

BS 5656-3:2014



BSI Standards Publication

Safety rules for the construction and installation of escalators and moving walks –

Part 3: Examination and test of new moving walks before putting into service – Specification for means of determining compliance with BS EN 115-1:2008+A1:2010

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Summary of pages

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Foreword

Publishing information

This part of BS 5656 is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 July 2014. It was prepared by Technical Committee MHE/4, *Lifts, hoists and escalators*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

Together with BS 5656-1:2013, this part of BS 5656 supersedes BS 5656-1:1997, which is withdrawn.

Relationship with other publications

BS 5656 is published in three parts:

- Part 1: *Examination and test of new escalators before putting into service – Specification for means of determining compliance with BS EN 115-1:2008+A1:2010;*
- Part 2: *Code of practice for the selection, installation and location of new escalators and moving walks;*
- Part 3: *Examination and test of new moving walks before putting into service – Specification for means of determining compliance with BS EN 115-1:2008+A1:2010.*

This part of BS 5656 is intended to be read in conjunction with BS EN 115-1:2008+A1:2010.

Information about this document

This is a new part of the BS 5656 series. It has been developed to take into account the publication of BS 5656-1:2013, which no longer covers moving walks, and of BS EN 115-1:2008+A1:2010.

The Machinery Directive 2006/42/EC [1] requires the manufacturer of a moving walk to take responsibility for its design and manufacture.

The Directive requires that before putting a moving walk into service it shall have undergone certain procedures including final inspection and test.

The inspection and test procedures in this part of BS 5656 may be undertaken by the supplier or their representative, provided that they have an appropriate quality assurance system and/or can demonstrate the necessary competence to undertake the work.

The level of quality assurance can vary in accordance with which conformity assessment route applies, details of which are given in BS EN ISO 9000.

In order to prove the competence of the persons carrying out the testing of the moving walk it is necessary that they operate in accordance with a quality assurance system monitored by a Notified Body, under the requirements of the Supply of Machinery (Safety) Regulations 2008 [2]. It might be necessary to make available certification of the quality assurance system in order to prove compliance.

This part of BS 5656 specifies a means of determining compliance with BS EN 115-1:2008+A1:2010. It does not cover every clause in BS EN 115-1:2008+A1:2010 as many requirements are covered by the manufacturer's quality control procedures.

This part of BS 5656 covers the tests in BS EN 115-1:2008+A1:2010, 7.3, as well as tests that do not fall within the manufacturer's quality control system; for example, the surroundings of the moving walk to ensure conformity to arrangement drawings.

Use of this document

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Attention is particularly drawn to the recommendations for safe working practices provided in BS 7801.

BSI permits the reproduction of the tables in this part of BS 5656. This reproduction is only permitted where it is necessary for the user to record findings on the tables during each application of the standard.

The following documents are required for the examination and tests to be carried out:

- general arrangement drawing;
- electrical schematic drawing;
- copies of test certificates;
- Notified Body approvals, certificates of incorporation, certificates of conformity (if applicable);
- risk assessments for deviations from BS EN 115-1:2008+A1:2010 (if any).

This part of BS 5656 is not intended to be used for existing installations, for which the relevant test procedures are those that were applicable at the time of installation. BS 5656-1:1997 may still be used to carry out any examinations or testing required when changes are made to moving walks installed in conformity to BS EN 115:1995, BS EN 115:1995 incorporating Amendment No. 1 (5.1.5.8 pertaining to hand rails) and BS EN 115:1995 incorporating Amendment No. 2 (5.1.5.6.3 pertaining to deflector devices).

Relevant tests from this part of BS 5656 may be applied to existing moving walks that are upgraded in accordance with either BS EN 115-1:2008+A1:2010 or BS EN 115-2, where for example, components are fitted that were not available at the time of installation and which require examination and test, e.g. the installation of deflector devices.

Although this standard specifically addresses conformity with BS EN 115-1:2008+A1:2010, it also includes provision for the testing of other commonly installed features on new moving walks, e.g. comb lighting.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

It is recognized that certain tests/checks can be carried out more effectively before installation, and that others should only be made on site. Answer boxes in this part of BS 5656 that contain a shaded square imply that the test should be carried out on site.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

Particular attention is drawn to the following legislation:

- Supply of Machinery (Safety) Regulations 2008 [2];
- Equality Act 2010 [3];
- Electricity at Work Regulations 1989 [4];
- Electromagnetic Compatibility Regulations 1992 [5];
- Electric Equipment (Safety) Regulations 1994 [6];
- Health and Safety at Work, etc. Act 1974 [7];
- Provision and Use of Work Equipment Regulations 1998 [8];
- Workplace (Health, Safety and Welfare) Regulations 1992 [9].

NOTE This list is not exhaustive.

1 Scope

This part of BS 5656 specifies one means of determining compliance with the provisions for examination, testing and recording results for new moving walks specified in BS EN 115-1:2008+A1:2010, before putting into service.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 7801:2011, *Escalators and moving walks – Code of practice for safe working on escalators and moving walks*

BS EN 115-1:2008+A1:2010, *Safety of escalators and moving walks – Construction and installation*

3 Terms and definitions

For the purposes of this part of BS 5656 the terms and definitions given in BS EN 115-1:2008+A1 apply.

