



# Briton

## Exit Hardware Classifications Guide

#1 for performance and reliability.

Keeping people safe and secure where they work, rest and play.

### CEN standards explained:

It is mandatory in the European Union for all exit devices to comply with the latest revisions of EN1125:2008 & EN 179:2008.

#### EN 1125

Applies to **PANIC** applications where the exit door is used by public and provides.

"Safe and effective escape through the doorway with minimum effort and without prior knowledge of operation"

DANGER OF PANIC

Typical Applications: Schools, hospitals, theatres etc.

#### EN 179

Applies to **EMERGENCY** applications where the exit door is used by trained personnel who

"Are familiar with the emergency exit and its hardware and therefore a panic situation is unlikely to appear"

NO DANGER OF PANIC

Typical Applications: Offices, Small Apartments etc.

### EN classification codes

Under both standards (EN 1125 and EN 179), each product is classified and graded to identify the level of compliance within each category. These classifications are set out below with the additional element of 'Field of Door Application' introduced in the 2008 edition of EN 1125 and EN 179 shown highlighted.

It is mandatory for manufacturers to mark all panic and emergency exit devices with the new CE classification to prove compliance with the latest standards.

There are 3 ways to be sure exit hardware meets the CE mark criteria:

1. CE certificates are readily available for inspection.
2. Products are regularly tested within a UKAS accredited testing facility as part of an ongoing audit test programme.
3. Products are manufactured on a production line that has been inspected and accredited under FPC (Factory Process Control) conditions, a further requirement of the CE marking process. This ensures that correctly specified materials and manufacturing methods are consistently employed.

**3**  
3 **Category of use**  
Class 3 = high frequency of use by public and others with little incentive to exercise care.

**7**  
6-7 **Durability (Cycle Testing)**  
Grade 6 - 100,000 cycles  
Grade 7 - 200,000 cycles

**6**  
5-7 **Door size/mass**  
Class 5 - doors up to 100kg  
Class 6 - doors up to 200kg.  
Class 7 - doors over 200kg.

**B**  
0-A-B **Fire Resistance (EN 1634)**  
Grade 0 - not approved for fire/smoke door use  
Grade A - approved for smoke door assemblies  
Grade B - approved for use on fire & smoke door assemblies

**1**  
1 **Safety**  
All door closers are required to satisfy the essential requirement of safety in use - only grade 1 is identified.

**3**  
3-4 **Corrosion Resistance (EN 1670)**  
Grade 3 - high resistance  
Grade 4 - very high resistance.

**2**  
2-5 **Security**  
EN 1125 - Grade 2 - up to 1000N.  
EN 179 - Grade 2 - 1000N  
- Grade 3 - 2000N  
- Grade 4 - 3000N  
- Grade 5 - 5000N

**2**  
1-2 **Projection of Device**  
Class 1 - projection up to 150mm  
Class 2 - projection up to 100mm

**A**  
A-B **Type of Operation**  
EN 1125 Type A - 'push bar' operation  
Type B - 'touch bar' operation  
EN 179 Type A - 'lever handle' operation  
Type B - 'push pad' operation

**A**  
A-C **Field of Door Application**  
Category A - Single/Double door. Active or inactive leaf  
Category B - Single door only  
Category C - Double door only. Inactive leaf only



## Which exit device is right for your application?



**Briton 376**  
Push Bar Panic Bolt  
Certified to EN 1125 and CE marked



#### For Single Doors

- Suitable for use on fire & smoke doors up to 1300mm wide
- Non-handed and site reversible to suit both left and right handed doors
- Two-point locking for extra security
- Anti-thrust device, prevents forced latch retraction



**Briton 377**  
Push Bar Panic for Double Rebated Doors  
Certified to EN 1125 and CE marked

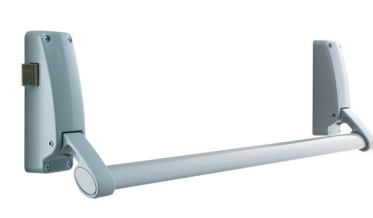


#### For Double Rebated Doors

- Suitable for use on fire & smoke doors up to 2600mm wide
- Non-handed and site reversible to suit both left and right handed doors
- Three-point locking for extra security
- Anti-thrust device, prevents forced latch retraction



**Briton 378**  
Push Bar Panic Latch  
Certified to EN 1125 and CE marked



#### For Single Doors

- Suitable for use on fire & smoke doors up to 1300mm wide
- Non-handed and site reversible to suit both left and right handed doors
- Rim panic latch with single point latching



