



Upright protector

This upright protector fits all commonly used rack upright profiles and slot patterns. With its energy absorbing design it distributes collision forces without reducing the clear entry access to racking bays. It is easy to install and replace when needed. This impact protection are tested in accordance with FEM guidance.



Models

ARTICLES / DESCRIPTION		MIN WIDTH (MM)	MAX WIDTH (MM)	HEIGHT (MM)	OTHER
	RG-AVB RAL 1023	79	92	500	Minimum order quantity: 21
	RG-AVC RAL 1023	92	105	500	Minimum order quantity: 18
	RG-AVD RAL 1023	105	118	500	Minimum order quantity: 18

Related products

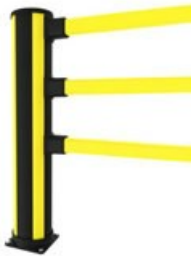


IMPACT BARRIERS

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](#)



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](#)

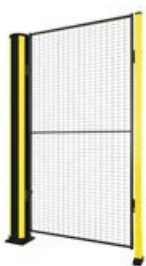


X-PROTECT

Bollards

Use our X-Protect bollards to protect doorways, exposed corners and machinery. The black and yellow bollards also attract the fork lift driver's attention and act as guidance along traffic routes....

[8 articles](#)



X-PROTECT

X-Guard Connection bollards

Use our X-Protect bollards to protect doorways, exposed corners and machinery. The black and yellow bollards also attract the fork lift driver's attention and act as guidance along traffic routes....

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COLUMN GUARDS

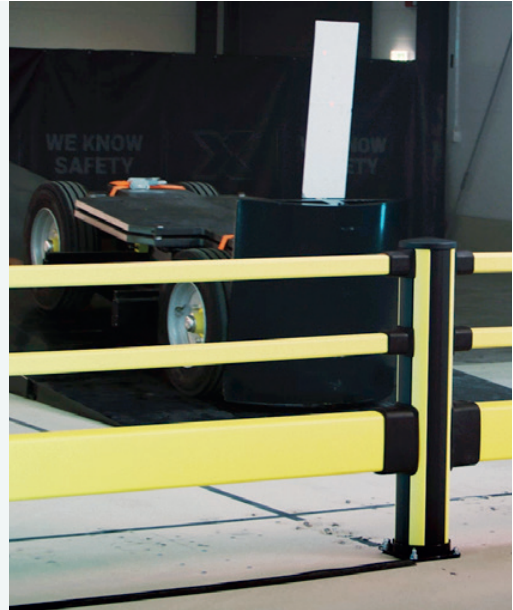
X-protect Column guard

Use the X-Protect Column Guard when you need to protect the columns in your facility from impact damage. The unique design features specially formed air channels that effectively dissipate impact f...

[1 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



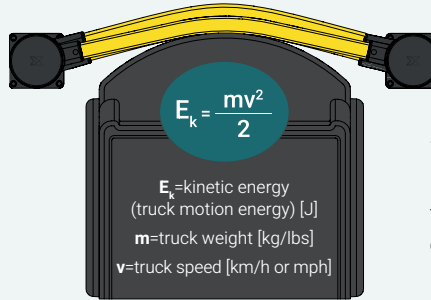
RAL 9011

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

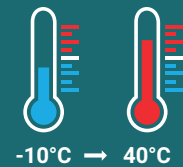
2100 kg / 4620 lbs

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

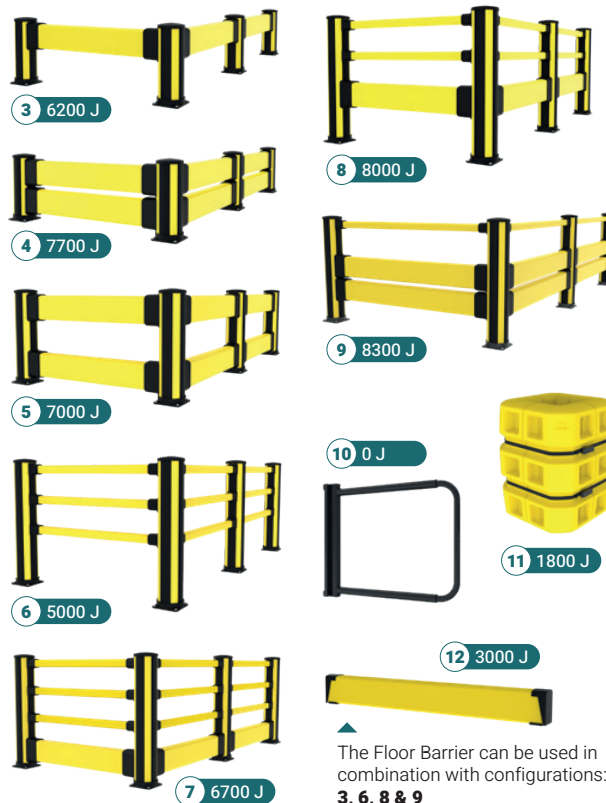
Operating temperature



Assembly



SCAN THE CODE TO
DOWNLOAD OUR
ASSEMBLY MANUALS



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

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