4 Examination and test of moving walks and components

NOTE 1 It is essential to ensure that the safety requirements of BS EN 115-1:2008+A1 are all met and the associated risks addressed.

When the examination and tests specified in BS EN 115-1:2008+A1 are carried out, the results shall be recorded using the questionnaires given in Table 1 to Table 12 of this part of BS 5656.

All questions on the questionnaires shall be answered.

NOTE 2 Answer boxes in the questionnaires that contain a shaded square indicate that the test/answer should be made on site. Plain answer boxes should be completed by the vendor's design office.

NOTE 3 The word "Specified" in a questionnaire indicates information to be provided by the equipment designer.

For identification purposes, all details shall be based upon looking from the bottom of the inclined moving walk irrespective of the direction of travel and shall be marked by numbers or letters reading from left to right.

Where horizontal moving walks are installed then, for identification purposes, all details shall be based on the direction of travel.

Moving walks shall be tested for both directions of travel regardless of the intended final direction of travel.

Table 1 Result of examination and test for moving walks – Description of installation (1 of 5)

| | | | | | |
|--|--------------------------|----------------------|--|-----|--------------------------|
| Do the requirements of BS EN 115-1:2008+A1, Annex I apply? If Yes then complete Table 12. | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that negotiations have been made in accordance with BS EN 115-1:2008+A1, Introduction. | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Purchaser's name | | <input type="text"/> | | | |
| Equipment location | Vendor's name | | <input type="text"/> | | |
| <input type="text"/> | <input type="text"/> | | | | |
| Vendor's equipment ID | Purchaser's equipment ID | | <input type="text"/> | | |
| <input type="text"/> | <input type="text"/> | | | | |
| Vertical rise (m) | Angle of inclination (°) | | <input type="text"/> | | |
| <input type="text"/> | <input type="text"/> | | | | |
| Nominal pallet/belt width (mm) | Nominal speed (m/s) | | <input type="text"/> | | |
| <input type="text"/> | <input type="text"/> | | | | |
| Installation configuration | | | | | |
| Single unit | <input type="text"/> | Parallel | <input type="text"/> | | |
| Criss-cross | <input type="text"/> | Successive | <input type="text"/> | | |
| Power supply – Specified | | | Power supply – Actual at time of test | | |
| Voltage (V) | <input type="text"/> | Voltage (V) | <input type="text"/> | | |
| Phases | <input type="text"/> | Phases | <input type="text"/> | | |
| Frequency (Hz) | <input type="text"/> | Frequency (Hz) | <input type="text"/> | | |
| Wire 3, 4 or 5 | <input type="text"/> | Wire 3, 4 or 5 | <input type="text"/> | | |
| Fuse rating | <input type="text"/> | Fuse rating | <input type="text"/> | | |
| Fuse type | <input type="text"/> | Fuse type | <input type="text"/> | | |

Table 1 Result of examination and test for moving walks – Description of installation (2 of 5)

| | | | | | |
|---|--|---|--|---|--|
| Is power supply at the time of test satisfactory? | No | <input style="width: 50px; height: 20px;" type="checkbox"/> | Yes | <input style="width: 50px; height: 20px;" type="checkbox"/> | |
| Has a permanent power supply been provided at the time of test? | No | <input style="width: 50px; height: 20px;" type="checkbox"/> | Yes | <input style="width: 50px; height: 20px;" type="checkbox"/> | |
| <i>NOTE If the power supply is not permanent at the time of test then the power-related tests might need to be repeated prior to entering into service.</i> | | | | | |
| Location of machine | | | | | |
| Inside truss | <input style="width: 200px; height: 25px;" type="text"/> | | Outside truss | <input style="width: 200px; height: 25px;" type="text"/> | |
| Location of control panel | | | | | |
| Within truss | <input style="width: 200px; height: 25px;" type="text"/> | | In separate machine room | <input style="width: 200px; height: 25px;" type="text"/> | |
| | | | Other – specify | <input style="width: 200px; height: 25px;" type="text"/> | |
| Type of moving walk | | | | | |
| Pallet | <input style="width: 200px; height: 25px;" type="text"/> | | Belt | <input style="width: 200px; height: 25px;" type="text"/> | |
| Type of drive | | | | | |
| Chain | <input style="width: 200px; height: 25px;" type="text"/> | | Other | <input style="width: 200px; height: 25px;" type="text"/> | |
| Type of drive controller | | | | | |
| Direct on line | <input style="width: 200px; height: 25px;" type="text"/> | | Inverter (VVVF) | <input style="width: 200px; height: 25px;" type="text"/> | |
| Soft start | <input style="width: 200px; height: 25px;" type="text"/> | | Other | <input style="width: 200px; height: 25px;" type="text"/> | |
| Moving walk motor (s) – Specified | | | Moving walk motor(s) – Supplied | | |
| No. of motors | <input style="width: 200px; height: 25px;" type="text"/> | | No. of motors | <input style="width: 200px; height: 25px; background-color: #cccccc;" type="text"/> | |
| Manufacturer | <input style="width: 200px; height: 25px;" type="text"/> | | Manufacturer | <input style="width: 200px; height: 25px; background-color: #cccccc;" type="text"/> | |
| Serial no(s). | <input style="width: 200px; height: 25px;" type="text"/> | | Serial no(s). | <input style="width: 200px; height: 25px; background-color: #cccccc;" type="text"/> | |
| Type | <input style="width: 200px; height: 25px;" type="text"/> | | Type | <input style="width: 200px; height: 25px; background-color: #cccccc;" type="text"/> | |
| Voltage | <input style="width: 200px; height: 25px;" type="text"/> V | | Voltage | <input style="width: 200px; height: 25px; background-color: #cccccc;" type="text"/> V | |

