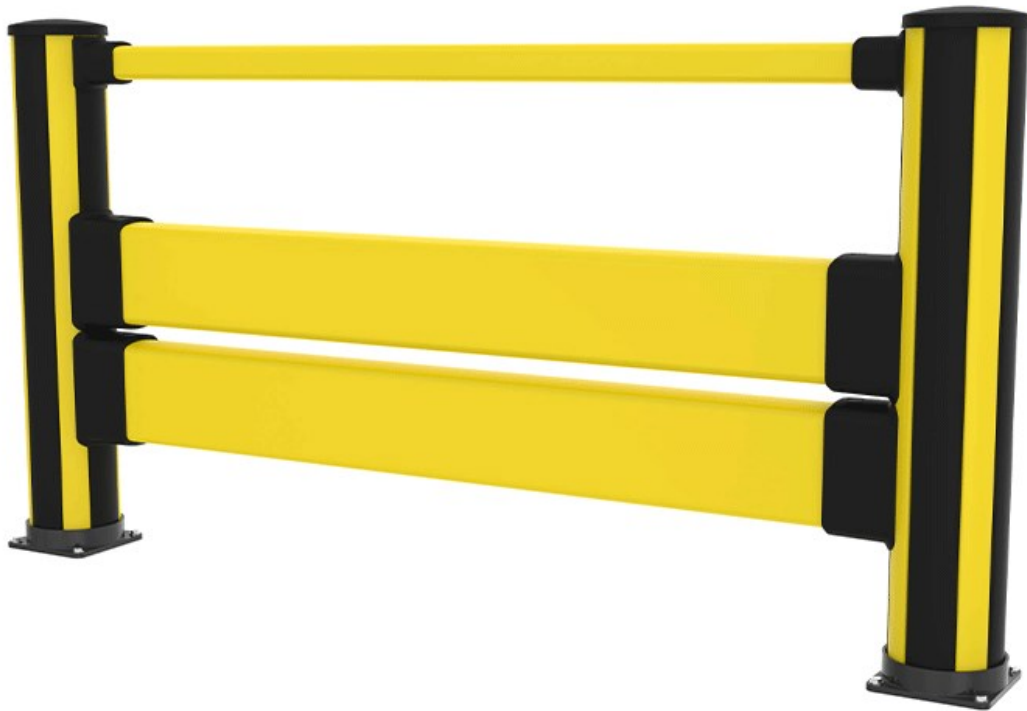


Pedestrian Barrier with Double Impact

Protect walkways and infrastructure with Pedestrian Barrier with Double Impact from medium duty, high level impacts where there is a reduced risk of ground level impacts. The built-in damping and modular components enable quick reconfiguration, ensuring optimal safety for changing environments.



When should you use the Pedestrian with Double Impact configuration?

The Pedestrian with Double Impact configuration protects walkways and infrastructure from medium-duty, high-level impacts where ground-level risk is lower. It can be easily integrated with a self-closing pedestrian gate, equipped with a universal handle and adjustable width (690–1210 mm).

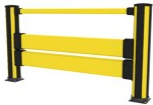
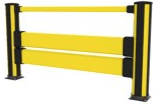
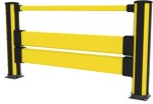
This impact protection system offers a unique approach to safety barriers. It offers modularity, relying on few system components and incorporating built-in damping to create a barrier solution that adapts to your workplace. The system supports rapid transformation, repair, or replacement of existing barriers, and bespoke configurations have no limits.

Impact test results					
Area of impact	Load	Equivalent to		90° deflection	Force to fixings
Centre of barrier C - C as below					
2000mm	8300 J	2500 kg 9.2 km/h	5000 kg 6.5 km/h	372 mm	5.6 kN
Posts					
End post	2400 J	2500 kg 5.0 km/h	5000 kg 3.5 km/h	NA *	6.3 kN
Mid post	2550 J	2500 kg 5.0 km/h	5000 kg 3.5 km/h	NA *	8.7 kN

*Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for production 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 3 articles

ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 BCE0-116-I2P1 End post		1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 BCM0-116-I2P1 Mid post		1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 BCC0-116-I2P1 Corner post		1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)

Impact rails 5 articles

ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 RCI1-027-0050			270	500	Zinc Yellow (RAL 1018)
 RCI1-047-0070			470	700	Zinc Yellow (RAL 1018)
 RCI1-077-0100			770	1000	Zinc Yellow (RAL 1018)



RCI1-127-0150

1270

1500

Zinc Yellow (RAL 1018)



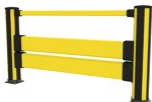
RCI1-177-0200

1770

2000

Zinc Yellow (RAL 1018)

