



SLOVENSKI STANDARD
SIST EN 1155:2000/A1:2003

01-oktober-2003

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Building hardware - Electrically powered hold-open devices for swing doors -
Requirements and test methods

Schlösser und Baubeschläge - Elektrisch betriebene Feststellvorrichtungen für
Drehflügeltüren - Anforderungen und Prüfverfahren

Quicaillerie pour le bâtiment - Dispositifs de retenue électromagnétique pour portes
battantes - Prescriptions et méthodes d'essai

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Ta slovenski standard je istoveten z: EN 1155:1997/A1:2002

ICS:

91.190 Stavbna oprema Building accessories

SIST EN 1155:2000/A1:2003 **en,fr,de**

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SIST EN 1155:2000/A1:2003

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ICS 91.190

English version

Building hardware - Electrically powered hold-open devices for swing doors - Requirements and test methods

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This amendment A1 modifies the European Standard EN 1155:1997; it was approved by CEN on 7 November 2002.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Foreword

This document (EN 1155:1997/A1:2002) has been prepared by Technical Committee CEN/TC 33 "Doors, windows, shutters, building hardware and curtain walling", the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2003, and conflicting national standards shall be withdrawn at the latest by September 2004.

This document has been prepared under a mandate given to CEN by the European Commission and The European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative annex ZA, which is an integral part of this document.

NOTE This amendment refers only to requirements under the Construction Products Directive (89/106/EEC), and CE marking is considered only in regard to this Directive. Where full CE marking may require compliance with other directives it is understood that this is done by following the relevant risk assessment(s) of these other directives, performed in addition to the requirements of this standard.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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Foreword

⇒ Insert the following new second paragraph : «This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of the EU Directive (89/106/EEC)

⇒ Insert the following new third paragraph :

«For relationship with EU Directive 89/106/EEC, see informative annex ZA which is an integral part of this document».

⇒ Insert new fourth paragraph : “ Wherever reference is made to classes, they are considered to be technical classes and not classes according to Article 3(2) of the Construction Products Directive (89/106/EEC).”

Delete third and fourth paragraphs

Contents

⇒ Insert 9 – Evaluation of conformity ;

⇒ Insert Annex ZA (informative) - Clauses of this European Standard addressing the provisions of the EU Construction Products Directive (89/106/EEC)

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1 Scope

⇒ Paragraph 1 : *Insert* : “,intended to be used on fire/smoke compartmentation doors” *after* «in a door closer».

⇒ Insert new paragraph : «Door closing devices are covered by EN 1154».

2 Normative references

Replace «prEN 1670» *with* «EN 1670».

Replace «prEN 1634-1 *with* EN 1634-1».

⇒ *Insert* «EN 1634-3 Fire resistance tests for door and shutter assemblies - Part 3: Smoke control doors and shutters ».

3 Terms and definitions

Replace first sentence with : "For the purposes of this European Standard the terms and definitions listed in EN 1154 apply together with the following :"

3.2 Delete.

3.3 Delete.

- 3.4 Delete.
 - 3.5 Delete.
 - 3.6 Delete.
 - 3.7 Delete.
 - 3.8 Renumber as 3.2.
 - 3.9 Renumber as 3.3.
 - 3.10 Renumber as 3.4.
 - 3.11 Renumber as 3.5.
 - 3.12 Delete.
-

4 Classification

- 4.1 Replace heading with : «Coding system».
- 4.3 Replace heading with : «Durability (second digit)».
- 4.4 Replace heading with : «Hold-open power size (third digit)».

Replace first paragraph with : «Five hold-open power sizes are identified according to Table 1 of this European Standard».

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Delete the example.

- 4.5 Replace in the heading and in the first paragraph «Fire resistance» with : «Suitability for use on fire/smoke compartmentation doors»
- 4.7 First sentence, replace «prEN 1670» with «EN 1670»

⇒ Insert the following new subclause between 4.7 and Table 1

"4.8 Example of classification

The following marking denotes an electrically powered hold-open device complying with grade 3 category of use, with durability grade 5 without operating arms, suitable for use with door closers having a range of power from power size 4 to power size 6, suitable for use on fire/smoke door assemblies, with safety grade 1 and with a mild resistance to corrosion.»

3	5	6	1	1	1
		4			

5 Requirements

- 5.1 Replace heading with : «Product information and design»

5.1.2

⇒ Insert the following additional paragraph : «Compliance is verified by visual examination».

5.1.3

⇒ Insert the following additional paragraph : “Compliance is verified by visual examination”.

5.1.4

⇒ Insert the following additional paragraph : “Compliance is verified by visual examination”.

5.1.5

⇒ Insert the following additional paragraph : “Compliance is verified by visual examination”.

5.1.6

⇒ Insert the following additional paragraph : “Compliance is verified by visual examination”.

Replace heading with : «Performance»

Insert the word “relevant” before “performance requirements...”

