

# 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
 <b>RG-AVB</b> RAL 1023	79	92	500	Minimum order quantity: 21
 <b>RG-AVC</b> RAL 1023	92	105	500	Minimum order quantity: 18



**RG-AVD**  
RAL 1023

105

118

500

Minimum order quantity: 18

## Related products

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### X-PROTECT IMPACT PROTECTION

#### 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...

15 articles



### 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 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...

11 articles



### X-PROTECT X-GUARD BOLLARDS

#### 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...

9 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"

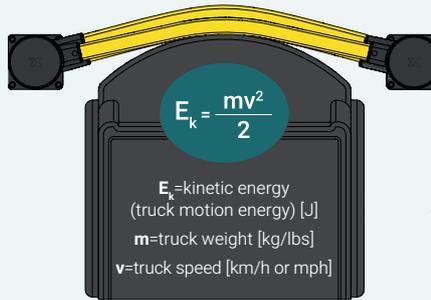
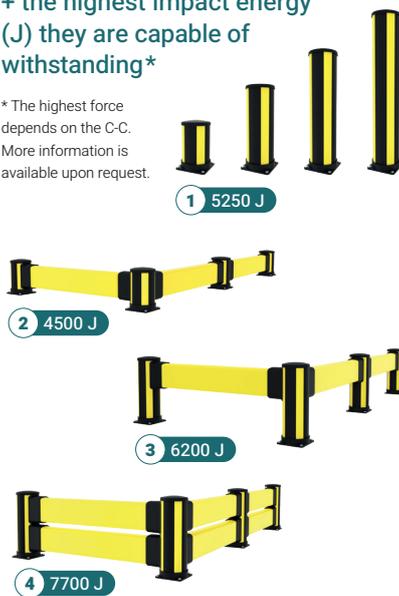


Height:  
 620 -  
 1170 mm  
 24 7/16" -  
 46 1/16"

### 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.



### 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

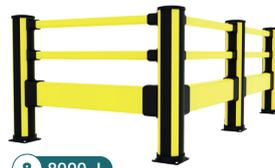
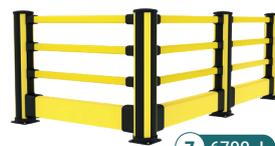
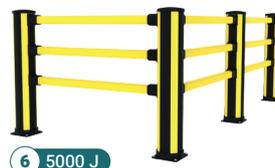
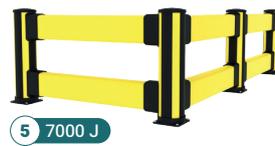
Speed	Load
6 km/h   3.7 mph	2930 J
8 km/h   5 mph	5180 J
12 km/h   7.5 mph	11670 J

#### Component Colours

● RAL 1018 ● RAL 9011

#### Operating temperature

-10°C → 40°C



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**