Table 1 Result of examination and test for moving walks – Description of installation (3 of 5)

| | | | |
|--|----------------------|--|----------------------|
| Moving walk motor (s) – Specified (cont.) | | Moving walk motor(s) – Supplied (cont.) | |
| Power | <input type="text"/> | kW | <input type="text"/> |
| Current | <input type="text"/> | A | <input type="text"/> |
| Speed | <input type="text"/> | rpm | <input type="text"/> |
| Insulation class | <input type="text"/> | | <input type="text"/> |
| Duty | <input type="text"/> | | <input type="text"/> |
| Gear(s) – Specified | | Gear(s) – Supplied | |
| No. of gears | <input type="text"/> | No. of gears | <input type="text"/> |
| Manufacturer | <input type="text"/> | Manufacturer | <input type="text"/> |
| Serial no(s). | <input type="text"/> | Serial no(s). | <input type="text"/> |
| Type of gear – Specified | | Type of gear – Supplied | |
| Planetary | <input type="text"/> | Planetary | <input type="text"/> |
| Worm/wheel | <input type="text"/> | Worm/wheel | <input type="text"/> |
| Helical | <input type="text"/> | Helical | <input type="text"/> |
| Other | <input type="text"/> | Other | <input type="text"/> |
| Ratio | <input type="text"/> | Ratio | <input type="text"/> |
| Where applicable, is the oil level correct? | | No | Yes |
| | | <input type="text"/> | <input type="text"/> |
| Operational brake(s) (see BS EN 115-1:2008+A1, 5.4.2.1) | | | |
| Type of brake – Specified | | Type of brake – Supplied | |
| Electromechanical | <input type="text"/> | Electromechanical | <input type="text"/> |
| Other: specify | <input type="text"/> | Other: supplied | <input type="text"/> |
| Number of brakes | Specified | Fitted | |
| | <input type="text"/> | <input type="text"/> | |
| Location | <input type="text"/> | | |

Table 1 Result of examination and test for moving walks – Description of installation (4 of 5)

| | | | |
|--|----------------------|-------------------------------------|--|
| Auxiliary brake(s) (see BS EN 115-1:2008+A1, 5.4.2.2) | | | |
| | | N/A | <input type="checkbox"/> |
| Number of brakes | Specified | <input type="checkbox"/> | Fitted <input checked="" type="checkbox"/> |
| Location | <input type="text"/> | | |
| Pallet/belt chain(s) lubrication | | | |
| Is chain lubrication required? | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| If yes, specify type | <input type="text"/> | | |
| Is the chain lubrication operating correctly? | No | <input checked="" type="checkbox"/> | Yes <input checked="" type="checkbox"/> |
| Auxiliary chain(s) lubrication | | | |
| Is auxiliary chain lubrication required? | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| If yes, specify type | <input type="text"/> | | |
| Is the auxiliary chain lubrication operating correctly? | No | <input checked="" type="checkbox"/> | Yes <input checked="" type="checkbox"/> |
| Main drive chain lubrication | | | |
| Is main drive chain lubrication required? | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| If yes, specify type | <input type="text"/> | | |
| Is the main drive chain lubrication operating correctly? | No | <input checked="" type="checkbox"/> | Yes <input checked="" type="checkbox"/> |
| Other | | | |
| Is a hand winding device fitted? | No | <input checked="" type="checkbox"/> | Yes <input checked="" type="checkbox"/> |

Table 1 Result of examination and test for moving walks – Description of installation (5 of 5)

| | | | | |
|--|----|--------------------------|-----|--------------------------|
| Is standby operation fitted (reduced speed)? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Is on-demand starting fitted? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Is remote starting fitted? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Is all of the above in accordance with the information on the layout drawing/wiring diagram or the other information sheets? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 2 Result of examination and test for moving walks – Information (1 of 2)

| | | | | |
|---|----------------------|--------------------------|-----|--------------------------|
| Confirm that the vendor holds the information required by BS EN 115-1:2008+A1, 6.2. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Location where the information required by BS EN 115-1:2008+A1, 6.2 is kept | <input type="text"/> | | | |
| <i>NOTE 1 This address should preferably be in the UK.</i> | | | | |
| Does the moving walk display the safety signs in accordance with BS EN 115-1:2008+A1, 7.2.1.2.1 and Annex G? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Does the moving walk display additional safety signs as permitted by local conditions in accordance with BS EN 115-1:2008+A1, 7.2.1.2.1? | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| If yes, give description of sign(s) | <input type="text"/> | | | |
| Confirm that safety barriers for both landings (i.e. two barriers) in accordance with BS EN 115-1:2008+A1, 7.2.1.2.3 and with the requirements of BS 7801:2011, Figure D.3 are available on site. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Storage location of safety barriers | <input type="text"/> | | | |
| Confirm that hand winding instructions are provided, where hand winding devices are fitted in accordance with BS EN 115-1:2008+A1, 7.2.1.3. | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that notices are displayed on any access doors giving access to machinery spaces in accordance with BS EN 115-1:2008+A1, 7.2.1.4. | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that an instruction handbook conforming to the requirements of BS EN 115-1:2008+A1, 7.4 has been handed to the purchaser. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Does the moving walk display product marking as required by BS EN 115-1:2008+A1, 7.5 together with CE marking as required by the Supply of Machinery (Safety) Regulations 2008 [2], r7(2)(f)? | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Location where the product marking is displayed on the moving walk | <input type="text"/> | | | |
| Confirm that all stop devices are coloured red, in accordance with BS EN 115-1:2008+A1, 7.2.1.2.2. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that a clearly visible signalling system, e.g. directional traffic signals, is displayed for moving walks that start on demand in accordance with BS EN 115-1:2008+A1, 7.2.2. | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 2 Result of examination and test for moving walks – Information (2 of 2)

