# Briton

*376 Series Panic and Emergency Exit Hardware*




Ingersoll Rand

# Briton 376 Series

The Briton 376 Panic and Emergency Exit Hardware Series has been designed to provide immediate escape at all times. Recently updated with a new stylish look, the Briton 376 Series still incorporates all the features and benefits expected from a panic exit device that is branded **Briton**.

The range, comprising of the following variants, is fully compliant to EN 1125:2008 or EN 179:2008, is CE marked to the latest standards and comes complete with a 5 year warranty:

- Vertical panic bolts
- Reversible rim panic latches
- Mortice panic nightlatches
- Push pad vertical bolts
- Reversible push pad rim panic latches

5 YEAR GUARANTEE

CE

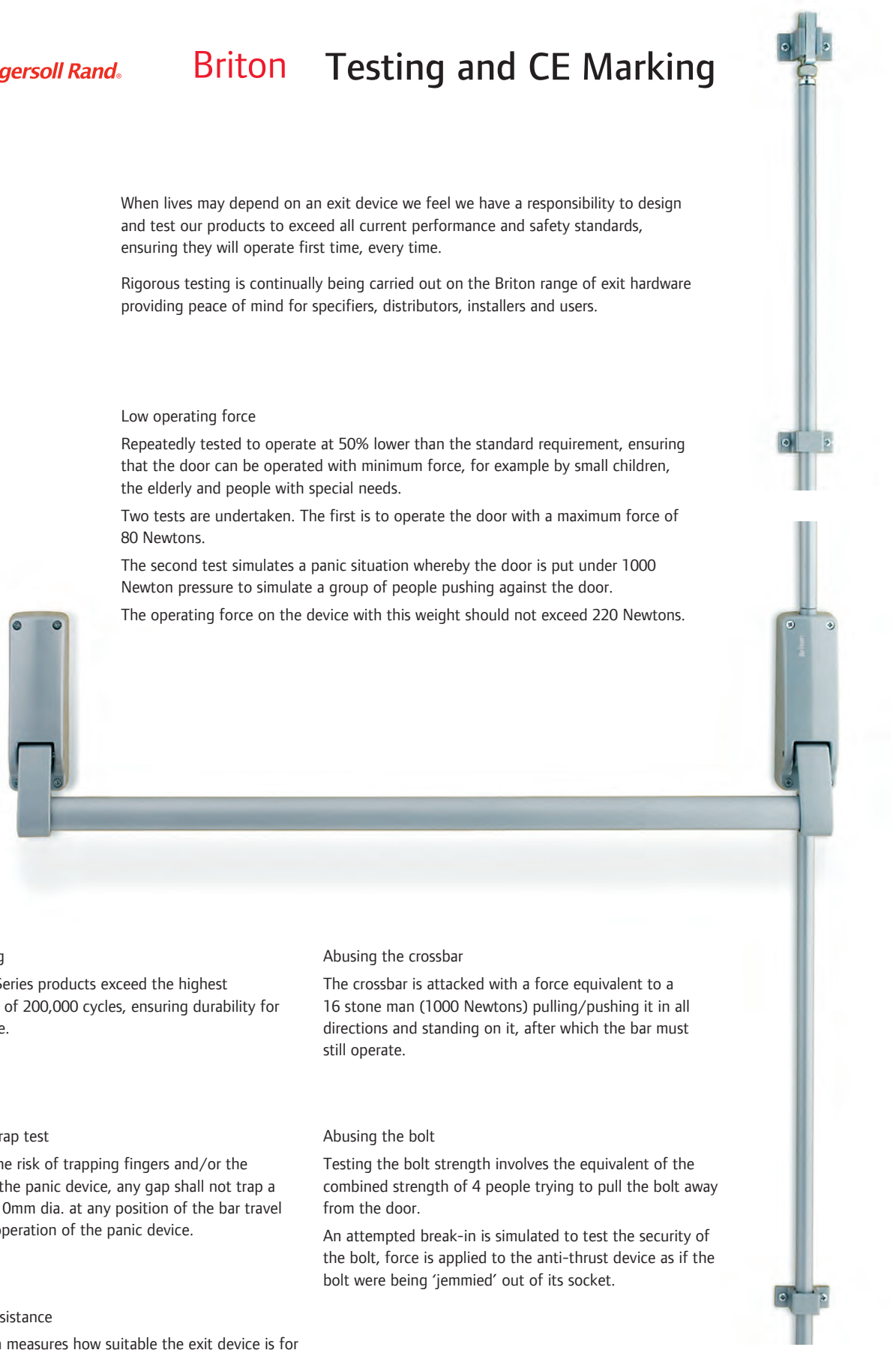





# Briton Testing and CE Marking

When lives may depend on an exit device we feel we have a responsibility to design and test our products to exceed all current performance and safety standards, ensuring they will operate first time, every time.

