# Topple Barrier Pedestrian

The X-Protect Topple Barrier Pedestrian helps create safe separation between storage areas, pedestrian walkways and internal traffic routes in warehouse and logistics environments. Designed to maintain visibility and efficient workflow, the system helps providing clear segregation between traffic and personnel.



The X-Protect Topple Barrier Pedestrian is developed for warehouse, logistics and production environments where pallet handling, stored goods and internal traffic create safety risks for personnel and operations.

Topple Barrier Pedestrian provide clear segregation and protect personnel from leaning or falling goods while maintaining open visibility across the workspace. Its modular construction integrates directly with the X-Protect range, allowing flexible and continuous protection layouts throughout the facility.

The flexible design enables safe and efficient workflows in busy operational environments. Installation is fast and straightforward using the same simple installation approach as the rest of the X-Protect range, allowing damaged sections to be replaced quickly when needed.

**Key features**

- Modular X-Protect integration

- Fast and easy to install
- Easy to repair
- Maintains visibility and workflow
- Flexible and scalable design

## Impact test results

| | Area of impact | Load | | Equivalent to | 90' deflection | Force to fixings |
|---|---|---|---|---|---|---|
| | Centre of barrier C - C as below | | | | | |
| Topple Barrier Pedestrian 2300 | 2000 mm | 5000 J | 2500 kg<br>7,2 km/h | 5000 kg<br>5,1 km/h | N/A | 10,1 kN |
| | Post | | | | | |
| Topple Barrier Pedestrian 2300 | End post | 5250 J | 2500 kg<br>7,3 km/h | 5000 kg<br>5,2 km/h | N/A | 7,5 kN |
| Topple Barrier Pedestrian 2300 | Mid post | 5250 J | 2500 kg<br>7,3 km/h | 5000 kg<br>5,2 km/h | N/A | 5,8 kN |
| | Area of impact | Load | | Equivalent to | 90' deflection | Force to fixings |
| | Centre of barrier C - C as below | | | | | |
| Topple Barrier Pedestrian 3400 | 2000 mm | 5000 J | 2500 kg<br>7,2 km/h | 5000 kg<br>5,1 km/h | N/A | 5,3 kN |
| | Post | | | | | |
| Topple Barrier Pedestrian 3400 | End post | 5250 J | 2500 kg<br>7,3 km/h | 5000 kg<br>5,2 km/h | N/A | 7,2 kN |
| Topple Barrier Pedestrian 3400 | Mid post | 5250 J | 2500 kg<br>7,3 km/h | 5000 kg<br>5,2 km/h | N/A | 9,9 kN |

* Deflection of posts is equivalent or less than that of the rail/s and is not considered to be critical for product selection. Performance is tested at height of the lowest rail. The post will perform better for lower strikes and deflection. The Axelent Topple Barrier is tested for static load on top rail up to 400 kg.

# Models

### Height 2280 mm 4 articles

| ARTICLES / DESCRIPTION | WIDTH (MM) | HEIGHT (MM) | COLOR |
|---|---|---|---|
|  **BTC0-228-00P6**<br>Topple Pedestrian corner | | 2300 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  **BTE0-228-00P6**<br>Topple Pedestrian end | | 2300 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  **BTM0-228-00P6**<br>Topple Pedestrian mid | | 2300 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |

| | | | | |
|---|---|---|---|---|
|  | **BTT0-228-00P6**<br>Topple Pedestrian T post | | 2300 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |

## Height 3402 mm 4 articles

| ARTICLES / DESCRIPTION | | WIDTH (MM) | HEIGHT (MM) | COLOR |
|---|---|---|---|---|
|  | **BTC0-340-00P9**<br>Topple Pedestrian corner | | 3400 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTE0-340-00P9**<br>Topple Pedestrian end | | 3400 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTM0-340-00P9**<br>Topple Pedestrian mid | | 3400 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTT0-340-00P9**<br>Topple Pedestrian T post | | 3400 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |

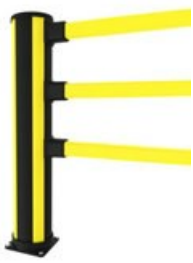
## Height 4520 mm 4 articles

| ARTICLES / DESCRIPTION | | WIDTH (MM) | HEIGHT (MM) | COLOR |
|---|---|---|---|---|
|  | **BTC0-450-00P12**<br>Topple Pedestrian corner | | 4520 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTE0-450-00P12**<br>Topple Pedestrian end | | 4520 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTM0-450-00P12**<br>Topple Pedestrian mid | | 4520 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |
|  | **BTT0-450-00P12**<br>Topple Pedestrian T post | | 4520 | Zinc Yellow (RAL 1018)<br>Graphite Black (RAL 9011) |

