Pedestrian with Double Impact

Protect walkways and infrastructure with Pedestrian 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).

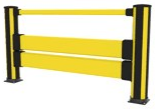
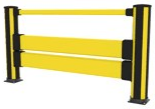
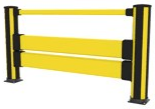
This impact protection system offers a unique approach to safety barriers. It offers modularity, relying on few system components and incorporating built-in damping to create a barrier solution that adapts to your workplace. The system supports rapid transformation, repair, or replacement of existing 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 an dis 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

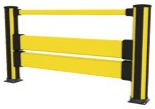
ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 **BCE0-116-I2P1** End post		1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 **BCM0-116-I2P1** Mid post		1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 **BCC0-116-I2P1** Corner post		1160			Zinc Yellow (RAL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

Impact rails 5 articles

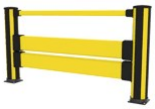
ARTICLES / DESCRIPTION	MIN WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
RCI1-027-0050			270	500	Zinc Yellow (RAL 1018)
RCI1-047-0070			470	700	Zinc Yellow (RAL 1018)
RCI1-077-0100			770	1000	Zinc Yellow (RAL 1018)

	RCI1-127-0150		1270	1500	Zinc Yellow (RAL 1018)
	RCI1-177-0200		1770	2000	Zinc Yellow (RAL 1018)

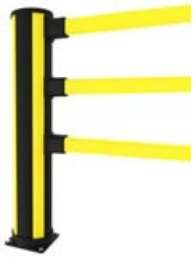
Hand rails 5 articles

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)

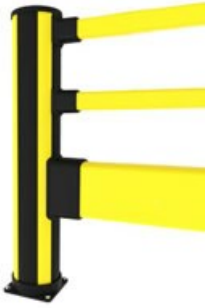
Related products



Pedestrian

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



Pedestrian with impact high

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

16 articles

X-PROTECT PEDESTRIAN

Pedestrian gate

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

1 articles

X-PROTECT

Technical Information

X-Protect components

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

BARRIERS & RAILS

Pedestrian Rails

Width x Height:
68 × 72 mm | 2 11/16" × 2 27/32"
Length:
270 - 1770 mm | 10 5/8" - 69 11/16"

Impact Barriers

Width x Height:
116 × 220 mm | 4 9/16" x 8 21/32"
Length:
270 - 2770 mm | 10 5/8" - 109 1/16"

POSTS & BOLLARDS

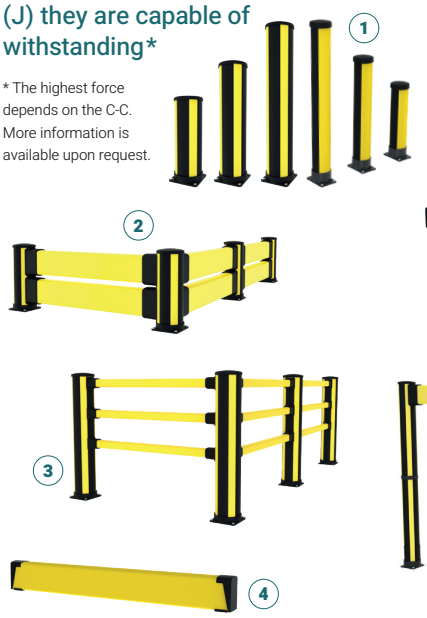
Classic
4 connection sides
Width:
200 mm
7 7/8"
Height:
350 – 1160 mm
13 13/16" – 45 11/16"

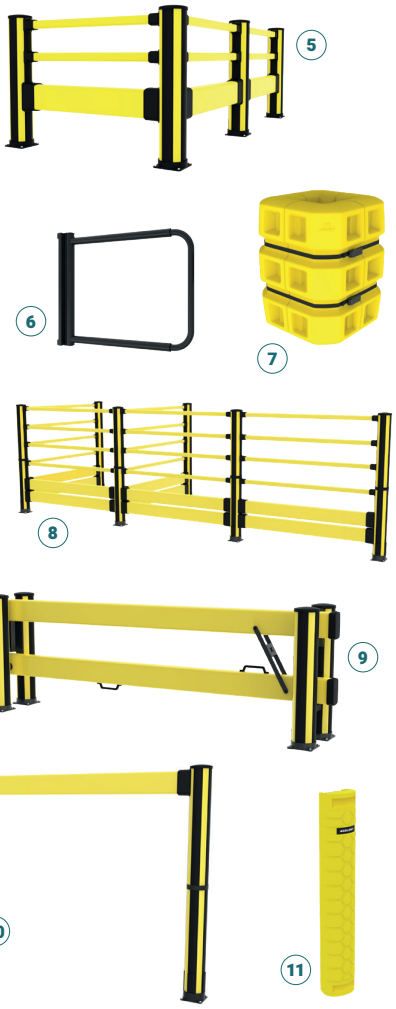
Essential
2 connection sides
Width:
132 mm
5 3/16"
Height:
620 – 1170 mm
24 7/16" – 46 1/16"

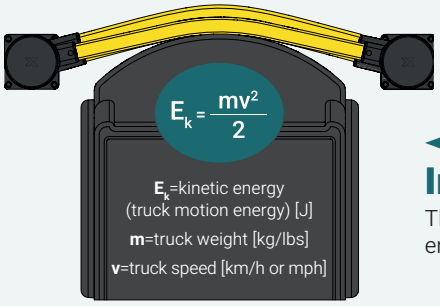
X-Protect Standard Configurations

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

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





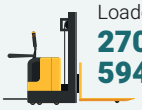


Impact testing

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

Loaded weight
3600 kg / 7930 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



Loaded weight
2700 kg / 5940 lbs

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

Loaded weight
2100 kg / 4620 lbs

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**