members of BSI and gives details of new publications, revisions, amendments and withdrawn standards. Any person who, when making use of a British Standard, encounters an inaccuracy or ambiguity, is requested to notify BSI without delay in order that the matter may be investigated and appropriate action taken

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Fire Standards Policy Committee (FSM/-) to Technical Committee FSM/11, upon which the following bodies were represented :

Association of British Theatre Technicians
Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA Ltd)
Bingo Association of Great Britain
British Entertainments and Dance Hall Association
British Sign Association
Chief and Assistant Chief Fire Officers' Association
Cinema Exhibitors' Association
Department of Health
Department of the Environment (Property Services Agency)
Department of the Environment (Building Research Establishment)
Fire Extinguishing Trades Association
Fire Fighting Vehicle Manufacturers' Association
Guild of Architectural Ironmongers
Home Office
Lighting Industry Federation Ltd.
London Fire and Civil Defence Authority
Loss Prevention Council
Ministry of Defence
National Radiological Protection Board
Royal Institute of British Architects

Amendments issued since publication

Amd. No.	Date of issue	Text affected

Sat Jul 05 11:43:42 2003