

# 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<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            |

## Modelle

### Posts 3 artikel

| ARTIKEL / BESCHREIBUNG                                                                                                    | HÖHE (MM) | LÄNGE (MM) | CC (MM) | ANDERE |
|---------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|--------|
|  <b>BCC0-116-I1P2-E1</b><br>Corner post | 1160      |            | 2000    |        |
|  <b>BEE0-117-I1P2</b><br>End post      | 1170      |            | 2000    |        |
|  <b>BEM0-117-I1P2</b><br>Mid post      | 1170      |            | 2000    |        |

### Impact rails 7 artikel

| ARTIKEL / BESCHREIBUNG                                                                                                  | HÖHE (MM) | LÄNGE (MM) | CC (MM) | ANDERE |
|-------------------------------------------------------------------------------------------------------------------------|-----------|------------|---------|--------|
|  <b>RCI1-027-0050</b><br>Impact rail |           | 270        | 500     |        |
|  <b>RCI1-047-0070</b><br>Impact rail |           | 470        | 700     |        |
|  <b>RCI1-077-0100</b><br>Impact rail |           | 770        | 1000    |        |
|  <b>RCI1-127-0150</b><br>Impact rail |           | 1270       | 1500    |        |

|                                                                                   |                                     |      |      |
|-----------------------------------------------------------------------------------|-------------------------------------|------|------|
|  | <b>RCI1-177-0200</b><br>Impact rail | 1700 | 2000 |
|  | <b>RCI1-227-0250</b><br>Impact rail | 2270 | 2500 |
|  | <b>RCI1-277-0300</b><br>Impact rail | 2770 | 3000 |

## Hand rails 5 artikel

| ARTIKEL / BESCHREIBUNG                                                              |                                   | HÖHE (MM) | LÄNGE (MM) | CC (MM) | ANDERE |
|-------------------------------------------------------------------------------------|-----------------------------------|-----------|------------|---------|--------|
|    | <b>RCP1-027-0050</b><br>Hand rail |           | 270        | 500     |        |
|    | <b>RCP1-047-0070</b><br>Hand rail |           | 470        | 700     |        |
|   | <b>RCP1-077-0100</b><br>Hand rail |           | 770        | 1000    |        |
|   | <b>RCP1-127-0150</b><br>Hand rail |           | 1250       | 1500    |        |
|  | <b>RCP1-177-0200</b><br>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" -

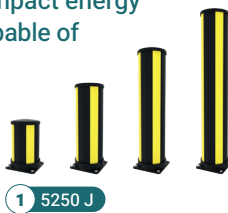
46 1/16"



## 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



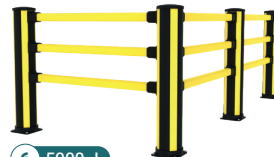
3 6200 J



4 7700 J



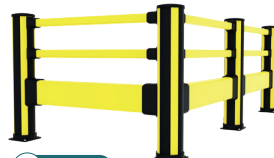
5 7000 J



6 5000 J



7 6700 J



8 8000 J



9 8300 J



10 0 J



11 1800 J



12 3000 J



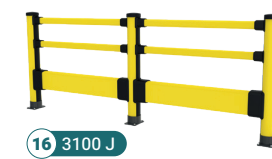
13 1500 J



14 1700 J



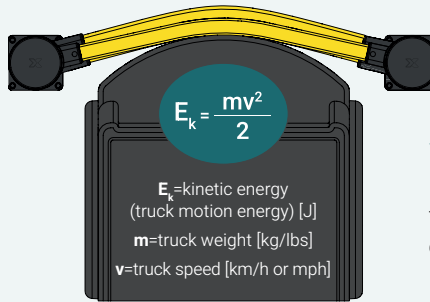
15 2250 J



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

