

## Ingersoll Rand Security Technologies: FAQs

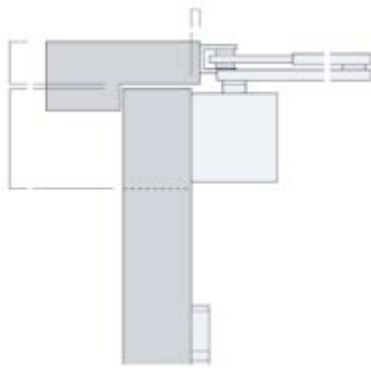
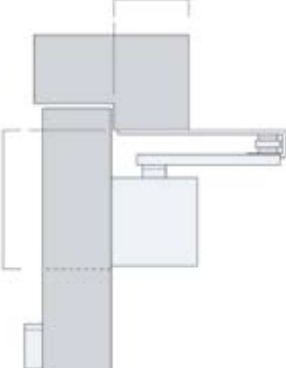
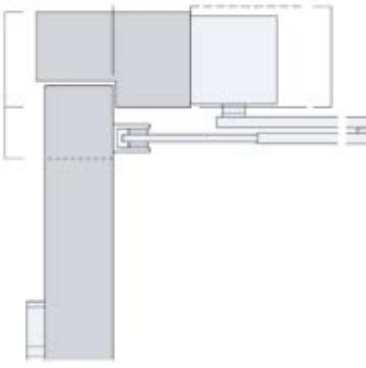
### Q) Door closers can have various functions but what do they mean?

A) Different door closers have different functions and benefits. Here are some descriptions of the most common:

- **Backcheck:** A 'cushioning' effect to prevent damage to the door and adjoining structure if door is thrown or blown open.
- **Delayed action:** A closer with delayed action will stay open for a certain amount of time and then close at a preset speed. Using a closer with delayed action is suitable for areas where they may be wheelchair users, people with reduced mobility or a lot of baggage.
- **Tri-packed:** This means the closer offers various fixing positions eg. application 1, application 66 etc
- **Template adjustable:** Where the door closer strength is determined by the fixing position.
- **Windthrough adjustable:** Where the door closer strength is determined by physical windthrough adjustment of the closer spring.

### Q) What do the different door closer applications (1/61/66) mean?

A) These applications refer to how the door closer is fitted to the door. The diagrams below show the most common scissor arm applications.

		
Application 1 – closer fixed to 'pull' side of door	Application 66 – closer fixed to 'push' side of door with the arm running parallel to the door.	Application 61 – closer fitted to door frame on 'push' side of door

### Q) How do I know which closer to choose?

A) The door closer you should choose depends on the door size and mass. The following table explains which size to use:

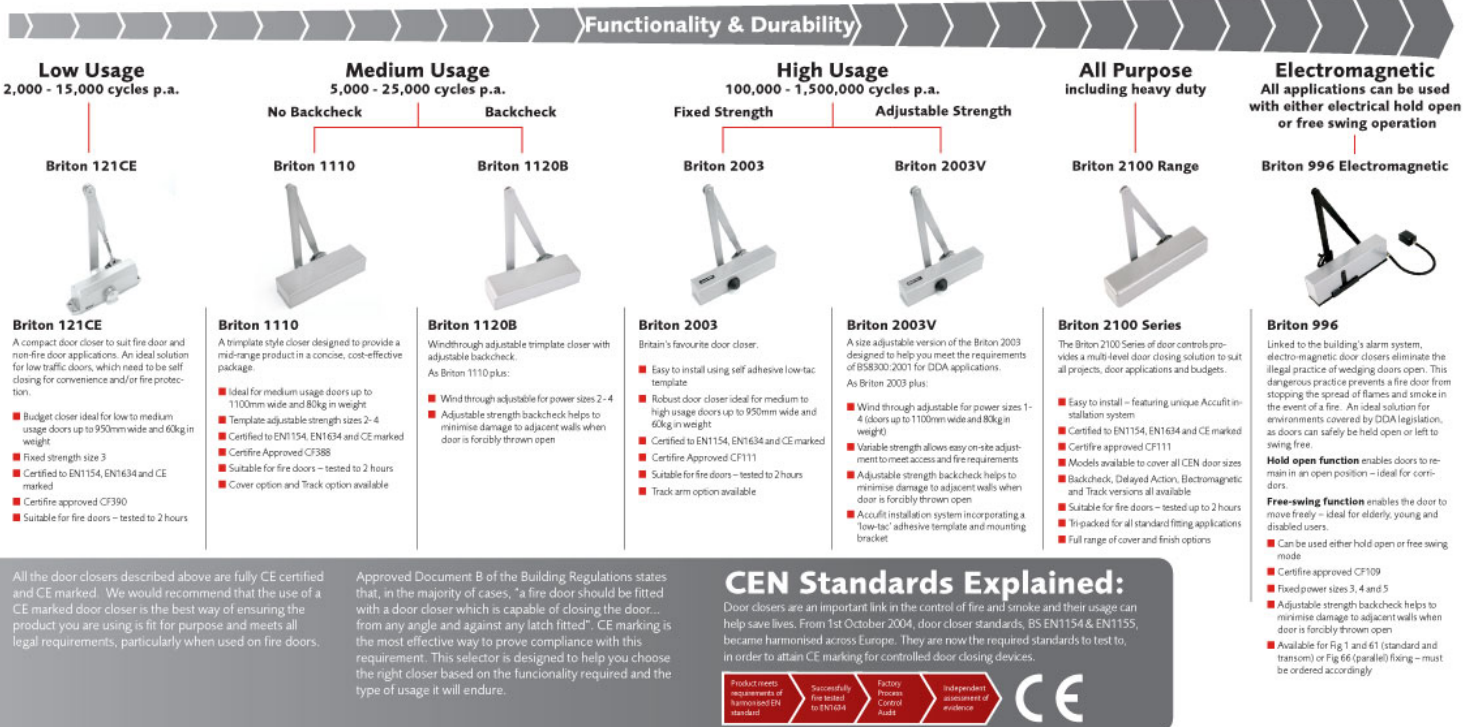
Closer size	max. door size (width – weight)
1	750mm - 20kg
2	850mm - 40kg
3	950mm - 60kg
4	1100mm - 80kg