Confirm that a visual inspection has been carried out in accordance with BS EN 115-1:2008+A1, 7.3.2a) and Table 7.

No

Yes

NOTE 2 The purpose of the visual inspections is to show that something is present (e.g. a marking, a control panel, an instruction handbook), that the marking required satisfies the requirement and that the content of the documents delivered to the purchaser is in accordance with the requirements.

Table 3 Result of examination and test for moving walks – Physical arrangements (1 of 2)

| | | | | |
|---|-----|--------------------------|-----|--------------------------|
| <p>Confirm that where moving walks are located adjacent to walls, devices to restrict access to the balustrade decking have been provided at the top and bottom ends of these walls, where the lower outer decking width b_{13} exceeds 125 mm, in accordance with BS EN 115-1:2008+A1, 5.5.2.2.</p> | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p><i>NOTE 1 Attention is drawn to the Building Regulations 2010 – Approved document K [10], which require a maximum clearance of 100 mm.</i></p> | | | | |
| <p>Confirm that on adjacent parallel moving walk arrangements, protection devices have been provided where the combined balustrade decking width b_{14} exceeds 125 mm, in accordance with BS EN 115-1:2008+A1, 5.5.2.2.</p> | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that any access restriction device extends to the height h_{10}, i.e. in the range 25 mm to 150 mm, in accordance with BS EN 115-1:2008+A1, 5.5.2.2.</p> | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that where handrail level balustrade decking is provided between moving walks and adjacent walls, anti-slide devices have been fitted in accordance with BS EN 115-1:2008+A1, 5.5.2.2.</p> | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that there is a clear headroom of not less than 2.3 m above the pallet/belts of the moving walk in accordance with BS EN 115-1:2008+A1, A.2.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the handrail clearance is greater than 160 mm between adjacent moving walks, in parallel or criss-cross configuration, measured horizontally between the outer edges of the handrails in accordance with BS EN 115-1:2008+A1, A.2.3.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that where there are building obstacles within 400 mm of the outer edge of the handrails which could cause injury to passengers (e.g. trapping or cutting hazards), appropriate preventive measures have been taken in accordance with BS EN 115-1:2008+A1, A.2.4.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that for moving walks arranged in a criss-cross configuration, a vertical deflector (head guard) has been fitted at the intersections between adjacent trusses in accordance with BS EN 115-1:2008+A1, A.2.4.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that where the moving walk passes the floor intersection or other potential trapping hazard, a vertical deflector (head guard) has been fitted in accordance with BS EN 115-1:2008+A1, A.2.4.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the unrestricted areas (passenger circulation areas) at each landing are in accordance with BS EN 115-1:2008+A1, A.2.5.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 3 Result of examination and test for moving walks – Physical arrangements (2 of 2)

| | | | | |
|--|----|--------------------------|-----|--------------------------|
| <p>Confirm that if the exit of the moving walk can be blocked by structural measures (e.g. doors or fire shutters), an additional passenger emergency stop unit has been fitted at 2 m to 3 m before the comb intersection line, in accordance with BS EN 115-1:2008+A1, A.2.5.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that any building balustrades greater than 100 mm higher than the moving walk balustrades have a clearance of between 80 mm and 120 mm to the outer edge of the handrail, in accordance with BS EN 115-1:2008+A1, A.2.7.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the area surrounding the moving walk is adequately illuminated, in accordance with BS EN 115-1:2008+A1, A.2.8.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p><i>NOTE 2 Attention is drawn to Table 2.5 in the SLL code for lighting [11] in respect of illumination levels.</i></p> | | | | |
| <p>Confirm that the illumination level at the comb intersection line measured at floor level is greater than 50 lx, in accordance with BS EN 115-1:2008+A1, A.2.9.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the risk assessments required by BS 5656-2 relative to the environment the moving walk is installed in have been undertaken.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 4 Result of examination and test for moving walks – Lighting, insulation and earthing

WARNING. Electronic circuits and components might need to be disconnected when carrying out insulation and earth continuity checks and tests.

