

# BS EN 179 : 2008

## BS EN 179 : 2008 Emergency exit devices operated by a lever handle, push pad or pull pad

Products tested to British and European standards provide greater durability, longer warranty periods, peace of mind and evidence of professional specification.

BS EN 179 specifies requirements for the manufacture, performance and testing of emergency exit devices mechanically operated by a lever handle or a push pad for the purpose of achieving a safe exit under an emergency situation on escape routes.

Under the standard each product is tested and classified accordingly to show its compliance. The identification of a 10-digit code is visible on the individual product. Each digit represents a category and how it measured against the standard to which it was tested.

### Digit 1 - Category of use

Only one category is identified:

**Grade 3:** high frequency of use by public and others with little incentive to exercise care.

### Digit 2 - Durability

Two categories of durability are defined:

**Grade 6:** 100 000 cycles

**Grade 7:** 200 000 cycles

Testing covers the performance under which exit hardware expected to perform, such as:

- (a) Inactive door hardware only
- (b) Used with Door Seals
- (c) Covers additional hardware such as Digital Locks and Deadlocks on Escape Locks
- (d) larger than normal door sizes, outside the standard.

### Digit 3 - Test door mass

Three categories of test door mass are identified:

**Grade 5:** up to 100 kg

**Grade 6:** up to 200 kg

**Grade 7:** over 200 kg

### Digit 4 - Suitability for use on fire/smoke doors

Three categories of fire door resistance are identified:

**Grade 0:** not approved for use on fire/smoke door assemblies.

**Grade A:** Suitable for use on smoke door assemblies

**Grade B:** Suitable for use on fire and smoke door assemblies based on a test in accordance with EN 1634-1

### Digit 5 - Safety

**Grade 1:** all panic devices have a critical safety function therefore only the top grade is identified for this standard.

### Digit 6 - Corrosion Resistance

Two grades of corrosion resistance are identified according to EN1670:

**Grade 3:** High resistance (96 Salt Spray Hours)

**Grade 4:** Very high resistance. (240 Salt Spray Hours)

### Digit 7 - Security

Products covered by EN 179 have 4 identified categories.

**Grade 2:** 1,000 N.

**Grade 3:** 2,000 N.

**Grade 4:** 3,000 N.

**Grade 5:** 5,000 N.

### Digit 8 - Projection of Horizontal Bar

Two grades are identified relating to the projection of the device from the door face:

**Grade 1:** projection up to 150 mm (large projection).

**Grade 2:** projection up to 100 mm (standard projection).

### Digit 9 - Type of Operation

Two categories are identified:

**Type A:** Emergency device with lever handle operator (needs downward pressure to operate)

**Type B:** Emergency device either push pad or pull pad operator. (needs downward pressure or forward pull to operate)

### Digit 10 - Field of Door Application

Four categories are identified:

**Category A:** Outward Opening - single door, double door, active or inactive leaf

**Category B:** Outward Opening - single exit door only

**Category C:** Outward Opening - double exit door, inactive leaf only

**Category D:** Inwardly opening - single exit doors only

### Example

3 7 6 B 1 3 2 2 B B

The above code signifies an emergency exit device tested to 200,000 operations for a door mass of up to 200kg. Suitable for use on fire/smoke door assemblies, with a high corrosion resistance, high security and operated by a B type low projection push pad for use on an outward opening single door only.

 [lloydworrall.co.uk](http://lloydworrall.co.uk)

Lloyd Worrall has checked with sources believed to be reliable in their efforts to provide information that is accurate, comprehensive and timely at the date of publication. However, changes can and will occur. Lloyd Worrall expressly disclaims any representation or warranty, expressed or implied, concerning the accuracy, comprehensiveness, or suitability of the information for a particular purpose. Lloyd Worrall has produced this document in good faith and is not responsible for any error, omissions, or results obtained from the use of this document.

# BS EN 179 : 2008

Note: Other devices available from Lloyd Worrall, whilst not covered by BS EN 179, have a use in controlled situations. The movement of people, in emergency situations, between two segregated areas and in both directions, can be covered by emergency bolts or break dome locks. For example, office to office.

The use of these devices should be with the approval of the local fire authority. They should be used only by people with prior knowledge of their function. On main fire routes, final escape doors and corridor escape routes BS EN 179 and BS EN 1125 should be strictly adhered to.

## Product Marking:

This standard requires that the following should be visible on the product when fitted:

a: Manufacturer's name or trademark or other means of positive identification.

b: Identification number of the certification body

c: CE mark symbol (details of which are found in the annex of the standard).

Other markings which must be visible before fitting:

d: The number and year of the European standard.

e: The full classification code for the product.

f: The month and year of final assembly by the manufacturer. Note: This information can be in a coded form.

Other markings are listed that must be shown on the Packaging and Installation Instructions, such as Field of Door Application, Category of Projection and Product Number.