Hand rails 5 articles

ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 RCP1-027-0050			270	500	Zinc Yellow (RAL 1018)
 RCP1-047-0070			470	700	Zinc Yellow (RAL 1018)
 RCP1-077-0100			770	1000	Zinc Yellow (RAL 1018)
 RCP1-127-0150			1270	1500	Zinc Yellow (RAL 1018)
 RCP1-177-0200			1770	2000	Zinc Yellow (RAL 1018)

Gate 1 articles

ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 GCP3-069-0121 Pedestrian gate 690-1210mm					Graphite Black (RAL 9011)

Related products



CLASSIC PEDESTRIAN

Pedestrian Barrier

Use the X-Protect Pedestrian Barrier configuration to define pedestrian routes and protect from light duty impacts. It is also possible to combine with a pedestrian gate. The pedestrian gate is sel...

[9 articles](#)



CLASSIC PEDESTRIAN

Pedestrian Barrier with Impact High

Use the X-Protect Pedestrian Barrier with Impact High configuration to protect walkways from medium duty vehicles where there is a reduced risk of ground level impacts. It is also possible to combi...

[16 articles](#)



X-PROTECT PEDESTRIAN

Pedestrian gate

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

[1 articles](#)

X-Protect components

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

BARRIERS & RAILS

Pedestrian 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 -

Width:

200 mm

7 7/8"

1160 mm

13 13/16" -

45 11/16"



Essential

2 connection sides

Height:

620 -

Width:

132 mm

5 3/16"

1170 mm

24 7/16" -

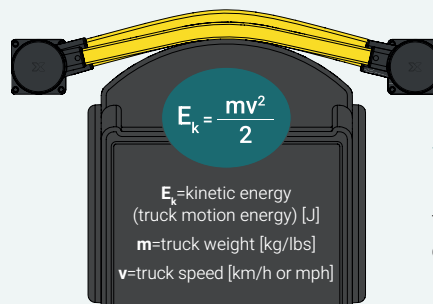
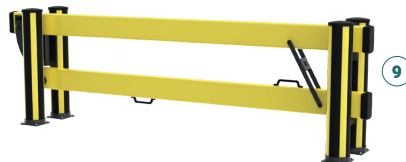
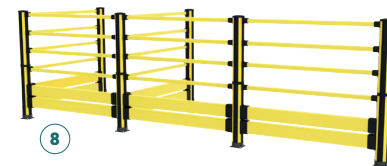
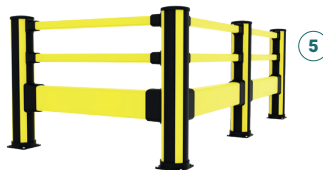
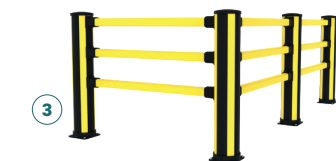
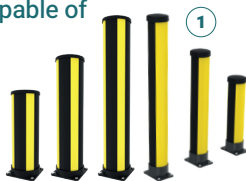
46 1/16"



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.



$$E_k = \frac{mv^2}{2}$$

E_k = kinetic energy (truck motion energy) [J]

m = truck weight [kg/lbs]

v = truck speed [km/h or mph]

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

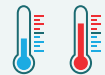
Speed	Load
6 km/h 3.7 mph	2930 J
8 km/h 5 mph	5180 J
12 km/h 7.5 mph	11670 J

Component Colours

● RAL 1018 ● RAL 9011

Operating temperature

-10°C → 40°C



1. Bollards

- Classic | 5220 J
- Essential | 1500 J

2. Impact Barriers

- Impact | 4500 J
- Impact High | 6200 J
- Double Impact Low | 7700 J
- Double Impact High | 7000 J

3. Pedestrian Rails

- Pedestrian | 5000 J
- Essential Pedestrian | 2250 J
- Essential Pedestrian 2 rail | 1700 J
- Essential Pedestrian | 2250 J

4. Floor Barrier | 2250 J

- Can be used both with Impact & Pedestrian configurations or as stand-alone protection.

5. Pedestrian Rails + Impact Barriers

- Pedestrian + Impact | 6700 J
- Pedestrian + Impact High | 8000 J
- Pedestrian + Double Impact | 8300 J
- Essential Pedestrian + Impact High | 3100 J

6. Pedestrian Gate | 0 J

7. Column Guard | 1800 J

8. Topple Barriers

- Pedestrian | 5250 J
- Impact | 6200 J

9. Dock Gate | 10200 J

10. Height Restrictors

- Goal Post | 4200 J
- Height Guard

11. Upright Protector