| | | |
|--|---------------------------------|------------------------------|
| Lighting | | |
| Confirm that the handrail lighting is fitted correctly. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Insulation resistance to earth of handrail lighting installation | <input type="text" value="MΩ"/> | |
| Confirm that the skirting lighting is fitted correctly. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Insulation resistance to earth of skirting lighting installation | <input type="text" value="MΩ"/> | |
| Confirm that the comb lighting is fitted correctly. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Insulation resistance to earth of comb lighting installation | <input type="text" value="MΩ"/> | |
| Confirm that the under pallet/belt lighting is fitted correctly. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Insulation resistance to earth of pallet/belt lighting installation | <input type="text" value="MΩ"/> | |
| Insulation resistance to earth | | |
| Confirm that factory test documents are available to show that insulation resistances to earth are in accordance with BS EN 115-1:2008+A1, 5.11.1.4. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Earthing continuity | | |
| Confirm that the maximum continuity resistance to earth is less than 0.5 Ω. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the controller is bonded to earth. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that handrail static prevention measures have been applied (earthed). | No <input type="checkbox"/> | Yes <input type="checkbox"/> |

Table 5 Result of examination and test for moving walks – Clearances

| | | | | |
|--|----|--------------------------|-----|--------------------------|
| <p>Guiding of pallet/belts</p> <p>Confirm that the lateral displacement of the pallet/belts out of their guiding system does not exceed 4 mm at either side and 7 mm for the sum of clearances measured at both sides, and that the vertical displacement does not exceed 4 mm, in accordance with BS EN 115-1:2008+A1, 5.3.4.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Clearances between pallet</p> <p>Confirm that the clearance between two consecutive pallets in any usable position measured at the tread surface does not exceed 6 mm, in accordance with BS EN 115-1:2008+A1, 5.3.5.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Pallet/belt to skirt clearance</p> <p>Where the skirting of moving walks is placed beside the pallet/belts, confirm that the horizontal clearance does not exceed 4 mm at either side, and 7 mm for the sum of clearances measured at both sides at two directly opposite points, in accordance with BS EN 115-1:2008+A1, 5.5.5.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Mesh of combs into grooves</p> <p>Confirm that the mesh depth h_8 of the combs into the grooves of the tread is at least 4 mm, in accordance with BS EN 115-1:2008+A1, 5.7.3.3.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the clearance h_6 does not exceed 4 mm, in accordance with BS EN 115-1:2008+A1, 5.7.3.3.2.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Handrail profile and guide/cover</p> <p>Confirm that the distance between the handrail profile and guide or cover profiles does not exceed 8 mm, in accordance with BS EN 115-1:2008+A1, 5.6.2.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Handrail clearances</p> <p>Confirm that the distance between the outer edge of the handrail and walls or other obstacles is not less than 80 mm horizontally and not less than 25 mm vertically below the lower edge of the handrail, in accordance with BS EN 115-1:2008+A1, A.2.2.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that the handrail clearance is greater than 80 mm measured horizontally from the outer edge of the handrail, and for a height of 2.1 m measured from the moving walk pallet/belt nose line/landings, in accordance with BS EN 115-1:2008+A1, A.2.2.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Confirm that for moving walks arranged adjacent to one another, the distance between the handrails is not less than 160 mm, in accordance with BS EN 115-1:2008+A1, A.2.3.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 6 Result of examination and test for moving walks – Electric safety devices (1 of 3)

| | | | |
|---|-----|--------------------------|------------------------------|
| Stop switches | | | |
| Confirm that there are maintenance and repair stop switches in both the driving and return stations, and that when operated, the moving walk stops and remains stopped even when the stop switch is reset, in accordance with BS EN 115-1:2008+A1, 5.8.4. | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Stop switches | | | |
| Total number of stop switches fitted | | Number | <input type="checkbox"/> |
| Number of stop switches for emergency situations, manually operated in accordance with BS EN 115-1:2008+A1, 5.12.2.2.3 | | Number | <input type="checkbox"/> |
| Confirm that each stop switch is in accordance with BS EN 115-1:2008+A1, 5.12.2.2.3. | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the moving walk stops when each stop switch is operated and remains stopped even when the stop switch is reset. | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that if a stop switch is an integral part of the moving walk, it is in an easily accessible position. | N/A | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Overload (current increase) | | | |
| Confirm that if the motor overload device is actuated, the moving walk stops and starting is prevented until it is manually reset, in accordance with BS EN 115-1:2008+A1, 5.11.3.2. | N/A | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Overload (temperature increase) | | | |
| Confirm that if the motor overload device is actuated, the moving walk stops in accordance with BS EN 115-1:2008+A1, 5.11.3.3. | N/A | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| <i>NOTE The overload device might be a thermistor.</i> | | | |
| Excessive speed device | | | |
| Confirm that if the excessive speed device is actuated, the moving walk stops and starting is prevented until it is manually reset, in accordance with BS EN 115-1:2008+A1, 5.4.2.3.1. | N/A | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Unintentional reversal of the direction of travel device | | | |
| Confirm that if the unintentional reversal of the direction of travel device is actuated, the moving walk stops and starting is prevented until it is manually reset, in accordance with BS EN 115-1:2008+A1, Table 6c). | No | <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Auxiliary brake | | | |
| Confirm that if the auxiliary brake electric safety device is operated, the moving walk stops in accordance with BS EN 115-1:2008+A1, 5.4.2.2.4. | N/A | <input type="checkbox"/> | Yes <input type="checkbox"/> |

