

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-organised industrial routes.



The X-Protect Classic Bollards are built for heavy-duty protection in areas exposed to frequent vehicle movement. Ideal for safeguarding doorways, exposed corners and machinery, they attract attention and help drivers navigate safely along traffic routes. The Classic Bollards are available in four sizes, from 350 to 1160 mm, and can also be seamlessly integrated into the X-Guard Machine Guard System, creating a continuous safety solution across the facility.

The X-Protect Essential Bollards, by contrast, are designed for light-duty impact zones where flexibility and fast installation are key. They provide dependable ground-level protection against accidental contact from forklifts, AMRs or pallet trucks while maintaining an open layout. Available in four sizes from 620 to 1170 mm, the Essential Bollards allow easy adaptation to different layouts and traffic conditions.

As part of the X-Protect Impact Protection System, both bollard types feature modular components, quick installation and easy maintenance which gives long-term performance with minimal disruption.

Key features

- Fast to install
- Kind to the floor

- Easy to repair

Impact test results					
Classic Bollard					
Bollard height	Load	Equivalent to		90° Deflection	Force to fixings
350mm	3200 J	2500 kg 5.7 km/h	5000 kg 4 km/h	NA*	18 kN
610mm	5250 J	2500 kg 7.3 km/h	5000 kg 5.2 km/h	300mm	19.5 kN
870mm	5250 J	2500 kg 7.3 km/h	5000 kg 5.2 km/h	420mm	17.5 kN
1160mm	5250 J	2500 kg 7.3 km/h	5000 kg 5.2 km/h	620mm	12 kN
Essential Bollard					
Bollard height	Load	Equivalent to		90° Deflection	Force to fixings
620mm	1500 J	2500 kg 3.9 km/h	1500 kg 5 km/h	160mm	5.6 kN
880mm	1500 J	2500 kg 3.9 km/h	1500 kg 5 km/h	380mm	6.4 kN
1170mm	1500 J	2500 kg 3.9 km/h	1500 kg 5 km/h	585mm	4.3 kN

- Due to the bollard height, it is considered that the deflection is not critical for product selection.

Models

Essential Bollards 3 articles

ARTICLES / DESCRIPTION	WIDTH (MM)	HEIGHT (MM)	COLOR
 BEP0-062-0000 Essential Bollard	114	620	Zinc Yellow Graphite Black
 BEP0-088-0000 Essential Bollard	114	880	Zinc Yellow Graphite Black

	BEP0-117-0000 Essential Bollard	114	1170	Zinc Yellow Graphite Black
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Classic Bollards 8 articles

ARTICLES / DESCRIPTION	WIDTH (MM)	HEIGHT (MM)	COLOR
 BCP1-035-0000 Classic Bollard	200	350	Zinc Yellow
 BCP0-035-0000 Classic Bollard	200	350	Zinc Yellow Graphite Black
 BCP1-061-0000 Classic Bollard	200	610	Zinc Yellow
 BCP0-061-0000 Classic Bollard	200	610	Zinc Yellow Graphite Black
 BCP1-087-0000 Classic Bollard	200	870	Zinc Yellow
 BCP0-087-0000 Bollard	200	870	Zinc Yellow Graphite Black
 BCP1-116-0000 Classic Bollard	200	1160	Zinc Yellow
 BCP0-116-0000 Classic Bollard	200	1160	Zinc Yellow Graphite Black

Related products

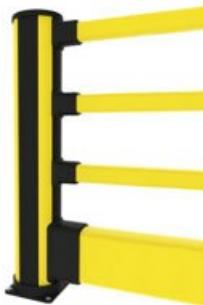


X-PROTECT

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....

[12 articles](#)

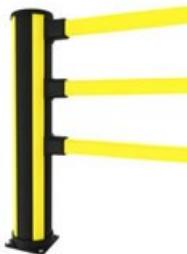


CLASSIC PEDESTRIAN BARRIER

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 BARRIER

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

Height:
350 -
1160 mm
13 13/16" -
45 11/16"

Width:
200 mm
7 7/8"



Essential

2 connection sides

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

Width:
132 mm
5 3/16"

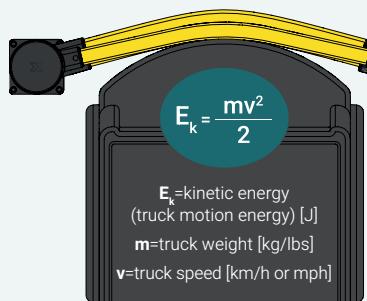
Height:
620 -
1170 mm
24 7/16" -
46 1/16"

Width:
132 mm
5 3/16"

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.



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

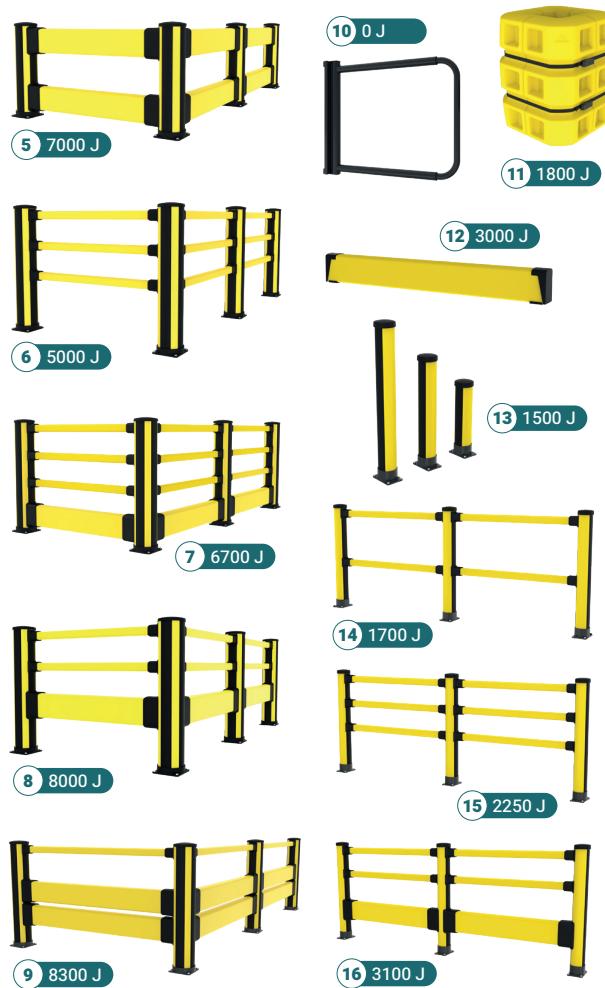
Yellow: RAL 1018 Black: RAL 9011

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