

GNB-CPD SG06	Guidance from the Group of Notified Bodies for the Construction Products Directive 89/106/EEC	NB-CPD/SG06/08/059r1 Issued: 24 Nov 2009 APPROVED – GUIDANCE
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GNB-CPD position paper from SG06 - EN 1155:1997

Certification of Electrically powered hold-open devices for swing doors

General scope, limitations and aim of this guidance for Notified Bodies (NBs)

This position paper contains guidance for Notified Bodies (NBs) involved in the attestation of conformity of electrically powered hold-open devices for swing doors according to EN 1155:1997. The purpose is to help NBs work equivalently and come to common judgments. This guidance contains informative material (which NBs should or may follow) and/or normative guidance (which NBs shall follow or at least work equivalently to as circumstances demand).

This guidance is thought necessary to provide clarity and completeness for NBs so that they can work equivalently. It **supplements and makes practical for NBs** the harmonized standard EN 1155:1997, approved Advisory Group guidance, and Standing Committee guidance in the form of GPs, which also apply - unless otherwise explicitly stated in this guidance. This position paper should **not** contradict nor extend the scope of the work and role of a NB, nor impose additional burdens on the manufacturer, beyond those laid down in the CPD and EN 1155:1997.

This guidance should be considered valid until the relevant standards are amended to include the guidance (as thought fit by the CEN/TC); or until guidance from Commission, SCC, and AG has changed on relevant matters. Whereupon, the paper should be considered for withdrawal/revision and be replaced by new guidance as necessary.

This position paper was considered approved in its original form by SG06 on 8 April 2008 and by Advisory Group on 21 June 2008, and in its revised form on 21 November 2009.

This position paper was revised to indicate that it was re-approved after hearing of a possible member state's (MS's) concern over the CE marking of electrical battery powered hold-open devices to EN 1155 '*Electrically powered hold-open devices*' using the SG06 position paper NB-CPD/SG06/08/059 to make practical the product certification of such devices to EN 1155.

CPDTechSec consulted with CEN/TC 33 on the scope of the standard, the content of the paper and the intentions of the CEN/TC for the standard. The convenor of CEN/TC33/WG4, which covers hardware and includes Task Group 6 responsible for EN 1155, subsequently informed CPDTechSec that:

- '*... It was agreed that the scope of EN 1155 does cover battery powered devices.*'
- '*... It was felt at the meeting that the scope could be improved to make direct reference to battery powered devices, but even the way it is written today it does not rule out these products.*'

- *'... [The Chairman of CEN/TC33] was aware of the guidance paper covering battery powered devices that had been produced and during the next revision of EN 1155 this should be taken into account and the guidance notes written into the standard.'*

This paper therefore retains its approved status, given:

1. the explicit comment of CEN/TC33 above, and;
2. no objections or comments were received after a further consultation¹ with AG and SG06 members after receiving the above comments of the convenor of CEN/TC33/WG4.

PLEASE NOTE:

1. Any MS can object at any time to the content of a standard, and products in conformity with the standard, which the MS believes does/will not enable works in its territory to meet the essential requirements (ERs) using products that conform to the standard. The MS may object to the standard whether it is:
 - * in the development stage;
 - * published by CEN and has not been cited yet in the Official Journal of the EU (OJEU), or;
 - * published by CEN and cited in the OJEU.
2. Article 5 of the CPD entitles MSs to object to the 98/34 Committee about harmonised technical specifications which are not fit for use for their regulatory purposes. The 98/34 Committee is the committee on standards and technical regulations, and consultation of the 98/34 Committee implies a wide consultation of sector authorities at the national level.
3. Rather than go directly to the 98/34 Committee, there is an informal forum (ie the Queries Group) for MSs to raise concerns about harmonised technical specifications under the CPD - ranging from standards already cited in the OJEU where CE marking is already taking place to those still under development in CEN. The current list of technical specifications being reviewed by the Queries Group can be found on the password controlled GNB-CPD CIRCA website in the monitoring folder

http://circa.europa.eu/Members/irc/nbg/cdpqnb/library?l=/monitoring_gnb-cpd&vm=detailed&sb=Date_d

1 Introduction

The scope of EN1155:1997 states that it covers electrically powered hold open devices for use on swing doors. The supply voltage used by these devices is nominally 24V although other supply voltages are permitted subject to local regulations and approval. However it is now apparent that it is not possible to test electrically powered hold open devices that utilise a battery to provide the supply voltage, to the standard without making some interpretations and guidance. In order to test battery powered electrical hold open devices it is considered necessary to give guidance and interpretations to the notified bodies so that they can achieve an acceptable level of transparency, reproducibility and equivalence of results across the member countries of the EU. It should be noted that the CEN task group charged with developing the standard (TC33/WG4/TG6) is aware of this issue and supports the proposed guidance given below.

¹ See NB-CPD/09/397 issued 09 October 2009. No comments were received from either SG06 or AG members by the close of the consultation period on 21 November 2009.

It should also be noted that the following product standard was consulted when producing this guidance: BS EN 14604 'Smoke Alarm Devices', particularly in relation to the battery drain requirements of clause 7.2.5.

The following list identifies those clauses where a common position has been agreed by the Notified Bodies, and is followed by proposed guidance, which has already been agreed by TC33/WG4/TG6, and if approved will be incorporated in the next revision to this standard.

The following draft guidance for the testing of battery powered electrical hold open devices is intended to clarify the test method that should be used when testing this type of product to EN1155:1997.

2 Guidance

2.1 Clause 7.2.2 'Door closer adjustment'

Clause 7.2.2 'Door closer adjustment' states "*Apply rated voltage to the device and verify that it complies with 5.2.5.*". As some of the tests require the voltage to be varied then this voltage has to be supplied by a variable power supply and not the battery.

Clause 7.2.2 shall therefore be read as follows:

Apply rated voltage to the device by a variable power supply and verify that it complies with 5.2.5.

2.2 Clauses 7.2.5 and 7.3.3 'Electrical release'

Clauses 7.2.5 and 7.3.3 'Electrical release' state "*Apply rated voltage to the device and again open the test door to 90 degrees to achieve hold open. Switch off the supply and verify that the device releases the door from the held position in a time of not more than 3s.*".

As the supply to battery powered devices cannot be switched off without removing the battery, clauses 7.2.5 and 7.3.3 shall therefore be read as follows:

Apply rated voltage to the device and again open the test door to 90 degrees to achieve hold open. Open the battery compartment and remove the electrical supply and verify that the device releases the door from the held position in a time of not more than 3s.

Clauses 7.2.5 and 7.3.3 'Electrical release' also state "*Apply rated voltage to the device and open the test door to 90 degrees to achieve hold-open. Reduce the supply voltage by approximately one volt per second and verify that the door is released from the held position before the voltage falls below 2.4V.*".

These requirements are written for 24V devices only and as battery powered devices are typically operated on 3V the requirements need to be reworded. Clauses 7.2.5 and 7.3.3 shall therefore be read as follows:

Apply rated voltage to the device and again open the test door to 90 degrees to achieve hold-open. Reduce the supply voltage by approximately 0.1 volt per minute until the low battery fault warning is given. Record that voltage at which the low battery warning occurs. Verify that the door is released from the held position in less than 3 seconds after the low

battery warning has been activated and that this occurs before the voltage falls below 10% of the rated voltage.

NOTE: In addition to the Construction Products Directive other EU Directives can be applicable to electrically powered hold open devices falling under the scope of this European Standard. Because of their low operating voltage particular attention should be paid to the EMC compatibility of battery powered hold open devices.