

Essential Pedestrian with Impact

The X-Protect Essential Pedestrian with Impact Barrier combines pedestrian and vehicle protection in medium-duty areas. It absorbs impact energy at floor level, minimising damage and maintaining safety where people and vehicles interact.



The Essential Pedestrian with Impact Barrier is designed to safeguard walkways where pedestrians and medium-duty vehicles operate in close proximity. Engineered for combined protection, it effectively separates people from vehicles while absorbing impact energy at floor level, helping to reduce damage and enhance overall site safety.

This configuration is ideal for facilities where moderate vehicle activity occurs, such as areas with pallet trucks, tuggers or light forklifts. The impact-resistant lower section protects against low-level collisions while maintaining a clear and unobstructed view of pedestrian routes.

Installation is straightforward, with a low fixing count that makes assembly quick and minimises floor damage during setup or repairs.

Key features

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

Impact test results					
Area of impact	Load	Equivalent to		90° Defelction	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

Models

Posts 3 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 BCC0-116-I1P2-E1 Corner post	1160		2000	
 BEE0-117-I1P2 End post	1170		2000	
 BEM0-117-I1P2 Mid post	1170		2000	

Impact rails 7 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	OTHER
 RCI1-027-0050 Impact rail		270	500	
 RCI1-047-0070 Impact rail		470	700	
 RCI1-077-0100 Impact rail		770	1000	
 RCI1-127-0150 Impact rail		1270	1500	



RCI1-177-0200
Impact rail

1700

2000



RCI1-227-0250
Impact rail

2270

2500



RCI1-277-0300
Impact rail

2770

3000

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		1250	1500	
 RCP1-177-0200 Hand rail		1770	2000	

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



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" -

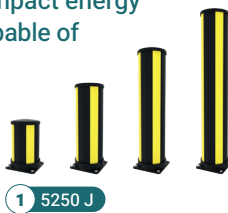
46 1/16"



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.



1 5250 J



2 4500 J



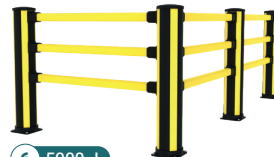
3 6200 J



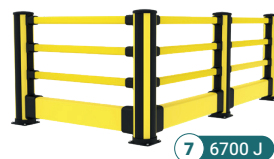
4 7700 J



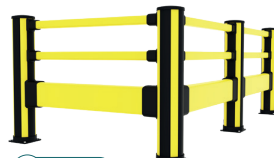
5 7000 J



6 5000 J



7 6700 J



8 8000 J



9 8300 J



10 0 J



11 1800 J



12 3000 J



13 1500 J



14 1700 J



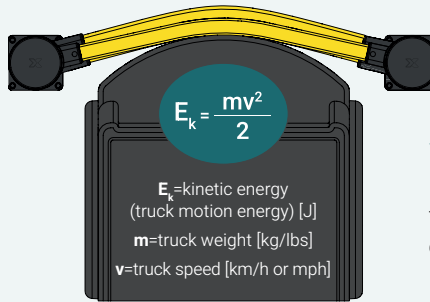
15 2250 J



16 3100 J

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*
13. Essential Bollards
14. Essential Pedestrian 2 rail
15. Essential Pedestrian
16. Essential Pedestrian + Impact High

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



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