**Briton 379.N**  
Push Bar Panic with Mortice Nightlatch  
Certified to EN 1125 and CE marked



#### For Single Doors

- Suitable for use on fire & smoke doors up to 1300m wide
- Supplied with dual profile cylinder mortice nightlatch, accepts both euro and oval profile cylinders (cylinder not supplied)
- Non-handed and site reversible to suit both left and right handed doors
- Anti-thrust device, prevents forced latch retraction



**Briton 1438**  
Push Pad Emergency Latch  
Certified to EN 179 and CE marked



#### For Single Doors

- Site reversible for left or right hand
- Security Grade 4: 3,000 Newtons
- Can be used with a rim cylinder fitted to the outside of the door



**Briton 372**  
Push Pad Emergency Bolt  
Certified to EN 179 and CE marked



#### For Single Doors

- Suitable for use on fire & smoke doors up to 2500mm high
- Two point locking for extra security - Security Grade 4: 3,000 Newtons



**Key:** Level of security

Located in a Public Area - Certified to EN 1125

Located in a Non Public Area - Certified to EN 179

CE all products are CE certified

EPD all products are Tested to ISO 14025 and EN 15804 environmental product declarations

Certifire all products are Certifire approved.

### Need Access from Outside?

- Lever (1413.LE) or knob (1413.KE) operated version
- A combination of market trends and the effect of The Equalities Act (DDA) has resulted in an increase in demand for lever operation
- Lever supplied loose to allow easy on-site handing
- Over 8000 non sequential code options
- Supplied with Euro profile cylinder as standard
- Briton 9260 digital code lock option with lever operation
- Suitable for single and double door applications.



1413.LE

1413.KE

9260

### Technical data

#### Push bar device - 560 Series

The main and end casings are steel components, mounted on a steel chassis and covered by a precision zinc die-cast cover. The steel latch is activated by a tubular steel bar.

#### Touch bar device - 570 Series

The main casing & rear bracket are constructed of steel components mounted on a steel chassis and are covered by a precision zinc die cast cover. The steel latch is activated by an extruded aluminium touch bar enclosed in an extruded aluminium channel.

#### Locking kits (574.V/574.S/574.VS/574.AS)

The locking points are constructed of steel components mounted on a steel chassis incorporating a steel latch. Connection to the push bar or touch bar device is via adjustable stainless steel cable concealed by an extruded aluminium cover.

#### Fixing/Installation - 560-570 Series

These surface mounted devices come complete with easy to follow pictorial fixing instructions. Self adhesive Accufit templates ensure accurate installation of backplates for mounting the operating mechanism and pullman latches. Mechanisms are clamped onto the backplates. Flexible steel cables connecting the operating mechanism to the pullman latches require no measuring and adjustment screws in the main unit allow for fine adjustments. Clip on covers to the main unit and pullmans complete the installation. The devices are supplied with non-standard tools for convenience, and adjustable strikers with packers to ensure continued optimum performance. Fixing and maintenance instructions must be passed on to the user upon completion of installation.

#### Construction - 376 Series

Aluminium die cast body and end boxes, with extruded aluminium guides. Solid steel shoot ends with tubular steel shoots and push bars. Latch bolts are manufactured from extruded brass.

#### Fixing/Installation - 376 Series

Surface mounted and easily installed as fully described in the fixing instructions. Bars and shoots are supplied with loose end plugs and should be cut to exact size on site. Top and bottom shoots allow 5mm adjustment to ensure accurate fixing. Fixing and maintenance instructions must always be passed on to the user upon completion of installation. Supplied with either self tapping screws or metal thread screws dependent on product selection.

#### Fire/smoke

Reference the Fire Precautions Act 1971, always consult the Local Fire Officer for his/her interpretation of the Act before finalising specification. Products within the Briton 560-570 and 376 series have been included in successful fire tests to EN 1634 and/or BS 476 Part 22. Contact Technical Support on 0800 834102 for the precise field or application details.

#### Guarantee

To back up the high quality performance guarantee and durability of Briton panic and emergency exit devices, they are supplied with a 5 year guarantee on mechanical parts, with free replacement ex-works of any panic and emergency exit hardware proved defective by reason of either faulty manufacture or defect in materials.

#### CE certification

Copies of our CE Certificates and declaration of performance are available to download from our website: [www.allegion.co.uk](http://www.allegion.co.uk)

#### Special applications

For special applications outside those mentioned within this brochure please contact technical support on 0800 834102 who will be able to advise and assist with product selection for non-standard installations.

