



Axelent **X-Protect**

PRODUCT RANGE & TECHNICAL SPECIFICATIONS



12

Your safety is our mission since 1990

Axelent is a complete supplier of safety for production, warehouses, and properties. Our mission is that all employees should have a safe working environment.

Today, we are one of the largest suppliers of safety solutions for the industry and most of our employees are located at the head office in Hillerstorp, Sweden, where all our products are developed and manufactured.

Axelent X-Protect

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- 20. Pedestrian + Impact Barriers
- 24. Column Guard



Towards a sustainable future

Continual improvement and smart solutions are central to Axelent's sustainability work.

With a strategy entailing continual development and renewal, we aim to reduce our environmental impact in all areas of operations.



More information at
WWW.AXELENT.COM.AU



Protection designed for a simple future

X-Protect is a unique approach to safety barriers. Unrivalled modularity, using only a few system components and damping that is built in to create a barrier system that changes with your work place. X-Protect allows rapid transformation, repair or replacement of existing barriers and bespoke configurations are limitless.





Assembly

X-Protect is **incredibly easy to assemble and dis-assemble** with minimal tools.



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Environment

Sustainability is at the forefront of our minds. **Only one kind of plastic is used in each part, which makes the product optimal for recycling.** When it is worn out, you can simply recycle the material.

It also **allows for damaged or worn parts to be replaced at a component level.** The materials are the result of careful choices, all to make X-Protect as long-lived and environmentally friendly as possible.



Packaging

All X-Protect components have been **designed with packing efficiency in mind**, so that space is optimised.

Furthermore, we use our **X-Pack** packing philosophy so the parts you need are on hand and installations can start quickly.

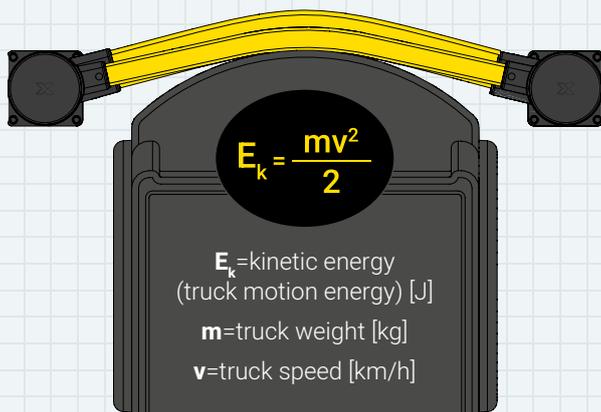
Impact testing

We conduct hundreds of tests at our state-of-the-art testing facility every year. Using a weighted forklift truck replica, we can apply **repeatable real-world forces to impact zones**.

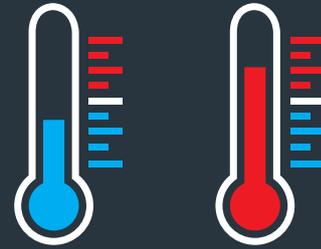
For further information on our testing methods or detailed test reports please contact your Axelent representative.



YOU CAN READ ABOUT THE TEST RESULTS FOR EACH CONFIGURATION ON THEIR RESPECTIVE PAGES, BEGINNING ON PAGE 6.



Operating temperature



-10°C → 40°C





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Bollards

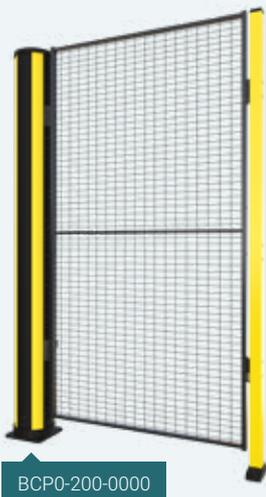
IMPACT TEST RESULTS

| Bollard height | Load | Equivalent to | | 90° Deflection | Force to fixings |
|----------------|--------|---------------------|---------------------|----------------|------------------|
| 350mm | 3200 J | 2500 kg 5.7 km/h | 5000 kg 4 km/h | NA * | 18 kN |
| 610mm | 5250 J | 2500 kg 7.3 km/h | 5000 kg 5.2 km/h | 300mm | 19.5 kN |
| 870mm | 5250 J | 2500 kg 7.3 km/h | 5000 kg 5.2 km/h | 420mm | 17.5 kN |
| 1160mm | 5250 J | 2500 kg 7.3 km/h | 5000 kg 5.2 km/h | 620mm | 12 kN |

* Due to the bollard height, it is considered that the deflection is not critical for product selection.

When should you use the X-Protect Bollards?

✓ Use our X-Protect bollards to protect doorways, exposed corners and machinery. The black and yellow bollards also attract the fork lift driver's attention and act as guidance along traffic routes.



X-Guard compatible bollards

✓ If you have our machine guard system X-Guard installed, it is easy to integrate it with our X-Protect range. This taller bollard comes in three heights to fit our most common panel options. Following on from the bollard you can then choose any configuration of X-Protect.*

* Please consult with your Axelent representative for correct usage.