Table 6 Result of examination and test for moving walks – Electric safety devices (2 of 3)

| | | | |
|---|-----------------------|------------------------------|------------------------------|
| Excessive carriage movement | | | |
| Confirm that when the carriage electric safety device is activated, the moving walk stops and starting is prevented until it is manually reset. [See BS EN 115-1: 2008+A1, Table 6e) and Table 6f)]. | | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Breakage/undue elongation of drive chain | | | |
| Confirm that when the breakage/undue elongation of the drive chain electric safety device is activated, the moving walk stops and starting is prevented until it is manually reset, in accordance with BS EN 115-1:2008+A1, Table 6e). | | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Comb safety device | | | |
| Type of comb plate safety device | Horizontal activation | <input type="checkbox"/> | |
| | Vertical activation | <input type="checkbox"/> | |
| | Combined activation | <input type="checkbox"/> | |
| | Other | <input type="checkbox"/> | |
| Confirm that when the comb safety device is actuated (e.g. as the result of foreign bodies being trapped), the moving walk stops in accordance with BS EN 115-1:2008+A1, 5.7.3.2.6. | | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Successive moving walks | | | |
| Confirm that where there are successive moving walks (e.g. where an intermediate exit does not exist), when one moving walk is stopped the successive moving walk also stops, in accordance with BS EN 115-1:2008+A1, A.2.6. | | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Handrail entry device | | | |
| Confirm that when the handrail entry device is actuated (as the result of foreign bodies being trapped), the moving walk stops in accordance with BS EN 115-1:2008+A1, Table 6i). | | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Pallet/belt sagging device | | | |
| Confirm that when the pallet/belt sagging device is actuated, the moving walk stops and starting is prevented until the failure lock is manually reset, in accordance with BS EN 115-1:2008+A1, 5.7.2.5. | | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Missing pallet device | | | |
| Confirm that when either of the missing pallet devices located at both drive and return stations are actuated, the moving walk stops and starting is prevented until the failure lock is manually reset, in accordance with BS EN 115-1:2008+A1, 5.3.6. | | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |

Table 6 Result of examination and test for moving walks – Electric safety devices (3 of 3)

| | | | | |
|---|-----|--------------------------|-----|--------------------------|
| <p>Non-lifting of the braking system</p> <p>Confirm that when the non-lifting of the braking system device is actuated, the moving walk stops and starting is prevented until the failure lock is manually reset, in accordance with BS EN 115-1:2008+A1, 5.4.2.1.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Hand rail speed deviation device</p> <p>Confirm that when the hand rail speed deviation device is actuated, the moving walk stops in accordance with BS EN 115-1:2008+A1, 5.6.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Opened inspection cover</p> <p>Confirm that when an inspection cover/floor plate is removed or opened, the moving walk stops in accordance with BS EN 115-1:2008+A1, Table 6n).</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Excessive stopping distance</p> <p>Confirm that when the maximum permitted stopping distance device is actuated, the moving walk stops and starting is prevented until the failure lock is manually reset, in accordance with BS EN 115-1:2008+A1, 5.4.2.1.1.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Fault to earth</p> <p>Confirm that when the fault to earth device is actuated, the moving walk stops and starting is prevented until it is manually reset, in accordance with BS EN 115-1:2008+A1, 5.12.1.1.4.</p> | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Removable hand winding device</p> <p>Confirm that when the removable hand winding device is actuated, the moving walk stops in accordance with BS EN 115-1:2008+A1, 5.4.1.4.</p> | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 7 Result of examination and test for moving walks – Control devices

| | | |
|--|------------------------------|------------------------------|
| Inspection controls | | |
| Confirm that all inspection controls have been provided in accordance with BS EN 115-1:2008+A1, 5.12.2.5. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that all the inspection controls operate in accordance with BS EN 115-1:2008+A1, 5.12.2.5.4. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Starting controls | | |
| Confirm that the starting and directional controls operate in accordance with BS EN 115-1:2008+A1, 5.12.2.1.1. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that moving walks that start or accelerate automatically conform to BS EN 115-1:2008+A1, 5.12.2.1.2. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm for moving walks that start or accelerate automatically that the user signalling system (traffic lights) conforms to BS EN 115-1:2008+A1, 7.2.2. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that moving walks that start automatically, where a user enters in the opposite direction of predetermined travel, conform to BS EN 115-1:2008+A1, 5.12.2.1.3. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the running time conforms to BS EN 115-1:2008+A1, 5.12.2.1.3. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Measure the running time. | Time <input type="text"/> | s |

Table 8 Result of examination and test for moving walks – Pallet/belts, handrails, balustrades and surrounds (1 of 2)

