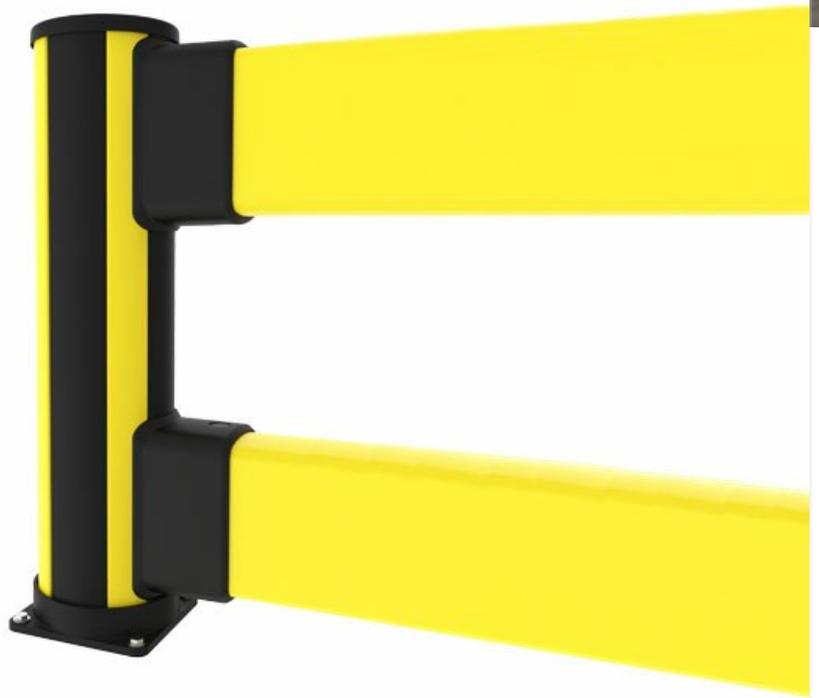


Double impact

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

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.



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.

| Impact test results | | | | | |
|----------------------------------|--------|---------------------|---------------------|----------------|------------------|
| Area of impact | Load | Equivalent of | | 90° Deflection | Force to fixings |
| Centre of barrier C - C as below | | | | | |
| 2000mm | 7000 J | 2500 kg 8.5 km/h | 5000 kg 5.6 km/h | 430mm | 14.5 kN |
| 2500mm | 6500 J | 2500 kg 8.2 km/h | 5000 kg 5.3 km/h | 470mm | 12.2 kN |
| 3000mm | 6200 J | 2500 kg 8 km/h | 5000 kg 5.1 km/h | 520mm | 10.4 kN |
| Posts | | | | | |
| End post | 6100 J | 2500 kg 4.9 km/h | 5000 kg 3.5 km/h | NA* | 19.2 kN |
| Mid post | 6100 J | 2500 kg 4.9 km/h | 5000 g 3.5 km/h | NA* | 18.1 kN |

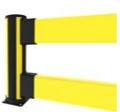
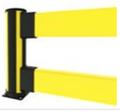
* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection will be reduced.

Models

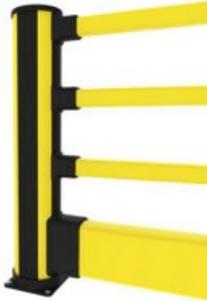
Posts 6 articles

| ARTICLES / DESCRIPTION | HEIGHT (MM) | LENGTH (MM) | CC (MM) | COLOR |
|--|-------------|-------------|---------|---|
|  BCE0-087-I200 Double Impact end | 870 | | | Zinc Yellow (RAL 1018) Graphite Black (RAL 9011) |
|  BCE1-087-I200 Double Impact end | 870 | | | Zinc Yellow (RAL 1018) |
|  BCM0-087-I200 Double Impact mid | 870 | | | Zinc Yellow (RAL 1018) Graphite Black (RAL 9011) |
|  BCM1-087-I200 Double Impact mid | 870 | | | Zinc Yellow (RAL 1018) |
|  BCC0-087-I200 Double Impact corner | 870 | | | Zinc Yellow (RAL 1018) Graphite Black (RAL 9011) |
|  BCC1-087-I200 Double Impact corner | 870 | | | Zinc Yellow (RAL 1018) |