BCP0-116-0000

BCP0-087-0000

BCP0-061-0000

BCP0-035-0000

350-1160mm



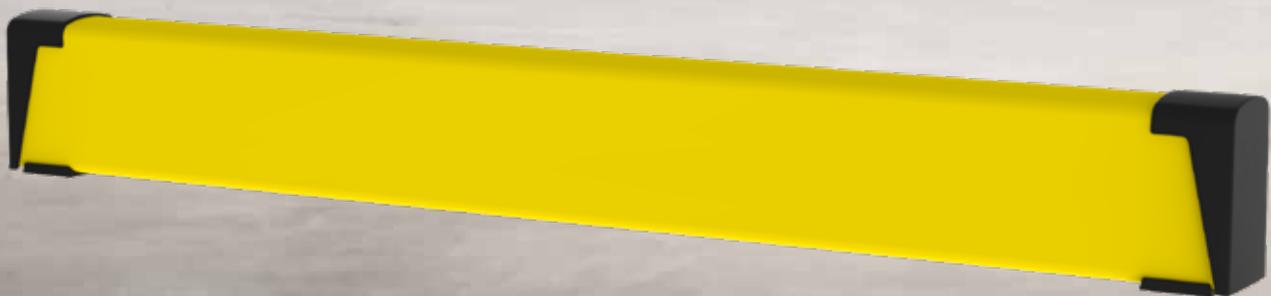
| ARTICLES FOR BOLLARDS & X-GUARD CONNECTION | | |
|--|------------------------------|-------------------------|
| Art.No. | Product name | Colour |
| Bollards | | |
| BCP0-035-0000 | Bollard, H=350mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-035-0000 | Bollard, H=350mm W=200mm | ● RAL 1018 |
| BCP0-061-0000 | Bollard, H=610mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-061-0000 | Bollard, H=610mm W=200mm | ● RAL 1018 |
| BCP0-087-0000 | Bollard, H=870mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-087-0000 | Bollard, H=870mm W=200mm | ● RAL 1018 |
| BCP0-116-0000 | Bollard, H=1160mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-116-0000 | Bollard, H=1160mm W=200mm | ● RAL 1018 |
| X-Guard compatible bollards ** | | |
| BCP0-140-0000 | Bollard, H=1400mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-140-0000 | Bollard, H=1400mm W=200mm | ● RAL 1018 |
| BCP0-200-0000 | Bollard, H=2000mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-200-0000 | Bollard, H=2000mm W=200mm | ● RAL 1018 |
| BCP0-230-0000 | Bollard, H=2300mm W=200mm | ● RAL 1018 & ● RAL 9011 |
| BCP1-230-0000 | Bollard, H=2300mm W=200mm | ● RAL 1018 |
| X-Guard Connection | | |
| CCS3-140-XGC | X-Guard Connection, H=1400mm | ● RAL 9011 |
| CCS1-140-XGC | X-Guard Connection, H=1400mm | ● RAL 1018 |
| CCS3-200-XGC | X-Guard Connection, H=2000mm | ● RAL 9011 |
| CCS1-200-XGC | X-Guard Connection, H=2000mm | ● RAL 1018 |
| CCS3-230-XGC | X-Guard Connection, H=2300mm | ● RAL 9011 |
| CCS1-230-XGC | X-Guard Connection, H=2300mm | ● RAL 1018 |

* Please consult the assembly manual for the complete list of all articles. Scan the QR code on page 4 to download it.

** Can only be used in combination with X-Guard.



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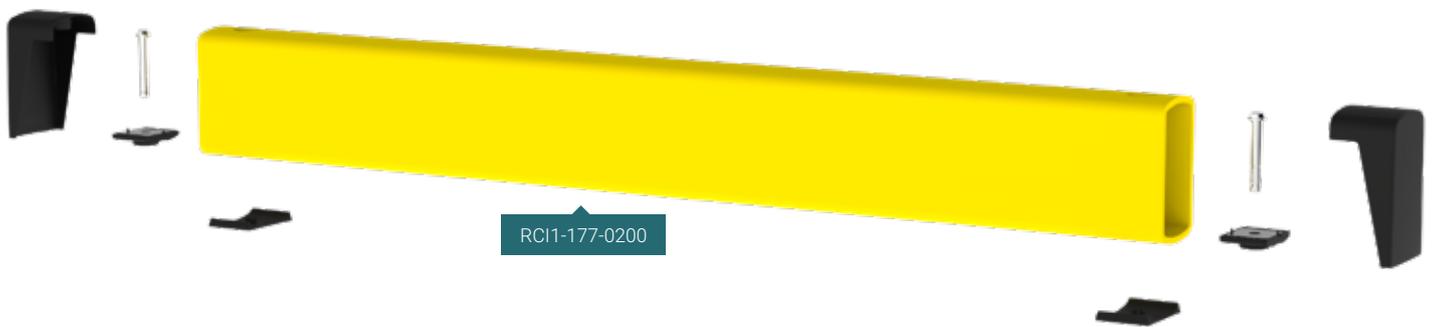
Floor Barrier

FLOOR BARRIER TEST RESULTS

| Length | Load | Equivalent to | 90° Deflection | Force to fixings | |
|--------|--------|---------------------|---------------------|------------------|---------|
| 1770mm | 3000 J | 2500 kg 5.6 km/h | 5000 kg 4 km/h | 200mm | 14.9 kN |
| 2270mm | 3000 J | 2500 kg 5.6 km/h | 5000 kg 4 km/h | 240mm | 13.8 kN |
| 2770mm | 2700 J | 2500 kg 5.3 km/h | 5000 kg 3.7 km/h | 270mm | 14.7 kN |

When should you use the Floor Barrier?

✔ Use the Floor Barrier for ground level impact protection. It offers cost effective protection for building perimeters and other infrastructure.