Rigorous testing is continually being carried out on the Briton range of exit hardware providing peace of mind for specifiers, distributors, installers and users.



## Low operating force

Repeatedly tested to operate at 50% lower than the standard requirement, ensuring that the door can be operated with minimum force, for example by small children, the elderly and people with special needs.

Two tests are undertaken. The first is to operate the door with a maximum force of 80 Newtons.

The second test simulates a panic situation whereby the door is put under 1000 Newton pressure to simulate a group of people pushing against the door.

The operating force on the device with this weight should not exceed 220 Newtons.

## Cycle testing

Briton 376 Series products exceed the highest requirement of 200,000 cycles, ensuring durability for everyday use.

## Abusing the crossbar

The crossbar is attacked with a force equivalent to a 16 stone man (1000 Newtons) pulling/pushing it in all directions and standing on it, after which the bar must still operate.

## The finger trap test

To reduce the risk of trapping fingers and/or the blocking of the panic device, any gap shall not trap a test rod of 10mm dia. at any position of the bar travel during the operation of the panic device.

## Abusing the bolt

Testing the bolt strength involves the equivalent of the combined strength of 4 people trying to pull the bolt away from the door.

An attempted break-in is simulated to test the security of the bolt, force is applied to the anti-thrust device as if the bolt were being 'jemmied' out of its socket.

## Corrosion resistance

A test which measures how suitable the exit device is for varying environmental conditions. All Briton 376 Series hardware has been tested to EN 1670 Building Corrosion Requirements and has achieved at least grade 3 (high resistance). This ensures the product will function correctly in wet, polluted and exterior environments. Note, EN 1670 test does not relate to the finish.

# Briton Testing and CE Marking



CE

From 1st January 2010 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.




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.

**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 panic and emergency devices have a critical safety function therefore 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

# Briton Push Bars

**"The most important thing you must consider when specifying panic exit hardware is who might be in the building in the event of an emergency."**

The following range consists of a vertical panic bolt, rim panic latch and a mortice nightlatch operator. Each product is operated by a horizontal push bar which, when pushed in a downward arc, withdraws either the bolts or the latch, releasing the door for immediate escape in the event of an emergency.







Briton 376 vertical panic bolt

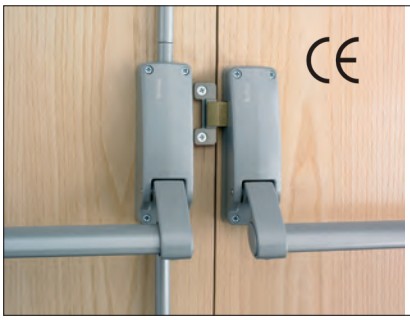
- Two point locking for extra security
- Anti-thrust device, prevents unauthorised retraction of the latch bolt
- Suitable for use on single and double door applications
- Self-handed - will suit both left and right handed doors
- Suitable for doors up to 2500mm high x 1300mm wide (extension rods are required to achieve maximum sizes)
- Optional models available include pullman latches, alarmed and manually dogged (hold open) functions
- Adjustable top and bottom shoots
- Supplied with an easy clean socket

Briton 378 reversible rim panic latch

- Suitable for use on single doors and the first opening leaf of double doors with rebated meeting stiles
- Supplied in left or right hand, but can be reversed on site
- Suitable for doors up to 1300mm wide
- Double door strike available for double rebated door applications
- Available with manual dogging (hold open)
- Can be used with rim cylinder fitted to the outside of the door

Briton 379.N mortice panic nightlatch

- Suitable for use on single and the first opening leaf of double door applications
- Supplied right hand, but can be reversed on site
- Suitable for doors up to 1300mm wide
- Suitable for use with Legge 990 mortice lock, not included



Briton 377
Double rebated door panic set

Comprises a Briton 376 vertical panic bolt, 378 reversible rim panic latch & 378DDS double door strike in one convenient pack.

For information on metal door options please see page 9 for further details.