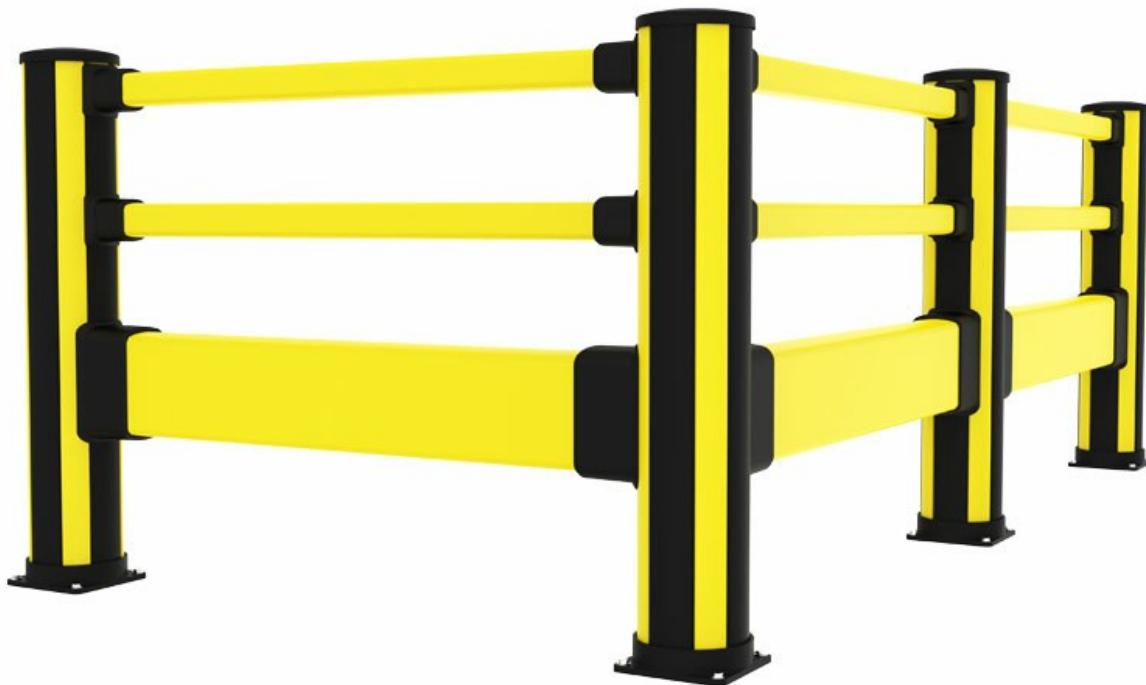




Est 1990

# Pedestrian with impact high

Use the X-Protect Pedestrian + Impact high barrier configuration to protect walkways from medium duty vehicles where there is a reduced risk of ground level impacts. It is also possible to combine with a pedestrian gate. The pedestrian gate is self closing, provided with a universal handle and width is adjustable from 690-1210 mm.



X-Protect is a unique approach to safety barriers. Unrivalled modularity, using only a few system components and damping that is built in to create a barrier system that changes with your work place. X-Protect allows rapid transformation, repair or replacement of existing barriers and bespoke configurations are limitless.

<b>Impact test results</b>					
<i>Area of impact</i>	<i>Load</i>	<i>Equivalent to</i>	<i>90° Deflection</i>	<i>Force to fixings</i>	
Centre of barrier C - C as below					
2000mm	8000 J	2500 kg 9.1 km/h	5000 kg 6.4 km/h	450mm	17 kN
Posts					
End post	1850 J	2500 kg 4.3 km/h	5000 kg 3 km/h	NA *	11.6 kN
Mid post	2450 J	2500 kg 5 km/h	5000 kg 3.5 km/h	NA *	12.7 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.

## Models

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### Posts 6 articles

<b>ARTICLES / DESCRIPTION</b>	<b>HEIGHT (MM)</b>	<b>LENGTH (MM)</b>	<b>CC (MM)</b>	<b>COLOR</b>
 <b>BCC1-116-I1P2</b> Pedestrian + Impact High corner	1160			Zinc Yellow (RAL 1018)
 <b>BCC0-116-I1P2</b> Pedestrian + Impact High corner	1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 <b>BCM1-116-I1P2</b> Pedestrian + Impact High mid	1160			Zinc Yellow (RAL 1018)
 <b>BCM0-116-I1P2</b> Pedestrian + Impact High mid	1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
 <b>BCE1-116-I1P2</b> Pedestrian + Impact High end	1160			Zinc Yellow (RAL 1018)
 <b>BCE0-116-I1P2</b> Pedestrian + Impact High end	1160			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)