ARTICLES FOR FLOOR BARRIER

| Art.No. | Product name | Colour |
|---------------------|----------------------------------|------------|
| End covers | | |
| FCE3-022-1100-2 | Floor barrier end - 2 pack | ● RAL 9011 |
| FCE3-022-1100-10 | Floor barrier end - 10 pack | ● RAL 9011 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-064-0087 | Impact rail, L=640mm C-C=870mm | ● RAL 1018 |
| RCI1-067-0090 | Impact rail, L=670mm C-C=900mm | ● RAL 1018 |
| RCI1-074-0097 | Impact rail, L=740mm C-C=970mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| RCI1-197-0220 | Impact rail, L=1970mm C-C=2200mm | ● RAL 1018 |
| RCI1-201-0224 | Impact rail, L=2010mm C-C=2240mm | ● RAL 1018 |
| RCI1-207-0230 | Impact rail, L=2070mm C-C=2300mm | ● RAL 1018 |
| RCI1-211-0234 | Impact rail, L=2110mm C-C=2340mm | ● RAL 1018 |
| RCI1-217-0240 | Impact rail, L=2170mm C-C=2400mm | ● RAL 1018 |
| RCI1-227-0250 | Impact rail, L=2270mm C-C=2500mm | ● RAL 1018 |
| RCI1-277-0300 | Impact rail, L=2770mm C-C=3000mm | ● RAL 1018 |

* Please consult the assembly manual for the complete list of all articles. Scan the QR code on page 4 to download it.



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Impact

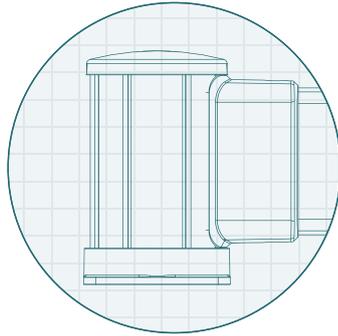
IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 4500 J | 2500 kg 6.8 km/h | 5000 kg 4.8 km/h | 350mm | 4 kN |
| 2500mm | 4200 J | 2500 kg 6.5 km/h | 5000 kg 4.6 km/h | 390mm | 6.6 kN |
| 3000mm | 3900 J | 2500 kg 6.3 km/h | 5000 kg 4.4 km/h | 420mm | 9.8 kN |
| Posts | | | | | |
| End post | 4500 J | 2500 kg 6.8 km/h | 5000 kg 4.8 km/h | NA * | 11.8 kN |
| Mid post | 4500 J | 2500 kg 6.8 km/h | 5000 kg 4.8 km/h | NA * | 13.6 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Impact Barrier?

✓ Use the Impact Barrier for ground level impact protection. It is ideal for segregating light weight vehicles or defining warehouse zones.



Modularity & simplicity

Our modular rails and bollards allow for damaged or worn parts to be replaced at a component level. If you need to replace any component - it is just a slide away.



ARTICLES FOR IMPACT BARRIER

| Art.No. | Product name | Colour |
|---------------------|----------------------------------|-------------------------|
| Posts | | |
| BCE0-035-I100 | Impact end, H=350mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-035-I100 | Impact end, H=350mm | ● RAL 1018 |
| BCM0-035-I100 | Impact mid, H=350mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-035-I100 | Impact mid, H=350mm | ● RAL 1018 |
| BCC0-035-I100 | Impact corner, H=350mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-035-I100 | Impact corner, H=350mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-064-0087 | Impact rail, L=640mm C-C=870mm | ● RAL 1018 |
| RCI1-067-0090 | Impact rail, L=670mm C-C=900mm | ● RAL 1018 |
| RCI1-074-0097 | Impact rail, L=740mm C-C=970mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| RCI1-197-0220 | Impact rail, L=1970mm C-C=2200mm | ● RAL 1018 |
| RCI1-201-0224 | Impact rail, L=2010mm C-C=2240mm | ● RAL 1018 |
| RCI1-207-0230 | Impact rail, L=2070mm C-C=2300mm | ● RAL 1018 |
| RCI1-211-0234 | Impact rail, L=2110mm C-C=2340mm | ● RAL 1018 |
| RCI1-217-0240 | Impact rail, L=2170mm C-C=2400mm | ● RAL 1018 |
| RCI1-227-0250 | Impact rail, L=2270mm C-C=2500mm | ● RAL 1018 |
| RCI1-277-0300 | Impact rail, L=2770mm C-C=3000mm | ● RAL 1018 |

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Impact High

IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 6200 J | 2500 kg 8 km/h | 5000 kg 5.6 km/h | 430mm | 14.5 kN |
| 2500mm | 5500 J | 2500 kg 7.5 km/h | 5000 kg 5.3 km/h | 470mm | 12.2 kN |
| 3000mm | 5200 J | 2500 kg 7.3 km/h | 5000 kg 5.1 km/h | 520mm | 10.4 kN |
| Posts | | | | | |
| End post | 2400 J | 2500 kg 4.9 km/h | 5000 kg 3.5 km/h | NA * | 19.2 kN |
| Mid post | 2400 J | 2500 kg 4.9 km/h | 5000 kg 3.5 km/h | NA * | 18.1 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Impact High Barrier?

✓ Use the Impact High Barrier for high level impact protection. It is ideal for segregating light weight vehicles or defining warehouse zones.



ARTICLES FOR IMPACT HIGH BARRIER

| Art.No. | Product name | Colour |
|---------------------|----------------------------------|-------------------------|
| Posts | | |
| BCE0-061-1100 | Impact H end, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-061-1100 | Impact H end, H=610mm | ● RAL 1018 |
| BCM0-061-1100 | Impact H mid, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-061-1100 | Impact H mid, H=610mm | ● RAL 1018 |
| BCC0-061-1100 | Impact H corner, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-061-1100 | Impact H corner, H=610mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-064-0087 | Impact rail, L=640mm C-C=870mm | ● RAL 1018 |
| RCI1-067-0090 | Impact rail, L=670mm C-C=900mm | ● RAL 1018 |
| RCI1-074-0097 | Impact rail, L=740mm C-C=970mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| RCI1-197-0220 | Impact rail, L=1970mm C-C=2200mm | ● RAL 1018 |
| RCI1-201-0224 | Impact rail, L=2010mm C-C=2240mm | ● RAL 1018 |
| RCI1-207-0230 | Impact rail, L=2070mm C-C=2300mm | ● RAL 1018 |
| RCI1-211-0234 | Impact rail, L=2110mm C-C=2340mm | ● RAL 1018 |
| RCI1-217-0240 | Impact rail, L=2170mm C-C=2400mm | ● RAL 1018 |
| RCI1-227-0250 | Impact rail, L=2270mm C-C=2500mm | ● RAL 1018 |
| RCI1-277-0300 | Impact rail, L=2770mm C-C=3000mm | ● RAL 1018 |