## Hand rails 5 articles

| ARTICLES / DESCRIPTION | WIDTH (MM) | HEIGHT (MM) | COLOR |
|---|---|---|---|
|  **RCP1-047-0070** Hand rail | | | Zinc Yellow (RAL 1018) |
|  **RCP1-077-0100** Hand rail | | | Zinc Yellow (RAL 1018) |
|  **RCP1-127-0150** Hand rail | | | Zinc Yellow (RAL 1018) |
|  **RCP1-177-0200** Hand rail | | | Zinc Yellow (RAL 1018) |
|  **RCP1-027-0050** Hand rail | | | Zinc Yellow (RAL 1018) |

# Related products



CLASSIC PEDESTRIAN

### Pedestrian Barrier

Use the X-Protect Pedestrian Barrier configuration to define pedestrian routes and protect from light duty impacts. It is also possible to combine with a pedestrian gate. The pedestrian gate is sel...

*9 articles*



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*



COLUMN GUARDS

### Multifunction Column Guard

The Multifunction Column Guard is designed to protect large building columns and pillars from impacts caused by forklifts and other material handling equipment. With asymmetrical on-site adjustment...

*3 articles*



X-PROTECT BOLLARDS

### Bollards

X-Protect Bollards safeguard corners, doorways and equipment from vehicle impacts. The black and yellow colour scheme enhances visibility and helps direct forklift traffic, creating safer, well-org...

*7 articles*



NEW

X-PROTECT DOCK GATE

### Dock Gate

The X-Protect Dock Gate helps protect loading bays and dock areas in demanding warehouse and logistics environments. Designed for smooth and controlled operation, it combines reliable impact protec...

*3 articles*

# 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"

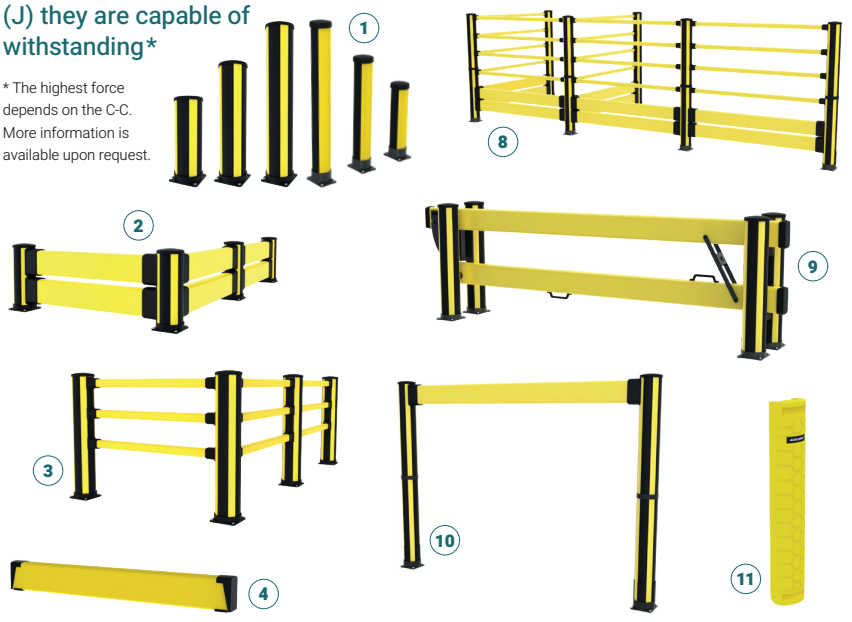
**Essential**
2 connection sides
Width:
132 mm
5 3/16"
Height:
620 – 1170 mm
24 7/16" – 46 1/16"

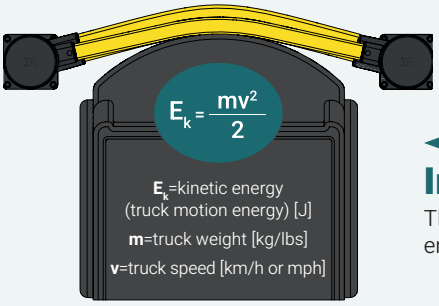


## X-Protect Standard Configurations

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

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



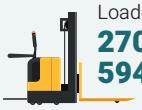

## Impact testing

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**