

# Essential Pedestrian with Two Rails

The X-Protect Essential Pedestrian Barrier with Two Rails safely separates pedestrians from vehicles in light-duty areas. It maintains an open layout, creating clear routes and efficient flow while reducing the risk of collisions.



The Essential Pedestrian Barrier with Two Rails offers reliable separation between pedestrians and moving equipment while maintaining an open and accessible layout. Ideal for areas with lower impact risks, the system helps define safe pedestrian routes and supports efficient traffic flow across the facility.

Improve workplace safety by adding the Floor Barrier to your configuration. Designed to create a clear physical boundary between pedestrian walkways and vehicle routes, it offers effective low-level protection in areas with forklift trucks, AMRs and AGVs. By limiting ground-level contact points, it helps reduce damage from forks and pallets while improving overall traffic organisation.

Installation is straightforward, with a low fixing count that speeds up assembly and minimises disruption to floor surfaces.

## 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					
2000mm	1700 J	2500 kg 4.2 km/h	1500 kg 5.4 km/h	385mm	5.1kN
Posts					
End post	1300 J	2500 kg 4-6 km/h	1500 kg 4.7 km/h	550mm	4.9kN
Mid post	1300 J	2500 kg 4-6 km/h	1500 kg 4.7 km/h	525mm	4.7kN

## Models

### Posts 3 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 <b>BCC0-116-00P2</b> Corner post	1160		2000	Compatible with the Floor Barrier
 <b>BEE0-117-00P2</b> End post	1170		2000	Compatible with the Floor Barrier
 <b>BEM0-117-00P2</b> Mid post	1170		2000	Compatible with the Floor Barrier

### Hand rails 5 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 <b>RCP1-027-0050</b> Hand rail		270	500	
 <b>RCP1-047-0070</b> Hand rail		470	700	
 <b>RCP1-077-0100</b> Hand rail		770	1000	
 <b>RCP1-127-0150</b> Hand rail extrusion, C-C=1500mm, RAL 1018 yellow		1270	1500	



**RCP1-177-0200**  
Hand rail extrusion

1770

2000

## Related products

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### X-PROTECT

#### Standalone Floor Barrier

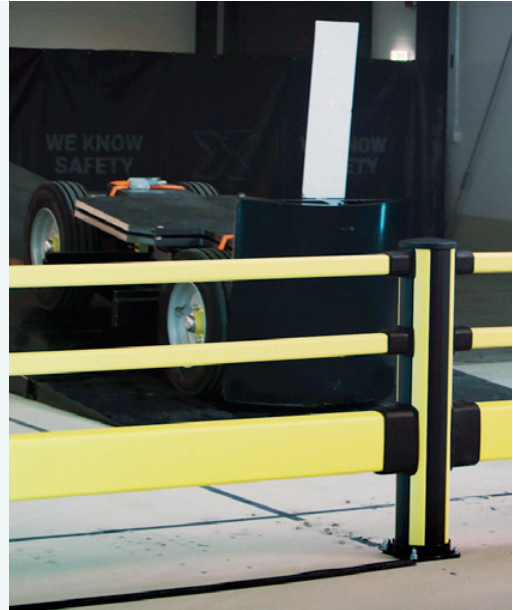


Designed to serve as a standalone solution, it improves the safeguarding of building perimeters and vital infrastructure from the everyday risks of vehicle forks, pallets in transit, AMRs and AGVs,...

[17 articles](#)

## **X-Protect is Safe**

- ✓ Our impact protection products undergo rigorous testing at our state-of-the-art testing facility.
- ✓ With decades of experience in industrial safety, we've designed our impact protection to perform effectively in real-world conditions.
- ✓ We know safety and can guide you to the best solutions tailored to your specific needs.



## **X-Protect is Modular**

- ✓ Quickly modify barrier specifications with minimal waste.
- ✓ Perform easy and cost-effective repairs at a component level.
- ✓ Quickly build strong integrated installations with few parts.



## **X-Protect is Sustainable**

- ✓ Simple end of life dis-assembly, even after an accident.
- ✓ Single material components that are easy to recycle.
- ✓ Repairable by design, damaged or worn components are easily replaced extending the barrier's life.



## 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



Height:

350 - 1160 mm

13 13/16" -

45 11/16"

Width:

200 mm

7 7/8" in

## Component Colours



RAL 1018



RAL 9011

## X-Protect Standard Configurations

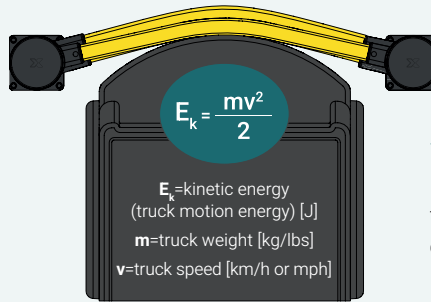
+ the highest impact energy (J) they are capable of withstanding\*

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



1 5250 J

2 4500 J



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

$E_k$  = 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

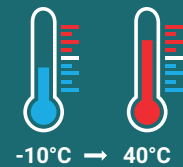
**2100 kg / 4620 lbs**

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

## Operating temperature



-10°C → 40°C

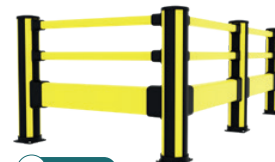
## Assembly



SCAN THE CODE TO  
DOWNLOAD OUR  
ASSEMBLY MANUALS



3 6200 J



8 8000 J



4 7700 J



9 8300 J



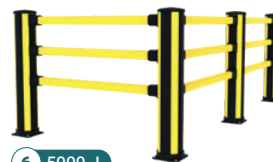
5 7000 J



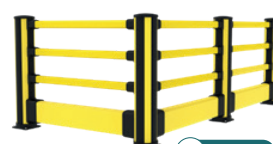
10 0 J



11 1800 J



6 5000 J



7 6700 J



12 3000 J

The Floor Barrier can be used in combination with configurations: **3, 6, 8 & 9**

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