



# Impact high

Use the X-Protect Impact High Barrier for high level impact protection. It is ideal for segregating light weight vehicles or defining warehouse zones.

Our modular rails and bollards allow for damaged or worn parts to be replaced at a component level. If you need to replace any component - it is just a slide away.









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.

Impact test results					
Area of impact	Load	Equivalent to		90° Deflection	Force to fixings
Centre of barrier C - C as below					
2000mm	6200 J	2500 kg 8 km/h	5000 kg 5.6 km/h	430mm	14.5 kN
2500mm	5500 J	2500 kg 7.5 km/h	5000 kg 5.3 km/h	470mm	12.2 kN
3000mm	5200 J	2500 kg 7.3 km/h	5000 kg 5.1 km/h	520mm	10.4 kN
Posts					
End post	2400 J	2500 kg 4.9 km/h	5000 kg 3.5 km/h	NA *	19.2 kN
Mid post	2400 J	2500 kg 4.9 km/h	5000 kg 3.5 km/h	NA *	18.1 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

### Posts 6 articles

ARTICLES / DESCRIPTION		HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
	<b>BCC1-061-I100</b> Impact High corner	610			Zinc Yellow (RAL 1018)
	<b>BCC0-061-I100</b> Impact High corner	610			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCM1-061-I100</b> Impact High mid	610			Zinc Yellow (RAL 1018)
	<b>BCM0-061-I100</b> Impact High mid	610			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCE1-061-I100</b> Impact High end	610			Zinc Yellow (RAL 1018)
	<b>BCE0-061-I100</b> Impact High end	610			Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)

## Impact rails 15 articles

ARTICLES / DESCRIPTION	HEIGHT (MM)	LENGTH (MM)	CC (MM)	COLOR
 <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)
 <b>RCI1-027-0050</b> Impact rail		270	500	Zinc Yellow (RAL 1018)
 <b>RCI1-064-0087</b> Impact rail		640	870	Zinc Yellow (RAL 1018)
 <b>RCI1-067-0090</b> Impact rail		670	900	Zinc Yellow (RAL 1018)
 <b>RCI1-197-0220</b> Impact rail		1970	2200	Zinc Yellow (RAL 1018)
 <b>RCI1-201-0224</b> Impact rail		2010	2240	Zinc Yellow (RAL 1018)
 <b>RCI1-074-0097</b> Impact rail		740	970	Zinc Yellow (RAL 1018)
 <b>RCI1-207-0230</b> Impact rail		2070	2300	Zinc Yellow (RAL 1018)
 <b>RCI1-211-0234</b> Impact rail		2110	2340	Zinc Yellow (RAL 1018)
 <b>RCI1-217-0240</b> Impact rail		2170	2400	Zinc Yellow (RAL 1018)

## Related products

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### IMPACT BARRIERS

#### Impact

Use the X-Protect Impact Barrier for ground level impact protection. It is ideal for segregating light weight vehicles or defining warehouse zones. Our modular rails and bollards allow for damaged...

[21 articles](#)



### IMPACT BARRIERS

#### Double impact

Use the X-Protect Double Impact Barrier configuration to protect structures from high level, heavy duty impacts. It is one of our strongest Impact protection configurations. Our modular rails and b...

[21 articles](#)



### IMPACT BARRIERS

#### Double impact low

Use the X-Protect Double Impact Low Barrier configuration to protect structures from ground level, heavy duty impacts. It is one of our strongest Impact protection configurations and also&nbsp;idea...

[21 articles](#)



### PEDESTRIAN BARRIERS

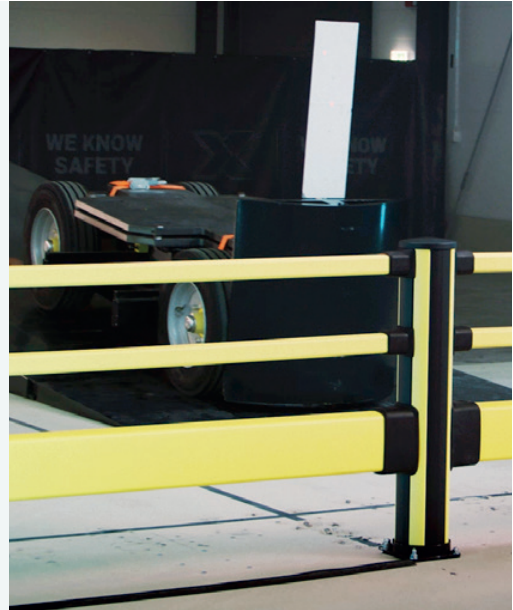
#### Pedestrian with impact high

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...

[19 articles](#)

## X-Protect is **Safe**

- ✓ Our impact protection products undergo rigorous testing at our state-of-the-art testing facility.
- ✓ With decades of experience in industrial safety, we've designed our impact protection to perform effectively in real-world conditions.
- ✓ We know safety and can guide you to the best solutions tailored to your specific needs.



## X-Protect is **Modular**

- ✓ Quickly modify barrier specifications with minimal waste.
- ✓ Perform easy and cost-effective repairs at a component level.
- ✓ Quickly build strong integrated installations with few parts.



## X-Protect is **Sustainable**

- ✓ Simple end of life dis-assembly, even after an accident.
- ✓ Single material components that are easy to recycle.
- ✓ Repairable by design, damaged or worn components are easily replaced extending the barrier's life.



## 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



Height:

350 - 1160 mm

13 13/16" -

45 11/16"

Width:

200 mm

7 7/8" in



## Component Colours



RAL 1018



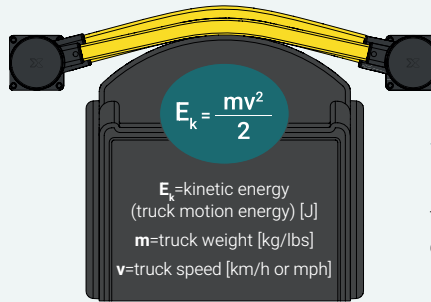
RAL 9011

## 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**



Loaded weight  
**2700 kg / 5940 lbs**



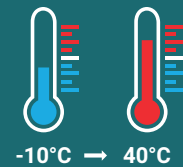
Loaded weight  
**2100 kg / 4620 lbs**

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

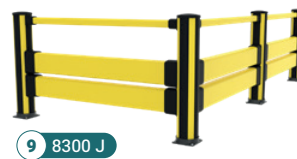
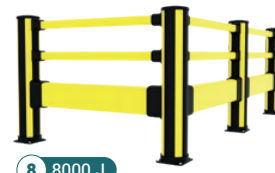
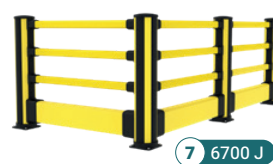
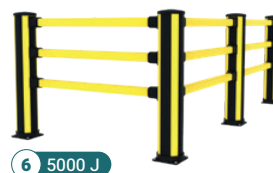
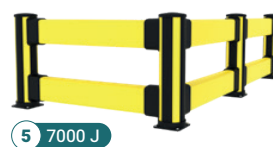
## Operating temperature



## Assembly



SCAN THE CODE TO  
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 ASSEMBLY MANUALS



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

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