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Double Impact

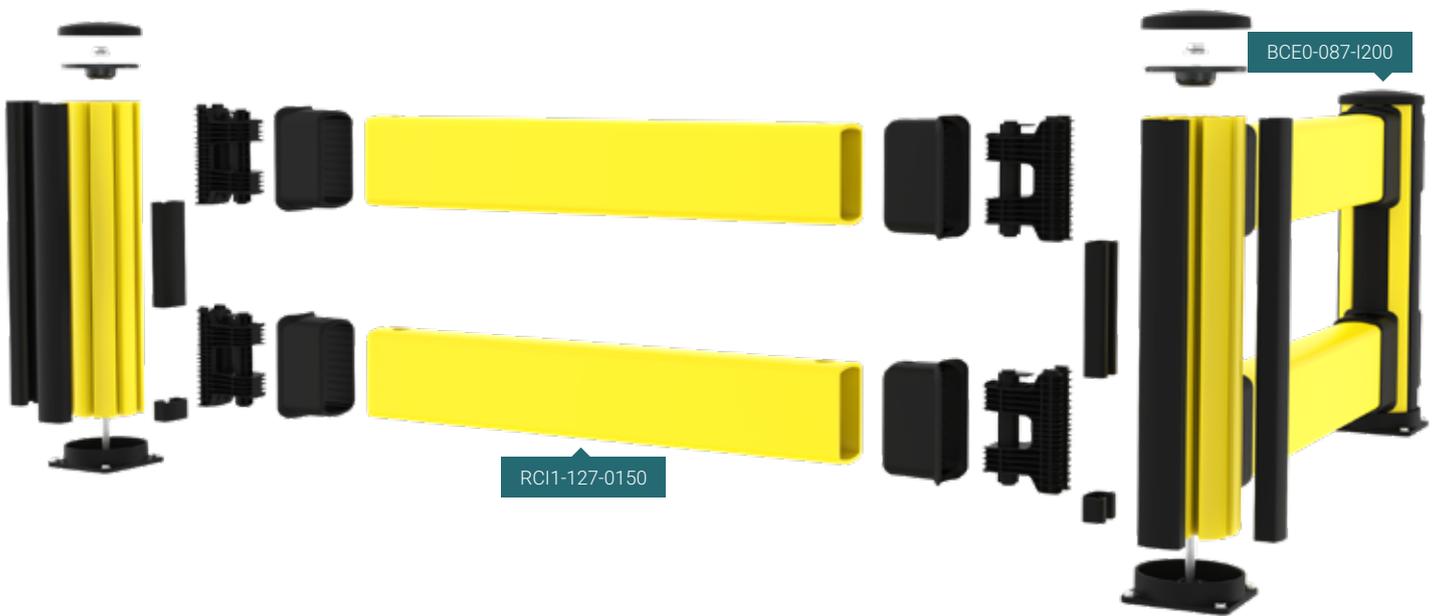
IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 7000 J | 2500 kg 8.5 km/h | 5000 kg 6 km/h | 340mm | 13.5 kN |
| 2500mm | 6500 J | 2500 kg 8.2 km/h | 5000 kg 5.8 km/h | 370mm | 10.4 kN |
| 3000mm | 6200 J | 2500 kg 8 km/h | 5000 kg 5.6 km/h | 430mm | 12.2 kN |
| Posts | | | | | |
| End post | 6100 J | 2500 kg 7.9 km/h | 5000 kg 5.6 km/h | NA * | 15.5 kN |
| Mid post | 6100 J | 2500 kg 7.9 km/h | 5000 kg 5.6 km/h | NA * | 12.4 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Double Impact Barrier?

✓ Use the Double Impact Barrier configuration to protect structures from high level, heavy duty impacts. It is one of our strongest Impact protection configurations.



ARTICLES FOR DOUBLE IMPACT BARRIER

| Art.No. | Product name | Colour |
|---------------------|----------------------------------|-------------------------|
| Posts | | |
| BCE0-087-I200 | Double Impact end, H=870mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-087-I200 | Double Impact end, H=870mm | ● RAL 1018 |
| BCM0-087-I200 | Double Impact mid, H=870mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-087-I200 | Double Impact mid, H=870mm | ● RAL 1018 |
| BCC0-087-I200 | Double Impact corner, H=870mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-087-I200 | Double Impact corner, H=870mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-064-0087 | Impact rail, L=640mm C-C=870mm | ● RAL 1018 |
| RCI1-067-0090 | Impact rail, L=670mm C-C=900mm | ● RAL 1018 |
| RCI1-074-0097 | Impact rail, L=740mm C-C=970mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| RCI1-197-0220 | Impact rail, L=1970mm C-C=2200mm | ● RAL 1018 |
| RCI1-201-0224 | Impact rail, L=2010mm C-C=2240mm | ● RAL 1018 |
| RCI1-207-0230 | Impact rail, L=2070mm C-C=2300mm | ● RAL 1018 |
| RCI1-211-0234 | Impact rail, L=2110mm C-C=2340mm | ● RAL 1018 |
| RCI1-217-0240 | Impact rail, L=2170mm C-C=2400mm | ● RAL 1018 |
| RCI1-227-0250 | Impact rail, L=2270mm C-C=2500mm | ● RAL 1018 |
| RCI1-277-0300 | Impact rail, L=2770mm C-C=3000mm | ● RAL 1018 |