Impact rails 9 articles

| ARTICLES / DESCRIPTION | HEIGHT (MM) | LENGTH (MM) | CC (MM) | COLOR |
|---|-------------|-------------|---------|------------------------|
|  RCI1-027-0050 Impact rail | | 270 | 500 | Zinc Yellow (RAL 1018) |
|  RCI1-047-0070 Impact rail | | 470 | 700 | Zinc Yellow (RAL 1018) |
|  RCI1-077-0100 Impact rail | | 770 | 1000 | |
|  RCI1-127-0150 Impact rail | | 1270 | 1500 | Zinc Yellow (RAL 1018) |
|  RCI1-227-0250 Impact rail | | 2270 | 2500 | Zinc Yellow (RAL 1018) |
|  RCI1-277-0300 Impact rail | | 2770 | 3000 | Zinc Yellow (RAL 1018) |
|  RCI1-177-0200 | | 1770 | 2000 | Zinc Yellow (RAL 1018) |
|  RCI1-067-0090 Impact rail | | 670 | 900 | Zinc Yellow (RAL 1018) |
|  RCI1-197-0220 Impact rail | | 1970 | 2200 | Zinc Yellow (RAL 1018) |

Related products



CLASSIC PEDESTRIAN

Pedestrian with impact

Use the X-Protect Pedestrian + Impact barrier configuration to protect walkways from medium duty vehicles where there is an increased risk of ground level impacts. It is also possible to combine wi...

[19 articles](#)



X-PROTECT IMPACT PROTECTION

Double impact low

Use the X-Protect Double Impact Low Barrier configuration to protect structures from ground level, heavy duty impacts. It is one of our strongest Impact protection configurations and also idea...

[15 articles](#)

X-Protect components

These are the building blocks of our modular Impact Protection range.

BARRIERS & RAILS

Hand Rails



Width x Height:

68 x 72 mm | 2 11/16" x 2 27/32"

Length:

270 - 1770 mm | 10 5/8" - 69 11/16"

Impact Barriers



Width x Height:

116 x 220 mm | 4 9/16" x 8 21/32"

Length:

270 - 2770 mm | 10 5/8" - 109 1/16"

POSTS & BOLLARDS



Classic

4 connection sides

Width:

200 mm

7 7/8"

Height:

350 -

1160 mm

13 13/16" -

45 11/16"



Essential

2 connection sides

Width:

132 mm

5 3/16"

Height:

620 -

1170 mm

24 7/16" -

46 1/16"



X-Protect Standard Configurations

+ the highest impact energy (J) they are capable of withstanding*

* The highest force depends on the C-C. More information is available upon request.



1 5250 J



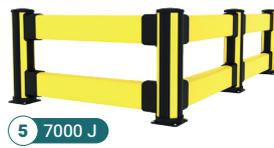
2 4500 J



3 6200 J



4 7700 J



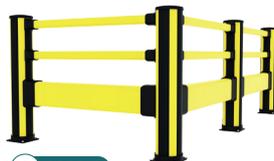
5 7000 J



6 5000 J



7 6700 J



8 8000 J



9 8300 J



10 0 J



11 1800 J



12 3000 J



13 1500 J



14 1700 J



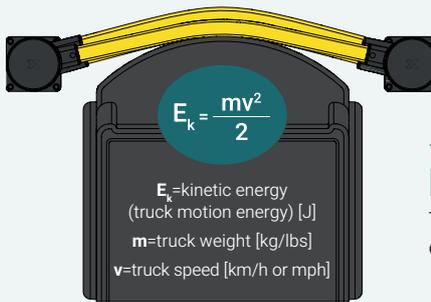
15 2250 J



16 3100 J

1. Bollards
2. Impact
3. Impact High
4. Double Impact Low
5. Double Impact High
6. Pedestrian
7. Pedestrian + Impact
8. Pedestrian + Impact High
9. Pedestrian + Double Impact
10. Pedestrian Gate
11. Column Guard
12. Floor Barrier*
13. Essential Bollards
14. Essential Pedestrian 2 rail
15. Essential Pedestrian
16. Essential Pedestrian + Impact High

* The Floor Barrier can be used in combination with configurations: 3, 6, 8 & 9



Impact testing

This is how we calculate the energy from a vehicle impact.



| Speed | Load |
|-------------------|---------|
| 6 km/h 3.7 mph | 5020 J |
| 8 km/h 5 mph | 8880 J |
| 12 km/h 7.5 mph | 19960 J |



| Speed | Load |
|-------------------|---------|
| 6 km/h 3.7 mph | 3770 J |
| 8 km/h 5 mph | 6660 J |
| 12 km/h 7.5 mph | 14970 J |



| Speed | Load |
|-------------------|---------|
| 6 km/h 3.7 mph | 2930 J |
| 8 km/h 5 mph | 5180 J |
| 12 km/h 7.5 mph | 11670 J |

Component Colours

● RAL 1018 ● RAL 9011

Operating temperature

-10°C → 40°C

