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Finger protection devices for pedestrian doors – Specification



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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 January 2017. It was prepared by Subcommittee B/538/4, *Building hardware*, under the authority of Technical Committee B/538/1, *Windows and doors*. A list of organizations represented on these committees can be obtained on request to their secretary.

Information about this document

Finger entrapment in doors might result in serious injuries that can have long term effects such as amputation, or in less severe cases, require significant hospital treatment. Preventing such injuries is therefore important. Where automatic swing doors are fitted, it is a requirement of BS EN 16005 that fingertrap protection be used at the hanging stile(s) of the doorset.

This British Standard focuses on the prevention of entrapment at the hanging stile of doors used by pedestrians, by specifying requirements for protective devices.

It is children who suffer a disproportionate number of finger entrapment injuries, though adults are also at risk. Because of their lack of understanding of the dangers presented by doors, young children might put their fingers into the gap between a door and its frame without any awareness of the possible consequences. Older children and adults are likely to be aware of the risks but might inadvertently put their fingers into the gap. This British Standard therefore covers the needs of all age groups.

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.

Requirements in this standard are drafted in accordance with Rules for the structure and drafting of UK standards, subclause J.1.1, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

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.

1 Scope

This British Standard specifies requirements and test methods for durability, strength and effective function of finger protection devices fitted at the hanging stile of pedestrian doors with the main purpose of preventing inadvertent injury.

NOTE 1 Such finger protection devices might be incorporated into the doorset, or applied to the door and/or frame.

This British Standard is applicable to finger protection devices fitted to side hung and pivoted doors with single or double swing.

It is not applicable to devices fitted to sliding and revolving doors.

This British Standard does not specify requirements for products intended to be fitted by the consumer for use in dwellings.

NOTE 2 Such products are covered by BS EN 16654.

NOTE 3 See Annex A for information on additional attributes.

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 EN 1154, *Building hardware – Controlled door closing devices – Requirements and test methods*

BS EN 1935, *Building hardware – Single-axis hinges – Requirements and test methods*

3 Terms and definitions

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

3.1 dwelling

building or part thereof used for domestic habitation

3.2 finger protection device

device intended to minimize the risk of crushing injuries to fingers in the gap between the hanging stile of the door leaf and the door frame

3.3 type A device

finger protection device fitted to the door and/or frame to shield the gap between the door and frame

3.4 type B device

finger protection device that is an integral part of or attached to the door and/or frame to reduce the gap between door and frame

Note Type B devices might include the door hanging system.