| | | | | | |
|---|--|---------|--------------------------|-----|--------------------------|
| <p>Pallet/belt running Confirm that the pallet/belts are able to run free of any interference from each other, skirting panels, comb sections, deflector devices and any other parts of the moving walk structure in each direction of travel.</p> | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Pallet/belt speed Confirm that the speed of the pallet/belts is in accordance with BS EN 115-1:2008+A1, 5.4.1.2.</p> | | Forward | | | m/s |
| | | Reverse | | | m/s |
| <p>Handrail running Confirm that the handrails are able to run free of any interference from any other parts of the moving walk structure in each direction of travel.</p> | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Handrail speed Confirm that the speed of the handrails is in accordance with BS EN 115-1:2008+A1, 5.6.1.</p> | | Forward | | | m/s |
| | | Left | | | m/s |
| | | Right | | | m/s |
| | | Reverse | | | m/s |
| | | Left | | | m/s |
| | | Right | | | m/s |
| <p>Landings Confirm that the landings of the moving walk conform to BS EN 115-1:2008+A1, A.2.5.</p> | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Landing surfaces Confirm that the landing surfaces conform to BS EN 115-1:2008+A1, 5.7.1.</p> | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Skirt deflector devices Confirm that the skirt deflector devices conform to BS EN 115-1:2008+A1, 5.5.3.4c).</p> | | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Anti-climbing device Confirm that anti-climbing devices conform to BS EN 115-1:2008+A1, 5.5.2.2.</p> | | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Access restriction devices Confirm that the access restriction devices conform to BS EN 115-1:2008+A1, 5.5.2.2.</p> | | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Anti-slide devices Confirm that the anti-slide devices conform to BS EN 115-1:2008+A1, 5.5.2.2.</p> | | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| <p>Vertical deflector (head guard) Confirm that any vertical deflectors conform to BS EN 115-1:2008+A1, A.2.4.</p> | | N/A | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Table 8 Result of examination and test for moving walks – Pallet/belts, handrails, balustrades and surrounds (2 of 2)

Shopping trolleys/baggage carts

Confirm that where shopping trolleys/baggage carts are available in the area around the moving walk that are not suitable for use on the moving walk, suitable barriers have been provided to prevent access.

N/A

Yes

Table 9 Result of examination and test for moving walks – Stopping distances

NOTE 1 Load tests are not required by BS EN 115-1:2008+A1.

NOTE 2 It is good practice not to conduct stopping distance tests until the moving walk has been running continuously for at least 1 h.

Operational brake

Measure no-load stopping distances

| | | |
|---------|----------------------|---|
| Forward | <input type="text"/> | m |
| Reverse | <input type="text"/> | m |

Measure deceleration value

| | | |
|---------|----------------------|------------------|
| Forward | <input type="text"/> | m/s ² |
| Reverse | <input type="text"/> | m/s ² |

Confirm that the deceleration value (<1.0 m/s²) is in accordance with BS EN 115-1:2008+A1, 5.4.2.1.3.2.

Yes

Confirm that the no-load stopping distance conforms to BS EN 115-1:2008+A1, Table 3.

No Yes

Auxiliary brake

Confirm that with the operational brake not in operation, any auxiliary brake stops the moving walk in accordance with BS EN 115-1:2008+A1, 5.4.2.2.2.

N/A Yes

Table 10 Result of examination and test for moving walks – Motor(s) measurements

With no load on the moving walk measure the following. If more than one drive motor is installed then provide additional copies of Table 10 to document the measurements.

Electrical current measurements

| | | | |
|---|-----|----------------------|---|
| Motor number | | | |
| Starting current moving walk running forward | | | A |
| Starting current moving walk running in reverse | | | A |
| Running current moving walk forward – nominal speed | | | A |
| Running current moving walk reverse – nominal speed | | | A |
| Running current moving walk forward – reduced speed | N/A | <input type="text"/> | A |
| Running current moving walk reverse – reduced speed | N/A | <input type="text"/> | A |

Table 11 Result of examination and test for moving walks – Confirmation of conformity to BS EN 115-1:2008+A1:2010

a) Are all the items associated with the installation, for which the moving walk installer is not responsible, in a suitable state for the installation to be put into service? No Yes

NOTE 1 Some of the items requiring attention might not be part of the contract for the moving walk, but part of the installation and the responsibility of others.

If NO, provide details.

b) Does the moving walk conform to BS EN 115 1:2008+A1:2010? No Yes

If NO, state the reasons.

NOTE 2 These reasons can include Notified Body approval having been obtained (EC type examination, design examination certificate), or alternative measures implemented following a risk assessment (or reference to BS EN 115-2 when replacing existing installations), to ensure the level of safety meets or exceeds BS EN 115-1:2008+A1:2010. Additional/alternative tests might be required for any deviations from the standard, the results of which should be attached to the present test results.

c) Have all the questions been answered? No Yes

If NO, state the reasons:

| | | | | | |
|-----------|--|-----------------------|--|--------------------|--|
| Signature | <input style="width: 90%; height: 20px;" type="text"/> | Name (in capitals) | <input style="width: 90%; height: 20px;" type="text"/> | Position | <input style="width: 90%; height: 20px;" type="text"/> |
| Company | <input style="width: 90%; height: 20px;" type="text"/> | Date | <input style="width: 90%; height: 20px;" type="text"/> | Place of signature | <input style="width: 90%; height: 20px;" type="text"/> |