5	1250mm - 100kg
6	1400mm - 120kg
7	1600mm - 160kg

# Briton

## Which Door Closer?

### Select the correct Briton door closer for your application



### Q) Can I fit a Briton 121CE closer in application 66 (parallel arm application) and it still be suitable for a fire door?

A) The 121 can be fitted in this application using a 121.BRK66 bracket, however, the closer loses 2 strengths in this application and would be unsuitable for a fire door.

### Q) What requirements does a panic exit device need to meet?

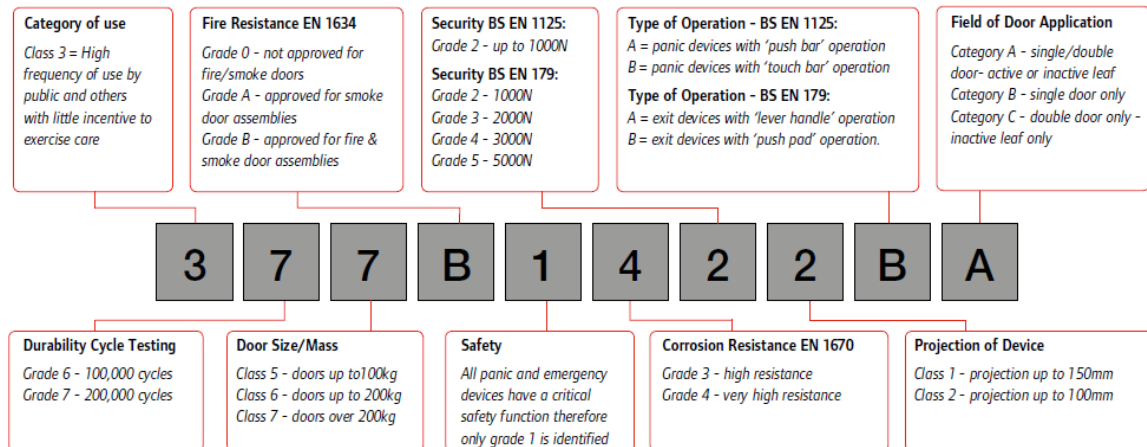
It is mandatory for all panic exit devices to comply with the latest revisions of EN 1125:2008 and CE Marking. This standard covers panic exit devices for buildings used by the public providing 'safe and effective escape through the doorway with minimum effort and without prior knowledge of operation'.

Push pad or lever handle devices must comply with EN 179:2008. This standard applies where the exit door is in a low occupancy environment and will only be used by trained personnel, such as in a place of work never accessed by the public or people unfamiliar with the escape drill.

Devices undergo various tests to meet these standards such as durability, fire resistance and security.

## A Guide To CE Marking

Briton exit devices with the CE mark will show the EN 1125 classification numbers (see below) and the test house logo on the product.