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Double Impact Low

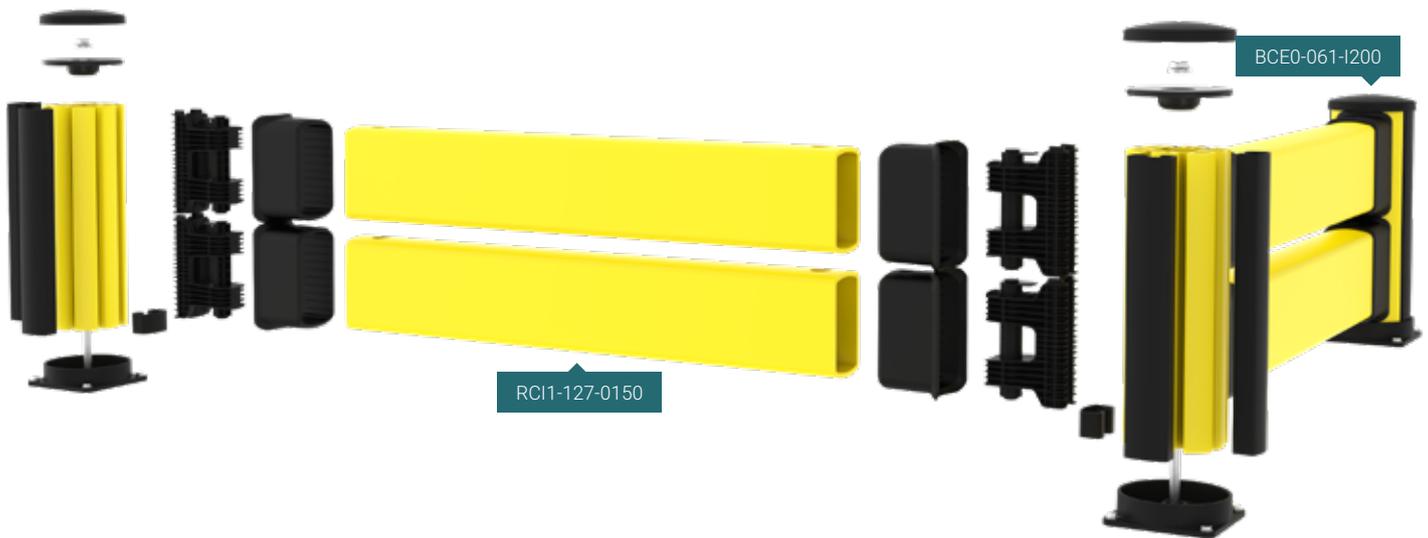
IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 7700 J | 2500 kg 8.9 km/h | 5000 kg 6.3 km/h | 340mm | 15.5 kN |
| 2500mm | 7000 J | 2500 kg 8.5 km/h | 5000 kg 6 km/h | 390mm | 10.7 kN |
| 3000mm | 6700 J | 2500 kg 8.3 km/h | 5000 kg 5.8 km/h | 440mm | 8.6 kN |
| Posts | | | | | |
| End post | 5800 J | 2500 kg 7.7 km/h | 5000 kg 5.4 km/h | NA * | 15.3 kN |
| Mid post | 5800 J | 2500 kg 7.7 km/h | 5000 kg 5.4 km/h | NA * | 15.5 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Double Impact Low Barrier?

✓ Use the Double Impact Low Barrier configuration to protect structures from ground level, heavy duty impacts. It is one of our strongest Impact protection configurations. It is ideal for protecting pallet racking.



