



Est 1990

Impact

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

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 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	4kN
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 4.4 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.

Models

Posts 6 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 BCM1-035-I100 Impact mid	350			Zinc Yellow (RAL 1018)
 BCM0-035-I100 Impact mid	350			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 BCE1-035-I100 Impact end	350			Zinc Yellow (RAL 1018)
 BCE0-035-I100 Impact end	350			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 BCC1-035-I100 Impact corner	350			Zinc Yellow (RAL 1018)
 BCC0-035-I100 Impact corner	350			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)

Impact rails 9 articles

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



IMPACT BARRIERS

Impact high

Use the X-Protect Impact High Barrier for high level impact protection. It is ideal for segregating light weight vehicles or defining warehouse zones. Our modular rails and bollards allow for damag...

[15 articles](#)



IMPACT BARRIERS

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 b...

[15 articles](#)



IMPACT BARRIERS

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](#)



CLASSIC PEDESTRIAN BARRIER

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 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

Height:
350 -
1160 mm
13 13/16" -
45 11/16"

Width:
200 mm
7 7/8"



Essential

2 connection sides

Height:
620 -
1170 mm
24 7/16" -
46 1/16"

Width:
132 mm
5 3/16"

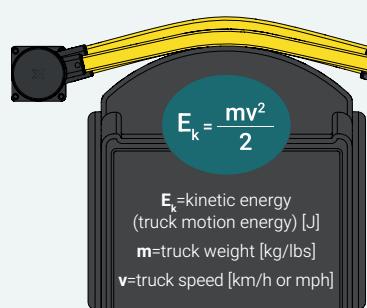
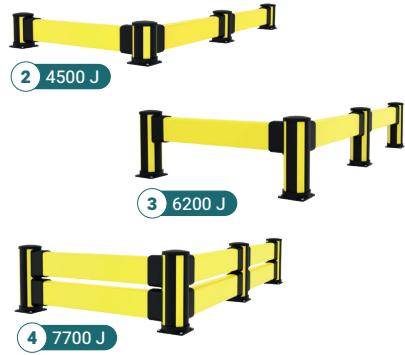
Height:
620 -
1170 mm
24 7/16" -
46 1/16"

Width:
132 mm
5 3/16"

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.



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

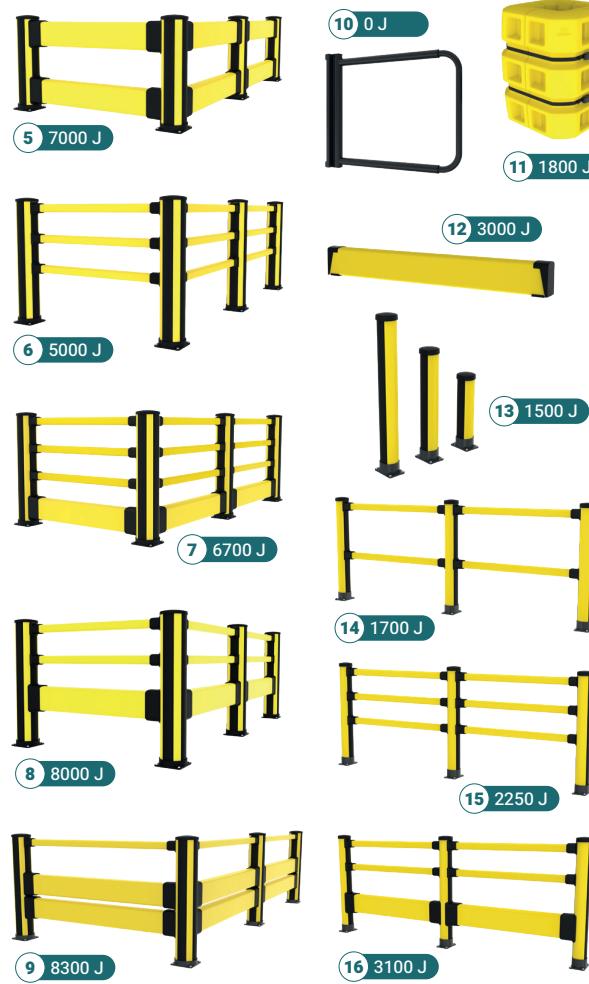
Yellow: RAL 1018 Black: RAL 9011

Operating temperature

-10°C → 40°C



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