

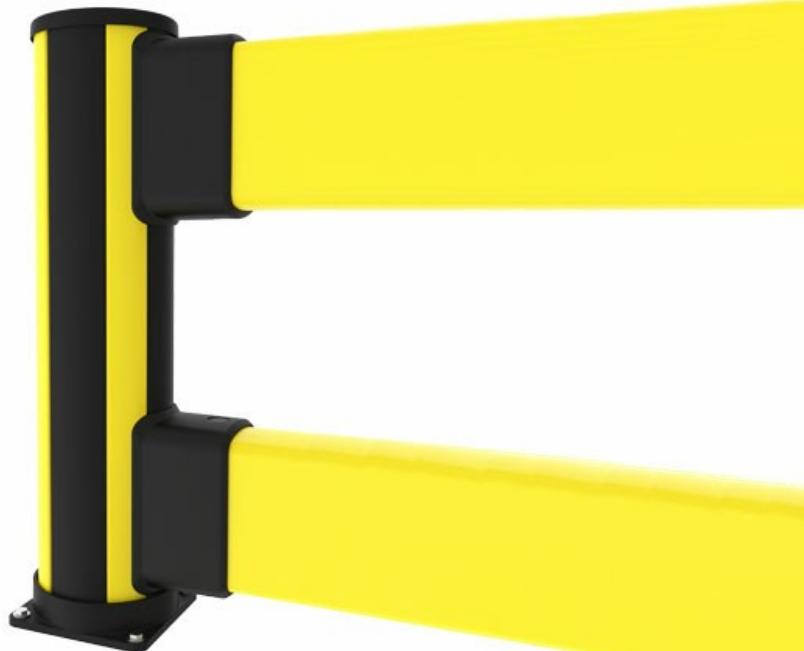


Est 1990

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 Graphite Black
 BCE1-087-I200 Double Impact end	870			Zinc Yellow
 BCM0-087-I200 Double Impact mid	870			Zinc Yellow Graphite Black
 BCM1-087-I200 Double Impact mid	870			Zinc Yellow
 BCC0-087-I200 Double Impact corner	870			Zinc Yellow Graphite Black
 BCC1-087-I200 Double Impact corner	870			Zinc Yellow

Impact rails 9 articles

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

Related products

IMPACT BARRIERS

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...

[15 articles](#)

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 damaged...

[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

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"

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

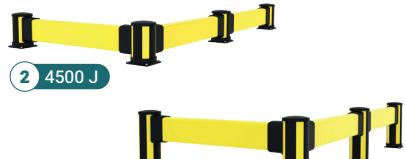
X-Protect Standard Configurations

+ 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



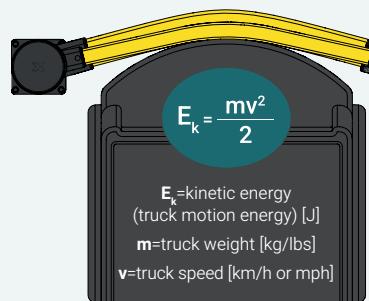
2 4500 J



3 6200 J



4 7700 J



Impact testing

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



Loaded weight
3600 kg /
7930 lbs



Loaded weight
2700 kg /
5940 lbs



Loaded weight
2100 kg /
4620 lbs

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

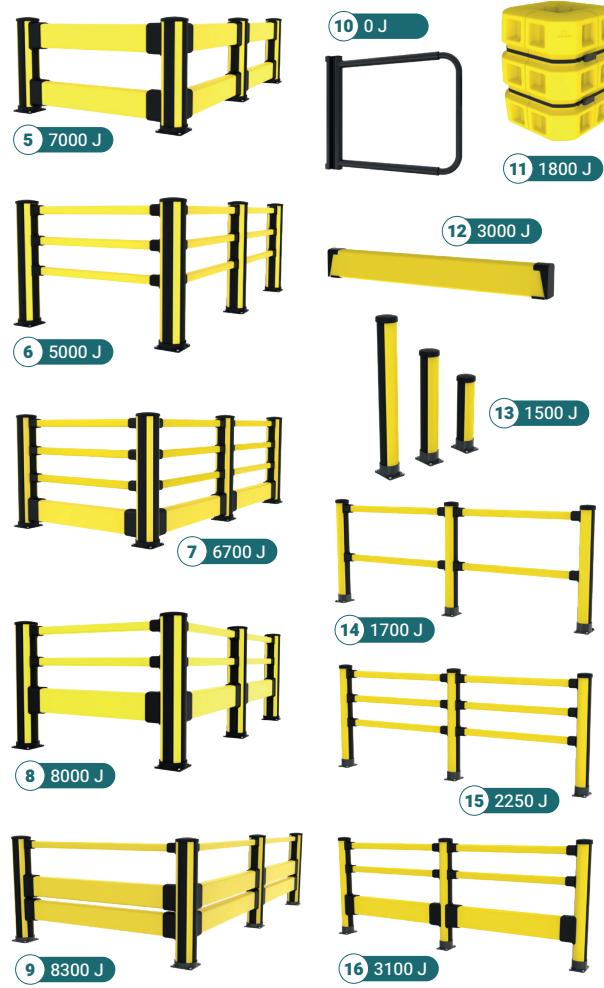
Yellow: RAL 1018 Black: RAL 9011

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