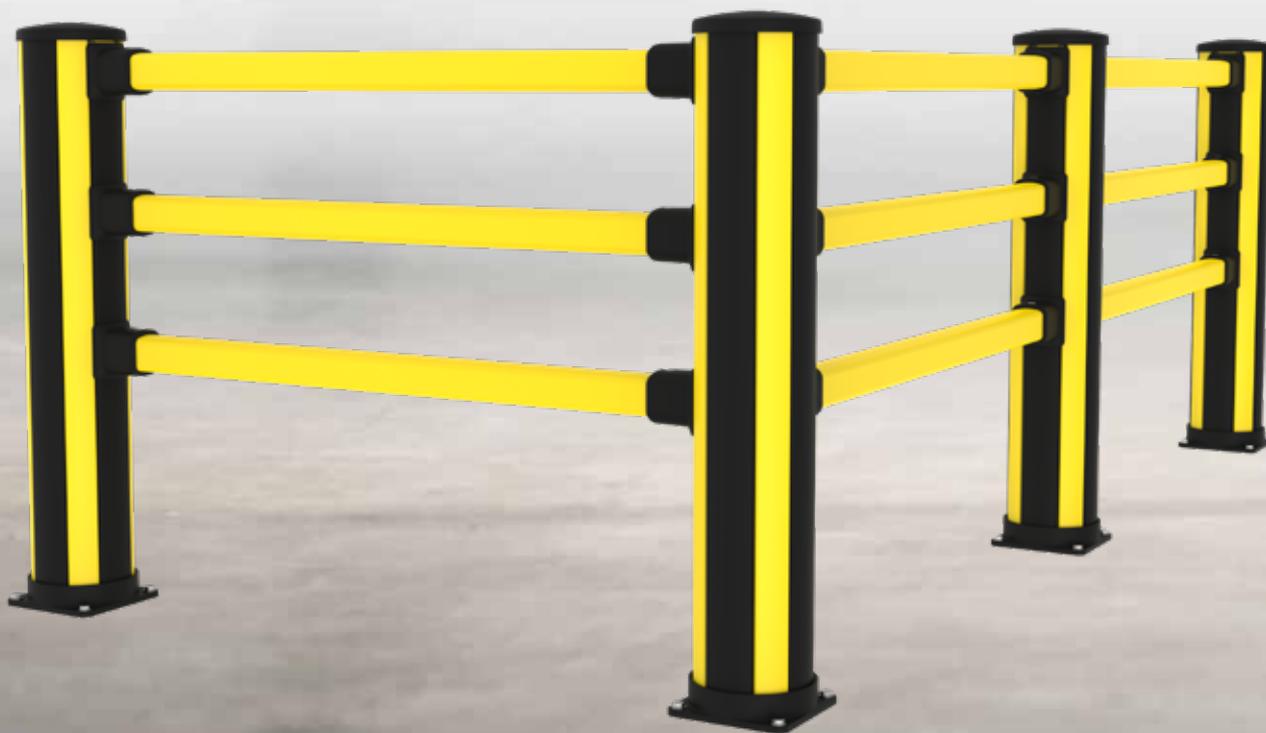
ARTICLES FOR DOUBLE IMPACT LOW BARRIER

| Art.No. | Product name | Colour |
|---------------------|----------------------------------|-------------------------|
| Posts | | |
| BCE0-061-I200 | Double Impact L end, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-061-I200 | Double Impact L end, H=610mm | ● RAL 1018 |
| BCM0-061-I200 | Double Impact L mid, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-061-I200 | Double Impact L mid, H=610mm | ● RAL 1018 |
| BCC0-061-I200 | Double Impact L corner, H=610mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-061-I200 | Double Impact L corner, H=610mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-064-0087 | Impact rail, L=640mm C-C=870mm | ● RAL 1018 |
| RCI1-067-0090 | Impact rail, L=670mm C-C=900mm | ● RAL 1018 |
| RCI1-074-0097 | Impact rail, L=740mm C-C=970mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| RCI1-197-0220 | Impact rail, L=1970mm C-C=2200mm | ● RAL 1018 |
| RCI1-201-0224 | Impact rail, L=2010mm C-C=2240mm | ● RAL 1018 |
| RCI1-207-0230 | Impact rail, L=2070mm C-C=2300mm | ● RAL 1018 |
| RCI1-211-0234 | Impact rail, L=2110mm C-C=2340mm | ● RAL 1018 |
| RCI1-217-0240 | Impact rail, L=2170mm C-C=2400mm | ● RAL 1018 |
| RCI1-227-0250 | Impact rail, L=2270mm C-C=2500mm | ● RAL 1018 |
| RCI1-277-0300 | Impact rail, L=2770mm C-C=3000mm | ● RAL 1018 |

* Please consult the assembly manual for the complete list of all articles. Scan the QR code on page 4 to download it.



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Pedestrian

IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 1500mm | 4000 J | 2500 kg 6.4 km/h | 5000 kg 4.5 km/h | 360mm | 14.3 kN |
| 2000mm | 5000 J | 2500 kg 7.2 km/h | 5000 kg 5 km/h | 490mm | 18.7 kN |
| Posts | | | | | |
| End post | 1900 J | 2500 kg 4.4 km/h | 5000 kg 3.1 km/h | NA * | 10 kN |
| Mid post | 1900 J | 2500 kg 4.4 km/h | 5000 kg 3.1 km/h | NA * | 8.4 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Pedestrian Barrier?

✓ Use the Pedestrian Barrier configuration to define pedestrian routes and protect from light duty impacts.



Pedestrian Gate

Universally handed, self closing and width adjustable from 690mm to 1210mm.

| ARTICLES FOR PEDESTRIAN BARRIER | | |
|---------------------------------|--|-------------------------|
| Art.No. | Product name | Colour |
| Posts | | |
| BCE0-116-00P3 | Pedestrian end, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-116-00P3 | Pedestrian end, H=1160mm | ● RAL 1018 |
| BCM0-116-00P3 | Pedestrian mid, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-116-00P3 | Pedestrian mid, H=1160mm | ● RAL 1018 |
| BCC0-116-00P3 | Pedestrian corner, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-116-00P3 | Pedestrian corner, H=1160mm | ● RAL 1018 |
| Hand rails | | |
| RCP1-027-0050 | Hand rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCP1-047-0070 | Hand rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCP1-077-0100 | Hand rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCP1-127-0150 | Hand rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCP1-177-0200 | Hand rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| Gate | | |
| GCP3-069-0121 | Pedestrian gate, 690-1210mm C-C 980-1500mm | ● RAL 9011 |