### Maintenance

Panic and emergency exit hardware play a vital role in the buildings escape route, and it is important that these devices are inspected and maintained properly to ensure safety at all times.

As recommended in EN 1125 and EN 179 the following routine maintenance checks should be undertaken at intervals of not more than 1 month by the occupier or his approved representative:

- Inspect and operate the emergency exit device to ensure all components are in satisfactory working condition
- Ensure that keepers are free from obstruction

#### Technical support

If you have any queries regarding Briton exit devices and product selection please call our technical support department who will be pleased to offer any assistance on any aspect of our products including queries on:

- Product selection
- Advice on installation
- Trouble shooting
- Ancillary products and spare parts.

For further details call the Technical Support team on freephone 0800 834102

#### Supply & quotations

The Briton 560-570 and 376 series are available through a nationwide network of architectural ironmongers and builders' merchants. For your local stockist please contact the Customer Care Team on T: +44 (0) 330 8080 617 or visit our website [www.allegion.co.uk](http://www.allegion.co.uk)



# Which door closer is right for your application?

# Briton Door Closer Classifications Guide

## An essential element in safeguarding lives and property

The principal objective of a door closer is to close a door and in the case of unlatched fire doors in a corridor, to keep the doors closed in the event of a fire. Most applications where the specification of a door closing device is mandatory, must use a product which conforms to the requirements of European Standard EN 1154 (or EN 1155 for electrically controlled units) and be CE marked accordingly.

## EN 1154 - A harmonised standard designed for life safety

All forms of "Controlled Door Closing Devices" are covered by a harmonised European Standard, EN 1154. It provides details on product types and classifies products by use, test cycles, door mass, corrosion resistance and product performance requirements using a six digit classification code.

Closers which are controlled by an electromagnetic function must comply with the additional requirements of EN 1155.

### Fire doors

Within EN 1154, certain recommendations are made for closing devices used on fire door assemblies. These include:

- Closers size 1 and 2 are not considered suitable for use on fire doors.
- Door closers shall not include a hold-open device unless it is an electrically powered device connected to the building fire alarm system.
- Control regulators shall be either concealed or operable only by means of a tool.

Approved Document B of the UK Building Regulations states that, in the majority of cases, 'a fire door should be fitted with a door closer which is capable of closing the door... from any angle and against any latch fitted'. In the European Union, CE marking is the most effective way to prove compliance with this requirement.

**4** **Category of use**  
3-4  
For all internal and external doors for use by the public  
- grade 3: For closing doors from at least 105° open  
- grade 4: For closing doors from 180° open

**8** **Number of test cycles**  
8  
- grade 8: 500,000 test cycles

**4** **Test door mass/size**  
1-7  
Seven grades are identified

**1** **Fire behaviour**  
0/1  
- grade 0: Not suitable for use on fire/smoke door assemblies  
- grade 1: Suitable for use on fire/smoke door assemblies

**1** **Safety**  
1  
All door closers are required to satisfy the essential requirement of safety in use - only grade 1 is identified.

**3** **Corrosion resistance**  
0-4  
Five grades of resistance are identified to EN 1670  
- grade 0: No defined corrosion resistance  
- grade 1: Mild resistance (24 hours)  
- grade 2: Moderate resistance (48 hours)  
- grade 3: High resistance (96 hours)  
- grade 4: Very high resistance (240 hours)

### Closing force v Opening force



The closing force required to fulfill the life saving fire-safety function demanded by EN 1154 can, for some elderly or disabled people, be difficult to overcome and the door can become a barrier to safe and easy access for them.

Within the detail of BS 8300 and Approved Document M of Building Regulations, there is a requirement to achieve low opening forces to satisfy the need for easy and universal accessibility. As a consequence there is a conflict between the required closing force for fire safety and the desirable opening resistance which requires special consideration in the specification process.

We strongly recommend you discuss such applications with an Allegion Specification Consultant who can advise on the most appropriate solution.

### Closer power explained:

#### EN Closer power settings

Within EN 1154 seven closer power ratings are identified according to the maximum door leaf weight and width.

These are theoretical figures and the final closing power of any door closing device will be subject to any number of variables such as:

- Accuracy of closer installation
- Accuracy of door installation
- Friction in hinges
- Negative or positive air pressure

Because of such variables, the specification of an adjustable door closer is recommended to allow for site variables.

