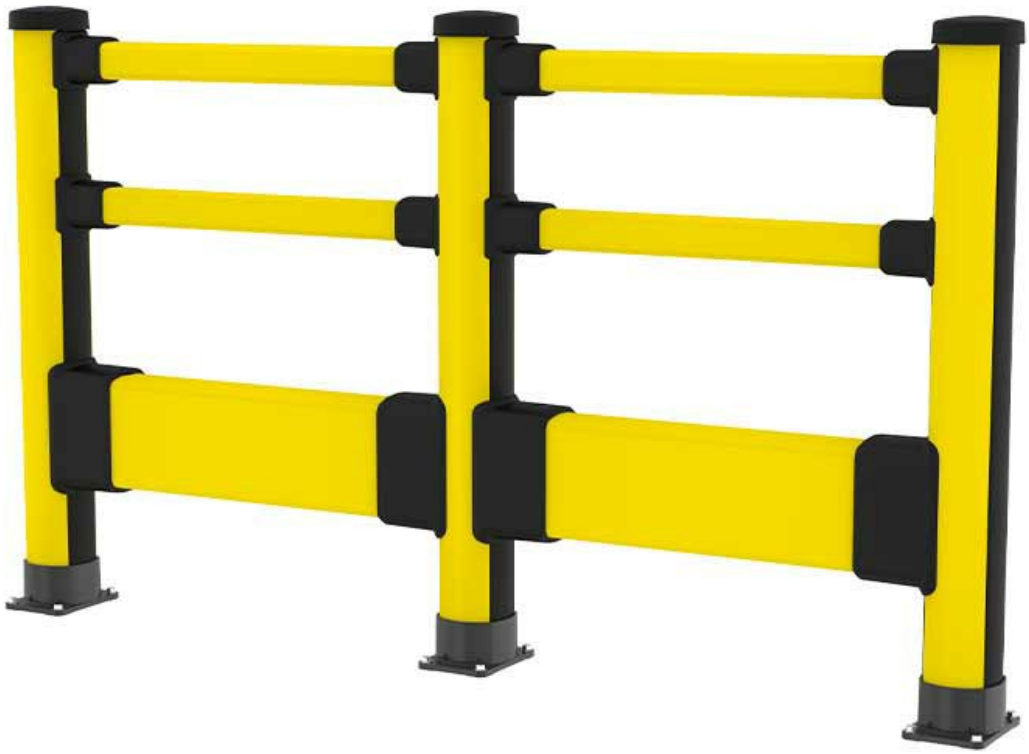
# Essential Pedestrian with Impact High

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° Defelction* | *Force to fixings* |
| Centre of barrier C - C as below | | | | | |
| 2000mm | 3100 J | 2500kg<br>5.7 km/h | 1500kg<br>7.3 km/h | 295mm | 5.7kN |
| Posts | | | | | |
| End post | 1500 J | 2500kg<br>3.9 km/h | 1500kg<br>5 km/h | 500mm | 3.2kN |
| Mid post | 1500 J | 2500kg<br>3.9 km/h | 1500kg<br>5 km/h | 450mm | 3.3kN |

# Models

## Posts 3 articles

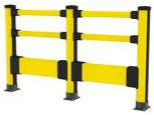
| ARTICLES / DESCRIPTION | HEIGHT (MM) | LENGTH (MM) | CC (MM) | OTHER |
|---|---|---|---|---|
| **BCC0-116-I1P2-E2**<br>Corner post | 1160 | | 2000 | |
| **BEE0-117-I1P2-A1**<br>End post | 1170 | | 2000 | Compatible with the Floor Barrier |
| **BEM0-117-I1P2-A1**<br>Mid post | 1170 | | 2000 | Compatible with the Floor Barrier |

## Impact rails 7 articles

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

| | | | | | |
|---|---|---|---|---|---|
| | **RCI1-177-0200**<br>Impact rail | | 1770 | 2000 | |
| | **RCI1-227-0250**<br>Impact rail | | 2270 | 2500 | |
| | **RCI1-277-0300**<br>Impact rail | | 2770 | 3000 | |

## Hand rails 5 articles

| ARTICLES / DESCRIPTION | | HEIGHT (MM) | LENGTH (MM) | CC (MM) | OTHER |
|---|---|---|---|---|---|
| | **RCP1-027-0050**<br>Hand rail | | 270 | 500 | |
| | **RCP1-047-0070**<br>Hand rail | | 470 | 700 | |
| | **RCP1-077-0100**<br>Hand rail | | 770 | 1000 | |
|  | **RCP1-127-0150**<br>Hand rail | | 1270 | 1500 | |
| | **RCP1-177-0200**<br>Hand rail | | 1770 | 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
# 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

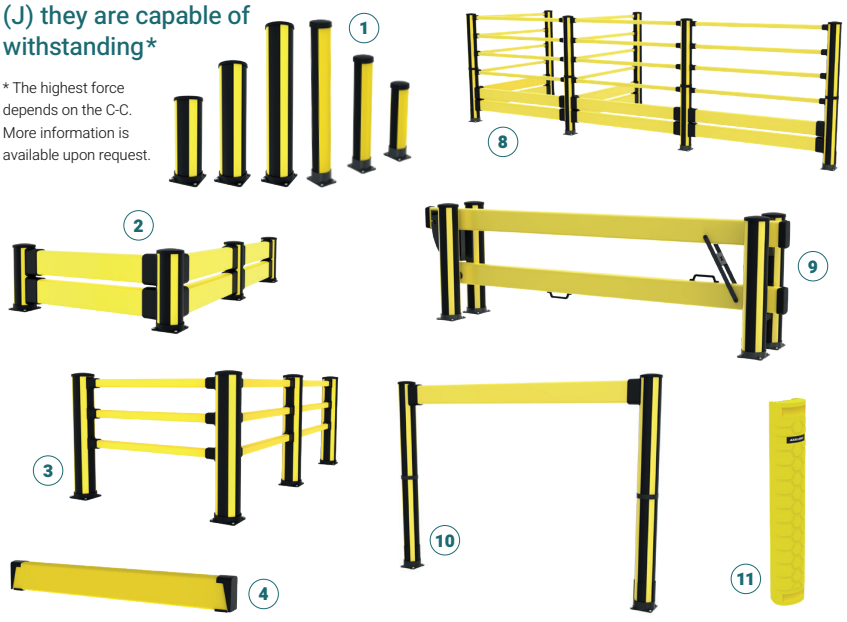
**Classic**
4 connection sides
Width:
200 mm
7 7/8"
Height:
350 – 1160 mm
13 13/16" – 45 11/16"

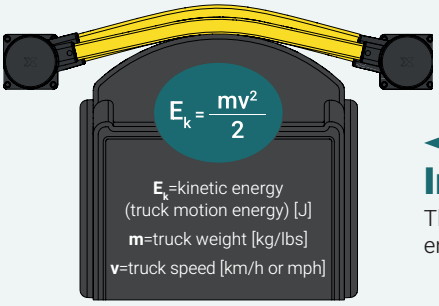
**Essential**
2 connection sides
Width:
132 mm
5 3/16"
Height:
620 – 1170 mm
24 7/16" – 46 1/16"

## 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.



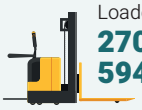




## Impact testing

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**