



Est 1990

# 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. The bollards are available in four different sizes from 350-1160 mm.

X-Protect bollards can also be integrated in X-Guard machine guard.











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					
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

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

## Models

ARTICLES / DESCRIPTION		WIDTH (MM)	HEIGHT (MM)	COLOR
	<b>BCP0-116-0000</b> Bollard	200	1160	Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCP1-116-0000</b> Bollard	200	1160	Zinc Yellow (RAL 1018)
	<b>BCP0-087-0000</b> Bollard	200	870	Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCP1-087-0000</b> Bollard	200	870	Zinc Yellow (RAL 1018)
	<b>BCP0-061-0000</b> Bollard	200	610	Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCP1-061-0000</b> Bollard	200	610	Zinc Yellow (RAL 1018)
	<b>BCP0-035-0000</b> Bollard	200	350	Zinc Yellow (RAL 1018) Graphite Black (RAL 9011)
	<b>BCP1-035-0000</b> Bollard	200	350	Zinc Yellow (RAL 1018)

## Related products

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### 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...

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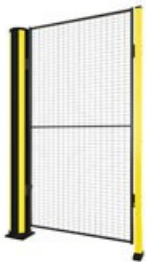


### PEDESTRIAN BARRIERS

#### **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...

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### 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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