5.2.13 Replace heading with : «Fire/smoke door suitability».

Replace the rest of first paragraph after the first sentence : «The test shall have been on a full sized assembly in accordance with EN 1634-1 or when relevant, in accordance with EN 1634-3. Until European Standards for fire testing are available, existing national regulations for fire testing valid in the place of use may be used».

5.2.14.1 Replace with : «The requirements of 5.6 of EN 1670:1998 shall be met, according to its classification (see 4.7)».

⇒ Insert the following new subclause : [SIST EN 1155:2000/A1:2003](https://standards.iteh.ai/catalog/standards/sist/112a300d-37a6-452a-b79f-59d5357514e1/EN-1670-1998)
<https://standards.iteh.ai/catalog/standards/sist/112a300d-37a6-452a-b79f-59d5357514e1/EN-1670-1998>

5.2.14.3 The acceptance conditions defined in 5.7 of EN 1670:1998 shall be met for all surfaces of the electrically powered hold-open device which are visible when the electrically powered hold-open device is fitted in service”.

6 Test apparatus

Amend sentence to read : «A force gauge or comparable device, with an accuracy of 1.5 % of reading or better...»

First paragraph, delete «annex A»

Second paragraph, delete «annex A»

7 Test methods

7.1.1 Amend tolerances given to read :

— mass expressed in kilograms	(kg)	± 2 %
— length expressed in millimetres	(mm)	± 2 %
— angular position expressed in degrees	(°)	± 2°
— force expressed in newtons	(N)	± 2 %

- time expressed in seconds (s) ± 5 %
- temperature expressed in degrees Celsius (°C) ± 2 °C
- voltage expressed in volts (V) ± 0,5 %
- moment expressed in Newton-metres (Nm) ± 2 %

7.1.2 First sentence, replace «(see flow chart of annex B)» with «(see annex B)»

⇒ Insert the following new third paragraph :

«For the minimum cases, the door closer shall be adjusted such that its closing moment is as near as possible to the value specified in Table 1, column 4 of EN 1154:1996. For the maximum case, the door closer shall be adjusted so that its closing moment is as near as possible to the value stated in Table 1, column 5 of EN 1154:1996».

7.2.5 Replace the second sentence in the second paragraph, with : «Reduce the supply voltage by approximately one volt per second (1 V/s) and verify that the door is released from the held position before the voltage falls below 2,4 V.»

7.2.6 Replace first sentence in final paragraph with : «Temperatures of terminals and exposed surfaces shall be measured by means of thermocouples or probes having an accuracy of 1,5 % of reading or better».

7.2.7 Replace third sentence in the first paragraph with : «Hold the test door in the closed position with the cable and drop weights attached, according to Table 1. Release the door allowing the drop weights to fall».

Transfer sentences 4 and 5 to after the note.

7.2.8 Replace heading with : «Durability tests» EN 1155:2000/A1:2003

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7.2.8.3 Replace heading with : «Durability (all electrically powered)» EN 1155:2000/A1:2003

First paragraph, replace second sentence with : «Adjust the test apparatus to open the test door to 70° and allow the incorporated door closer to return the test door to the closed position.»

Amend a) to read : «for electrically powered hold-open door closers and devices that contain operating arms ; continue for a further 450 000 test cycles» ;

7.3.4 Replace : «prEN 1670» with «EN 1670».

8 Marking

Replace the wording of the note with : «The information under f) can be in coded form».

Add new third paragraph : «Accessories shall be marked with the information a) to c) and e) to f) above. In preferential order the information shall be placed :

- 1) on the product itself ; or
- 2) on a label attached to it ; or
- 3) on the installation instructions ; or
- 4) on its packaging».

⇒ Insert note after last paragraph :

«For CE marking and labelling, see clause ZA.3 of annex ZA.»

⇒ Insert the following new clause :

9 Evaluation of conformity

9.1 Initial type test

Samples, selected in accordance with 7.1.2, representing the series, shall be subjected to the full test sequence of clause 7.

If necessary, (for example, after component changes or redesigns likely to affect the product performance) this initial type test shall be repeated.

9.2 Factory production control

9.2.1 Documentation

9.2.1.1 The manufacturer of electrically powered hold-open devices to this European Standard shall document, operate and maintain an adequate factory production control system to enable the achievement of the required product characteristics and the effective operation of the production control system to be checked.

9.2.1.2 The manufacturer shall draw up and keep up-to-date documents defining the factory production control which he applies. The manufacturer's documentation and procedures shall be appropriate to the product and manufacturing process. The factory production control system shall achieve an appropriate level of confidence in the conformity of the product. This involves:

- a) the preparation of documented procedures and instructions relating to factory production control operations ;
- b) the effective implementation of these procedures and instructions ;
- c) the recording of these procedures and their results ;
- d) the use of these results to correct any deviations, repair the effects of such deviations, treat any resulting instances of non-conformity and, if necessary, revise the factory production control to rectify the cause of non-conformity.

9.2.2 Unit checks during manufacture

The manufacturer shall conduct the following unit checks during manufacture :

- a) check that the components meet the specifications ;
- b) check the operation of the device ;
- c) check the marking.