

Essential Pedestrian with three rails

The X-Protect Essential Pedestrian Barrier with Three Rails provides added impact resistance and visibility for safe, well-defined walkways. Ideal for light-duty zones, it enhances separation between people and vehicles while keeping layouts open and efficient.



The Essential Pedestrian Barrier with Three Rails provides an enhanced level of protection for areas where additional height and visibility are required. Designed for light-duty impact zones, it creates safe, well-defined walkways while maintaining an open and efficient layout.

To further improve site safety, the Floor Barrier can be integrated into this configuration. It acts as a solid base element that reinforces the lower section of the system, offering additional protection against ground-level risks such as vehicle forks, pallets and debris. This combination provides a continuous barrier line that enhances both visibility and impact resistance while maintaining smooth traffic flow between zones.

Installation is quick and efficient, with minimal fixings required and no unnecessary stress on the floor surface.




Key features

- Fast to install
- Kind to the floor
- Easy to repair




Impact test results					
Area of impact	Load	Equivalent to		90° Deflection	Force to fixings
Centre of barrier C - C as below					
1500mm	2000 J	2500kg 4.6 km/h	1500kg 5.9 km/h	334mm	4.2kN
2000mm	2250 J	2500kg 4.8 km/h	1500kg 5.9 km/h	414mm	5.1kN
Posts					
End post	1300 J	2500kg 3.7 km/h	1500kg 4.7 km/h	550mm	6.1kN
Mid post	1300 J	2500kg 3.7 km/h	1500kg 4.7 km/h	525mm	5.6kN

Models

Posts 3 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 BCC0-116-00P3 Corner post	1160		2000	Compatible with the Floor Barrier
 BEE0-117-00P3 End post	1170		2000	Compatible with the Floor Barrier
 BEM0-117-00P3 Mid post	1170		2000	Compatible with the Floor Barrier

Hand rails 5 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 RCP1-027-0050 Hand rail		270	500	
 RCP1-047-0070 Hand rail		470	700	
 RCP1-077-0100 Hand rail		770	1000	

**RCP1-127-0150**

Hand rail extrusion, C-C=1500mm, RAL 1018 yellow

1250

1500

**RCP1-177-0200**

Hand rail extrusion

1170

2000

Related products

IMPACT PROTECTION**Floor Barrier**

Designed to serve as a standalone solution, it provides safeguarding of building perimeters and vital infrastructure from the everyday risks of vehicle forks, pallets in transit, AMRs and AGVs, and...

[11 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 – 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"

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

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