

# Essential Pedestrian with Impact High

The X-Protect Essential Pedestrian with Impact High Barrier offers reinforced protection in busy traffic zones. Designed to handle low-level impacts, it separates pedestrians from vehicles while maintaining strong, flexible barrier performance.



The Essential Pedestrian with Impact High Barrier provides reinforced safety for walkways exposed to medium-duty vehicles and frequent ground-level impacts. Designed for combined strength and flexibility, it separates pedestrians from vehicles while absorbing impact energy at the base to minimise damage and maintain barrier integrity.

For areas with intensive material handling, the Floor Barrier adds an extra layer of protection. Positioned at ground level, it ensures a clear division between pedestrian and vehicle routes, preventing contact with vehicle forks, low pallets or stray objects. Acting as a robust foundation, it complements the higher structure by distributing impact forces efficiently and maintaining safe, predictable traffic patterns throughout the facility.

Installation is fast and straightforward, with minimal fixings and a design that protects the floor surface during both setup and maintenance.




## Key feature

- 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	3100 J	2500kg 5.7 km/h	1500kg 7.3 km/h	295mm	5.7kN
Posts					
End post	1500 J	2500kg 3.9 km/h	1500kg 5 km/h	500mm	3.2kN
Mid post	1500 J	2500kg 3.9 km/h	1500kg 5 km/h	450mm	3.3kN




## Modèles

### Posts 3 articles


ARTICLES / DESCRIPTION	HAUTEUR (MM)	LONGUEUR (MM)	CC (MM)	AUTRE
 <b>BCC0-116-I1P2-E2</b> Corner post	1160		2000	
 <b>BEE0-117-I1P2-A1</b> End post	1170		2000	Compatible with the Floor Barrier
 <b>BEM0-117-I1P2-A1</b> Mid post	1170		2000	Compatible with the Floor Barrier

### Impact rails 7 articles

ARTICLES / DESCRIPTION	HAUTEUR (MM)	LONGUEUR (MM)	CC (MM)	AUTRE
 <b>RCI1-027-0050</b> Impact rail		270	500	
 <b>RCI1-047-0070</b> Impact rail		470	700	
 <b>RCI1-077-0100</b> Impact rail		770	1000	
 <b>RCI1-127-0150</b> Impact rail		1270	1500	

	<b>RCI1-177-0200</b> Impact rail	1770	2000
	<b>RCI1-227-0250</b> Impact rail	2270	2500
	<b>RCI1-277-0300</b> Impact rail	2770	3000

## Hand rails 5 articles

ARTICLES / DESCRIPTION	HAUTEUR (MM)	LONGUEUR (MM)	CC (MM)	AUTRE
	<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	1270	1500	
	<b>RCP1-177-0200</b> Hand rail	1770	2000	

## Produits associés

### PROTECTION ANTICHOCS

#### Barrière de sol



Conçue pour servir de solution autonome, elle assure la protection du périmètre des bâtiments et des infrastructures vitales contre les risques quotidiens liés aux fourches de véhicules, aux palett...

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