## Q) How do I know which exit device to choose?

It is important to select the right exit device to ensure safety and security of a building and its inhabitants. The guide below shows the most suitable Briton device for different applications:

# Briton Which Exit Device?

Select the correct Briton exit device for your application

Is it a Public Area? or a Non Public Area?

Single Doors			Double Rebated Doors		Single Doors	
Increased Security					Increased Security	
<b>Briton 378</b> Reversible Rim Panic Latch	<b>Briton 376</b> Vertical Panic Bolt	<b>Briton 379.N</b> Mortice Panic Nightlatch	<b>Briton 377</b> Double Rebated Door Panic Set	<b>Briton 1438</b> Reversible Push Pad Rim Latch	<b>Briton 372</b> Push Pad Vertical Bolt	
<ul style="list-style-type: none"> <li>■ Certified to EN1125 and CE marked</li> <li>■ Easy to install</li> <li>■ Supplied in left or right hand, but can be reversed on site</li> <li>■ Suitable for doors up to 1300mm wide</li> <li>■ Can be used with rim cylinder fitted to the outside of the door</li> </ul>	<ul style="list-style-type: none"> <li>■ Certified to EN1125 and CE marked</li> <li>■ Two point locking for extra security</li> <li>■ Anti-thrust device, prevents unauthorised retraction of the latch bolt</li> <li>■ Suitable for doors up to 2500mm high x 1300mm wide (extension rods are required to achieve the maximum sizes)</li> <li>■ Supplied with an easy clean socket</li> </ul>	<ul style="list-style-type: none"> <li>■ Certified to EN1125 and CE marked</li> <li>■ Supplied right hand, but can be reversed on site</li> <li>■ Suitable for doors up to 1300mm wide</li> <li>■ Supplied with dual profile cylinder mortice nightlatch, accepts both euro and oval profile cylinders (cylinder not supplied)</li> <li>■ Anti-thrust device, prevents unauthorised retraction of the latch bolt</li> <li>■ Optional models include alarmed and manually dogged (hold open) functions</li> </ul>	<ul style="list-style-type: none"> <li>■ Certified to EN1125 and CE marked</li> <li>■ Single package that can be used on double rebated doors</li> <li>■ Consisting of a Briton 376 vertical panic latch and a 378DD5 double door strike in one convenient pack</li> </ul>	<ul style="list-style-type: none"> <li>■ Certified to EN179 and CE marked</li> <li>■ Supplied in left or right hand, but can be reversed on site</li> <li>■ Suitable for doors up to 1300mm wide</li> <li>■ Security - Grade 4: 3,000 Newtons</li> <li>■ Double door strike available for double rebated door applications</li> <li>■ Can be used with a rim cylinder fitted to the outside of the door</li> </ul>	<ul style="list-style-type: none"> <li>■ Certified to EN179 and CE marked</li> <li>■ Two point locking for extra security - Security grade 4: 3,000 Newtons</li> <li>■ Anti-thrust device, prevents unauthorised retraction of the latch bolt</li> <li>■ Suitable for doors up to 2500mm high x 1300mm wide (extension rods are required to achieve the maximum sizes)</li> <li>■ Supplied with an easy clean socket</li> </ul>	

## Need Access from Outside?

### Briton 1413E/KE

- Knob Variant
- Allows access from outside
  - Can be used in conjunction with all above exit devices
  - Ergonomic design providing improved grip in wet conditions
  - Non-handed

### Briton 1413E/LE

- Lever Variant
- A combination of market trends and the effect of The Disability Discrimination Act (DDA) has resulted in an increase in market demand for lever operation
  - Lever supplied loose to allow easy on-site handing

## CEN Standards Explained:

From 1st January 2010, it is mandatory for all exit devices to comply with the latest revisions of EN 1125:2008 & EN 179:2008. These two standards govern the application of panic and emergency exit hardware, but which standard applies to which application?

**EN 1125** applies to panic applications where the exit door is used by the public and provides "safe and effective escape through the doorway with minimum effort and without prior knowledge of operation".

**For example:** in theatres, schools, shops, hospitals, cinemas

**Product type:** touch bars and cross bars which cover the full width of a door. Briton 376, Briton 377, Briton 378

**EN 179** applies to emergency applications where the exit door is used by people who "are familiar with the emergency exit and its hardware and therefore a panic situation is unlikely to occur".

**For example:** in a low occupancy place of work, never accessed by the public or people unfamiliar with the escape drill.

**Product type:** push pads and escape levers Briton 1438 Briton 372

When in doubt ALWAYS choose a product certified to EN1125

## Q) How much of the door does a touchbar panic exit device need to cover?

A) According to EN 1125 the length of the touchbar unit should be as near as possible to the effective width of the opening and not less than 60% of the width of the opening.