EN Size	Max. door weight (kg)	Max. door width (mm)
1	20	750
2	40	850
3	60	950
4	80	1100
5	100	1250
6	120	1400
7	160	1600

All the door closers provided by Allegion are fully CE certified and CE marked as a required for applications in the European Union. We would recommend that the use of a CE marked door closer is the best way of ensuring the product you are using is fit for purpose and meets all legal requirements, particularly when used on fire doors.

## Low to Medium Usage

All door closers are suitable for fire and non-fire doors



**Briton 121CE**  
Fixed power size EN 3 compact overhead door closer

- Suitable for doors up to 950mm and 60kg
- Door or frame mount applications
- Screw thread armset
- EN Classification 483113



**Briton 131**  
Template adjustable power size EN 2-4

- Suitable for doors up to 1100mm and 80kg
- Door or frame mount applications (regular & parallel applications only)
- Adjustable soft closing speed and latch action
- EN Classification 382-4113



**Briton 1110**  
Template adjustable power size EN 2-4 overhead closer

- Suitable for doors up to 1100mm and 80kg
- Door or frame mount applications
- Adjustable closing speed & latch action
- Self-adhesive fitting template
- EN Classification 382-4113



**Briton 2003**  
Fixed power size EN 3 overhead closer

- Suitable for doors up to 950mm and 60kg
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- Self-adhesive fitting template
- Fire door usage (regular & transom applications only)
- EN Classification 483113



**Briton 1120B**  
Spring adjustable power size EN 2-4 overhead closer

- Suitable for doors up to 1100mm and 80kg
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- CE marked with backcheck in all applications
- EN Classification 482-4113



**Briton 2003V**  
Spring adjustable power size EN 1-4 overhead door closer

- Suitable for doors up to 1100mm and 80kg
- Door or frame mount applications
- Adjustable closing speed and latch action
- CE marked with backcheck in all applications
- Self-adhesive fitting template
- EN Classification 482-4113



**Briton 1130B**  
Spring adjustable power size EN 2-6 overhead closer

- Suitable for door up to 1400mm to 120kg
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- CE marked with backcheck in door mount pull and parallel arm applications
- EN Classification 482-4113



**Briton 2130B**  
Spring adjustable power size EN 2-6 overhead closer

- Suitable for doors up to 1400mm and 120kg
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- Backcheck capability
- Self-adhesive fitting template
- EN Classification 482-113



**Briton 2300**  
Adjustable power size EN 2-4 cam action track closer

- Suitable for doors up to 1100mm and 80kg
- Push and pull mount applications
- Backcheck capability
- Optional hold-open function (Not suitable for fire doors)
- Self-adhesive fitting template
- EN Classification 482-4113



**Briton 2700**  
Adjustable power size EN 2-5 cam action track closer

- Suitable for doors up to 1250mm and 100kg
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- CE marked backcheck and delayed action
- Hold-open capability
- Self-adhesive fitting template
- Power adjust dial feature for easy power adjustment
- EN Classification 482-5113



**Briton 996**  
Fixed power size EN 3, 4 & 5 Hold-open & Free-Swing

- Suitable for doors up to 1250mm to 100kg
- For doors linked to a fire alarm system
- Door or frame mount applications
- Adjustable soft closing speed and latch action
- Ideal for environments covered by The Equality Act legislation as doors can be safely held open or allowed to swing free depending on power size



**Key:** CE all products are CE certified

Certifire approved.

Capable of meeting BS8300 approved Document M requirements.

Tested to ISO 14025 and EN 15804 environmental product declarations.

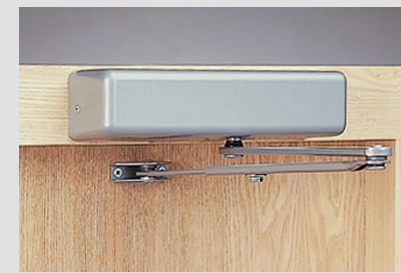
Fire tested to EN 1164 to achieve a rating on timber and metal doors.

\*Guarantee 2 years electrical, 10 years mechanical  
\*\* Only applicable to trimplate version

### Mounting positions



**Projecting arm**  
Regular fixing (door mounted pull side)



**Projecting arm**  
Transom fixing (transom mounted push side)



**Projecting arm**  
Parallel fixing (door mounted push side)



**Slide arm**  
Door mounted pull side



**Slide arm**  
Door mounted push side



**Slide arm**  
Transom mounted pull side



**Slide arm**  
Transom mounted push side

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