Table 12 Result of examination and test for moving walks – Additional requirements for shopping trolleys and baggage carts as specified in BS EN 115-1:2008+A1:2010, Annex I.1 (1 of 2)

| | | |
|--|------------------------------|------------------------------|
| <i>NOTE 1 If shopping trolleys or baggage carts are available to be used on the moving walk, then special measures should be defined between the manufacturer of the moving walk, the manufacturer of the means of transportation and the purchaser, based on risk assessment in accordance with BS EN ISO 14798, to ensure safe transportation.</i> | | |
| Confirm that trolley barriers are fitted at the entry landing if shopping trolleys/baggage carts are available in the vicinity of the moving walks. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| <i>NOTE 2 Barriers should be located outside the unrestricted areas (passenger circulation areas).</i> | | |
| Confirm that the shopping trolleys/baggage carts which are chosen for use on a moving walk have been specified between the shopping trolley/baggage cart manufacturer and the moving walk manufacturer. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the width of the shopping trolley/baggage cart is at least 400 mm less than the nominal pallet/belt width. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that if the moving walk inclination exceeds 6°, the rated speed is limited to 0.5 m/s. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm, if non-specified shopping trolleys/baggage carts are available in the moving walk area, that access is prevented to the moving walk entrance. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that passengers are able to leave the moving walk, even if shopping trolleys or baggage carts are on the moving walk. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the moving walk has: | | |
| a) an inclination less than 12°; | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| b) a rated speed less than 0.5 m/s for inclinations greater than 6°. | N/A <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the combs are designed with a maximum angle (β) of 19° combined with a diameter of the shopping trolley/baggage cart roller of at least 120 mm diameter. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that any additional stops for emergency situations have been provided at handrail level (taking into account BS EN 115-1:2008+A1, A.2.2) with a distance between 2.0 m and 3.0 m before the pallet/belt reaches the comb intersection line. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |
| Confirm that the stop for emergency situations near to the transition curve can be reached from inside the moving walk and the stops for emergency situations at exit(s) can be reached from outside of the moving walk. | No <input type="checkbox"/> | Yes <input type="checkbox"/> |

Table 12 Result of examination and test for moving walks – Additional requirements for shopping trolleys and baggage carts as specified in BS EN 115-1:2008+A1:2010, Annex I.1 (2 of 2)

| | | | | |
|---|----|--------------------------|-----|--------------------------|
| Confirm that the maximum weight for a shopping trolley/baggage cart is not more than 160 kg when loaded. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the shopping trolley/baggage cart automatically locks itself on the inclined part of moving walks. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the shopping trolley/baggage cart is fitted with a braking or blocking system. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the shopping trolley/baggage cart has deflectors (bumpers) to reduce the risk of clamping. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that for the safe exit from the moving walk, the rear rollers of the shopping trolley/baggage cart push the front rollers over the comb. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the front rollers and/or blocking system easily release from the pallet/belts. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the deflectors and guiding devices have been added to the surrounding area to ensure correct alignment of the shopping trolley/baggage cart when entering the moving walk. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |
| Confirm that the safety signs about the safe and correct use of the shopping trolley/baggage cart are displayed. | No | <input type="checkbox"/> | Yes | <input type="checkbox"/> |

Bibliography

Standards publications

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 5656-1:1997, *Safety rules for the construction and installation of escalators and passenger conveyors – Part 1: Specification and proformas for test and examination of new installations*

BS 5656-1:2013, *Safety rules for the construction and installation of escalators and moving walks – Part 1: Examination and test of new escalators before putting into service – Specification for means of determining compliance with BS EN 115-1:2008+A1:2010*

BS 5656-2, *Escalator and moving walks – Safety rules for the construction and installation of escalators and moving walks – Part 2: Code of practice for the selection, installation and location of new escalators and moving walks*

BS EN 115:1995, *Safety rules for the construction and installation of escalators and passenger conveyors*

BS EN 115:1995 incorporating Amendment No. 1:1998, *Safety rules for the construction and installation of escalators and passenger conveyors*

BS EN 115:1995 incorporating Amendment No. 2:2005, *Safety rules for the construction and installation of escalators and passenger conveyors*

BS EN 115-2, *Safety of escalators and moving walks – Part 2: Rules for the improvement of safety of existing escalators and moving walks*

BS EN ISO 9000, *Quality management systems – Fundamentals and vocabulary*

BS EN ISO 14798, *Lifts (elevators), escalators and moving walks – Risk assessment and reduction methodology*

Other publications

- [1] EUROPEAN COMMUNITIES. 2006/42/EC. Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast). (Machinery Directive.) Luxembourg: Office for Official Publications of the European Communities, 2006.
- [2] GREAT BRITAIN. Supply of Machinery (Safety) Regulations 2008. London: The Stationery Office.
- [3] GREAT BRITAIN. Equality Act 2010. London: The Stationery Office.
- [4] GREAT BRITAIN. Electricity at Work Regulations 1989. London: HMSO.
- [5] GREAT BRITAIN. Electromagnetic Compatibility Regulations 1992. London: HMSO.
- [6] GREAT BRITAIN. Electric Equipment (Safety) Regulations 1994. London: HMSO.
- [7] GREAT BRITAIN. Health and Safety at Work, etc. Act 1974. London: HMSO.
- [8] GREAT BRITAIN. Provision and Use of Work Equipment Regulations 1998. London: HMSO.
- [9] GREAT BRITAIN. Workplace (Health, Safety and Welfare) Regulations 1992. London: HMSO.

- [10] DEPARTMENT FOR COMMUNITIES AND LOCAL GOVERNMENT. *The Building Regulations 2010 – Approved document K – Protection from falling, collision and impact*. Newcastle upon Tyne: National Building Specification, 2013.
- [11] SOCIETY OF LIGHT AND LIGHTING. *SLL Code for lighting (Society of Light and Lighting)*. London: CIBSE, 2012.

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