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Pedestrian + Impact

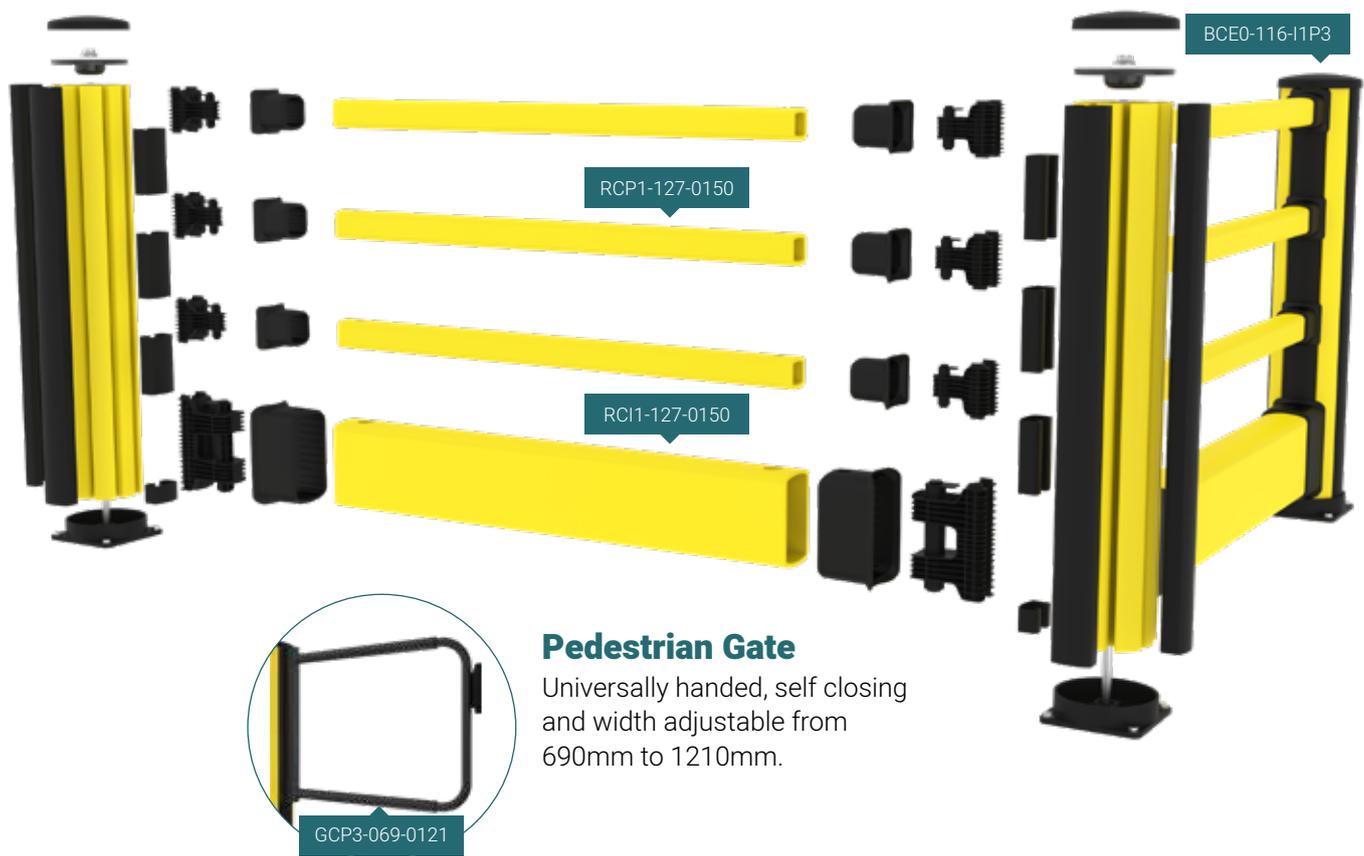
IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 6700 J | 2500 kg 8.3 km/h | 5000 kg 5.8 km/h | 370mm | 13.5 kN |
| Posts | | | | | |
| End post | 6000 J | 2500 kg 7.8 km/h | 5000 kg 5.5 km/h | NA * | 14.7 kN |
| Mid post | 6000 J | 2500 kg 7.8 km/h | 5000 kg 5.5 km/h | NA * | 11.9 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Pedestrian + Impact Barrier?

✓ Use the Pedestrian + Impact Barrier configuration to protect walkways from medium duty vehicles where there is an increased risk of ground level impacts.



Pedestrian Gate

Universally handed, self closing and width adjustable from 690mm to 1210mm.

| ARTICLES FOR PEDESTRIAN + IMPACT BARRIER | | |
|--|--|-------------------------|
| Art.No. | Product name | Colour |
| Posts | | |
| BCE0-116-I1P3 | Pedestrian + Impact end, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-116-I1P3 | Pedestrian + Impact end, H=1160mm | ● RAL 1018 |
| BCM0-116-I1P3 | Pedestrian + Impact mid, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-116-I1P3 | Pedestrian + Impact mid, H=1160mm | ● RAL 1018 |
| BCC0-116-I1P3 | Pedestrian + Impact corner, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-116-I1P3 | Pedestrian + Impact corner, H=1160mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| Hand rails | | |
| RCP1-027-0050 | Hand rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCP1-047-0070 | Hand rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCP1-077-0100 | Hand rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCP1-127-0150 | Hand rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCP1-177-0200 | Hand rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| Gate | | |
| GCP3-069-0121 | Pedestrian gate, 690-1210mm C-C 980-1500mm | ● RAL 9011 |