## Impact rails 7 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 <b>RCI1-027-0050</b> Impact rail	270	500		Zinc Yellow (RAL 1018)
 <b>RCI1-277-0300</b> Impact rail	2770	3000		Zinc Yellow (RAL 1018)
 <b>RCI1-227-0250</b> Impact rail	2270	2500		Zinc Yellow (RAL 1018)
 <b>RCI1-177-0200</b> Impact rail	1770	2000		Zinc Yellow (RAL 1018)
 <b>RCI1-127-0150</b> Impact rail	1270	1500		Zinc Yellow (RAL 1018)
 <b>RCI1-077-0100</b> Impact rail	770	1000		Zinc Yellow (RAL 1018)
 <b>RCI1-047-0070</b> Impact rail	470	700		Zinc Yellow (RAL 1018)

## Hand rails 5 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 <b>RCP1-027-0050</b> Hand rail	270	500		Zinc Yellow (RAL 1018)
 <b>RCP1-047-0070</b> Hand rail	470	700		Zinc Yellow (RAL 1018)
 <b>RCP1-077-0100</b> Hand rail	770	1000		Zinc Yellow (RAL 1018)
 <b>RCP1-127-0150</b> Hand rail	1270	1500		Zinc Yellow (RAL 1018)
 <b>RCP1-177-0200</b> Hand rail	1770	2000		Zinc Yellow (RAL 1018)

## Gate 1 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 GCP8-069-0121 Pedestrian gate, 690-1210 mm				

## Related products

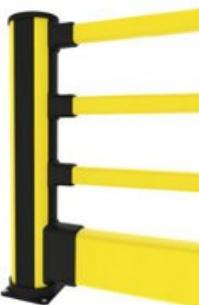


### PEDESTRIAN BARRIERS

#### Pedestrian gate

Universally handed, self closing and width adjustable from 690mm to 1210 mm.

[1 articles](#)

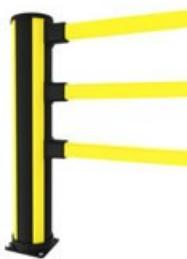


### CLASSIC PEDESTRIAN BARRIERS

#### Pedestrian with impact

Use the X-Protect Pedestrian + Impact barrier configuration to protect walkways from medium duty vehicles where there is an increased risk of ground level impacts. It is also possible to combine wi...

[19 articles](#)



### CLASSIC PEDESTRIAN BARRIERS

#### Pedestrian

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...

[12 articles](#)

## 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



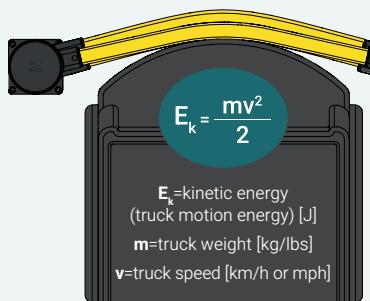
2 4500 J



3 6200 J



4 7700 J



$E_k = \frac{mv^2}{2}$

$E_k$ =kinetic energy  
(truck motion energy) [J]  
 $m$ =truck weight [kg/lbs]  
 $v$ =truck speed [km/h or mph]

## 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

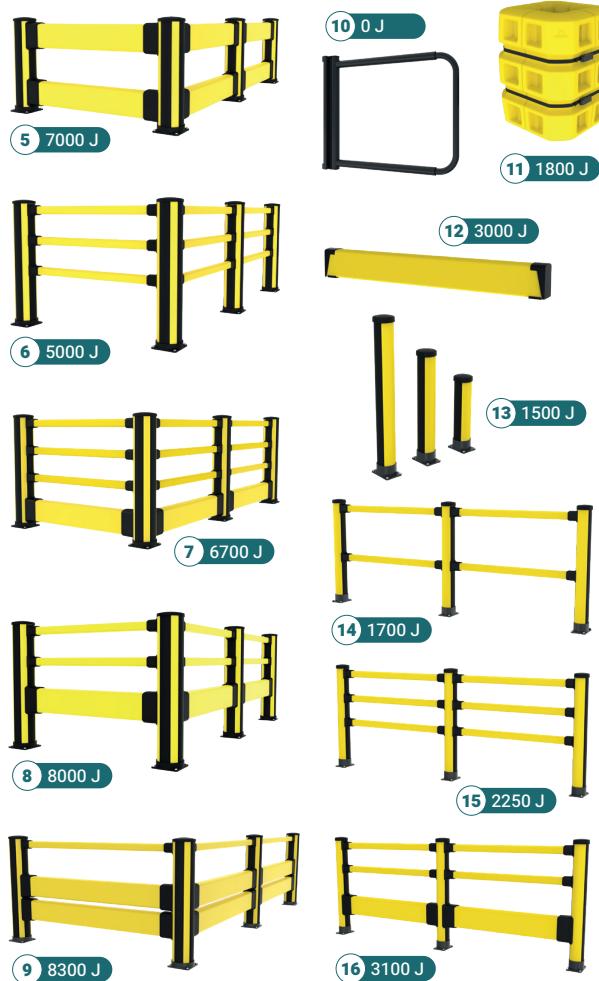
Yellow RAL 1018 Black RAL 9011

### Operating temperature

-10°C → 40°C



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**