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Pedestrian + Impact High

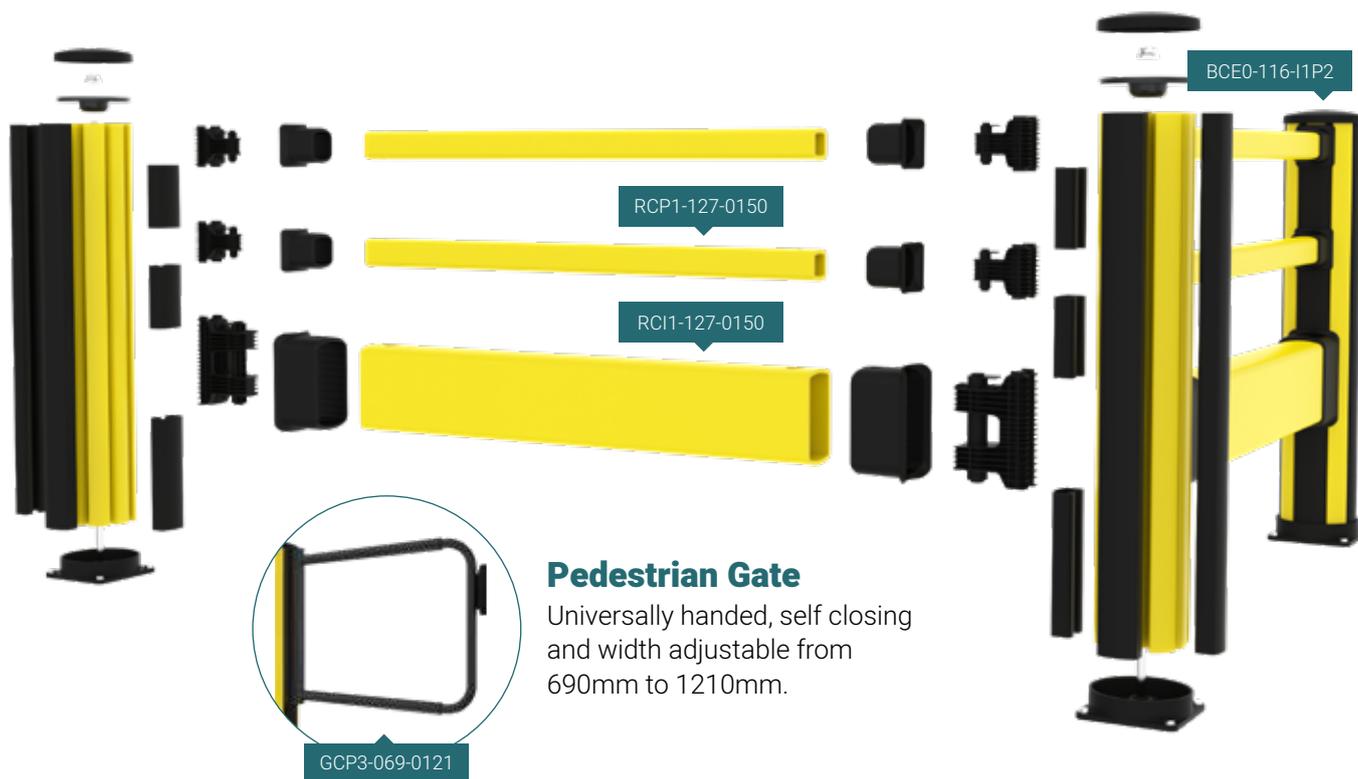
IMPACT TEST RESULTS

| Area of impact | Load | Equivalent to | | 90° Deflection | Force to fixings |
|---------------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Centre of barrier C-C as below | | | | | |
| 2000mm | 8000 J | 2500 kg 9.1 km/h | 5000 kg 6.4 km/h | 450mm | 17 kN |
| Posts | | | | | |
| End post | 1850 J | 2500 kg 4.3 km/h | 5000 kg 3 km/h | NA * | 11.6 kN |
| Mid post | 2450 J | 2500 kg 5 km/h | 5000 kg 3.5 km/h | NA * | 12.7kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

When should you use the Pedestrian + Impact High Barrier?

✓ Use the Pedestrian + Impact High Barrier configuration to protect walkways from medium duty vehicles where there is a reduced risk of ground level impacts.



Pedestrian Gate

Universally handed, self closing and width adjustable from 690mm to 1210mm.

| ARTICLES FOR PEDESTRIAN + IMPACT HIGH BARRIER | | |
|---|--|-------------------------|
| Art.No. | Product name | Colour |
| Posts | | |
| BCE0-116-1P2 | Pedestrian + Impact H end, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCE1-116-1P2 | Pedestrian + Impact H end, H=1160mm | ● RAL 1018 |
| BCM0-116-1P2 | Pedestrian + Impact H mid, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCM1-116-1P2 | Pedestrian + Impact H mid, H=1160mm | ● RAL 1018 |
| BCC0-116-1P2 | Pedestrian + Impact H corner, H=1160mm | ● RAL 1018 & ● RAL 9011 |
| BCC1-116-1P2 | Pedestrian + Impact H corner, H=1160mm | ● RAL 1018 |
| Impact rails | | |
| RCI1-027-0050 | Impact rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCI1-047-0070 | Impact rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCI1-077-0100 | Impact rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCI1-127-0150 | Impact rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCI1-177-0200 | Impact rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| Hand rails | | |
| RCP1-027-0050 | Hand rail, L=270mm C-C=500mm | ● RAL 1018 |
| RCP1-047-0070 | Hand rail, L=470mm C-C=700mm | ● RAL 1018 |
| RCP1-077-0100 | Hand rail, L=770mm C-C=1000mm | ● RAL 1018 |
| RCP1-127-0150 | Hand rail, L=1270mm C-C=1500mm | ● RAL 1018 |
| RCP1-177-0200 | Hand rail, L=1770mm C-C=2000mm | ● RAL 1018 |
| Gate | | |
| GCP3-069-0121 | Pedestrian gate, 690-1210mm C-C 980-1500mm | ● RAL 9011 |

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Column Guard

IMPACT TEST RESULTS

| Column size | Load | Equivalent to | | 90° Deflection |
|-------------------|--------|---------------------|---------------------|----------------|
| Truck Fork | | | | |
| 375mm x 375mm | 1400 J | 2500 kg 3.8 km/h | 5000 kg 2.6 km/h | 160mm |
| Truck Rear | | | | |
| 375mm x 375mm | 1700 J | 2500 kg 4.1 km/h | 5000 kg 2.9 km/h | 110mm |

When should you use the Column Guard?

✓ You should use the Column Guard when you need to protect the columns in your facility from impact damage. The unique design features specially formed air channels that effectively dissipate impact forces.

One Column Guard for all vertical structures

The **interlocking sections** are modular which makes the Column Guard easy to install and guarantees a tight fit to all sides of the column to save space.



Finish off the installation with **adjustable straps** to keep the guard secure.

ARTICLES FOR COLUMN GUARD

| Art.No. | Product name | Colour |
|---------------------|---------------------------------|------------|
| Column Guard | | |
| CCP1-015-0038 | Column guard, 150-375mm H=900mm | ● RAL 1018 |

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