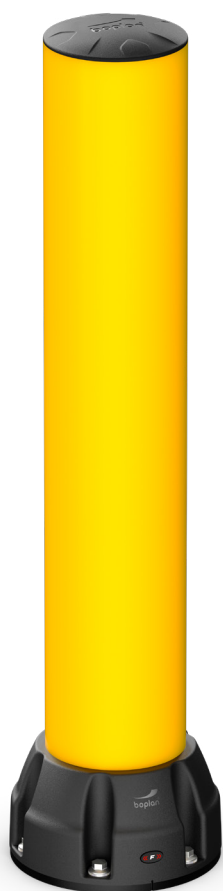


BO200F

BOLLARDS AND HEIGHT RESTRICTORS



PRODUCT SPECIFICATIONS

APPLICATION	
Environment	Both robust and flexible, the BO200F with enforced base absorbs medium to heavy impacts in areas where high risks occurs: - Nearby machinery and infrastructure e.g. walls, accessways, and corners - Nearby heavy-duty vehicle traffic e.g. trucks, vans, and forklifts - Nearby people operating pushcarts, order picking vehicles and pallet trucks (due to buffering base protection) - Indoor and outdoor environments
Impact performance	16510 Joule (Eq. to 3,8 ton - 10,6 km/h) - Following UNI 11886-1
MATERIAL	
Tube	Extrilene® - UV resistant - Fire class E® - Non conductive - Impervious to most chemicals**
Caps	Sustainable elastomer
Base Defender	Sustainable elastomer
Base Shield	Sustainable elastomer
COLOURS	
Bollard	Standard: Yellow RAL 1003 Also available in Black RAL 9005, Grey RAL 7042 and Red RAL 3020 (multicolour)
Base Defender	Standard: Black RAL 9005
OPTIONAL	
Base Shield	The optional Shield ensures additional protection to crucial internal components by deflecting ground level impacts. It will also increase display presence and hygiene by covering over the fixations.
Sign Mark 200	Sign board used to display important messages. It is designed for a perfect fit and signs can easily be replaced with just a click.
Sleeve	Polymer sleeve that can be slid over the bollard.
Stripes	Coloured reflective stripes providing a high level of visibility.
BASEPLATE	
	Zinc Coated Steel
Material	Steel 37
Coating	Electro plating + Lacquered
Colour	Mat black

*Classification according to EN 13501-1:2007 +A1:2009 - Fire classification of construction products and building elements.

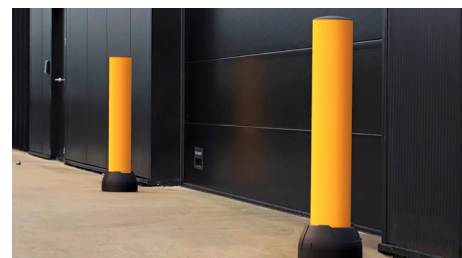
**Ask your local sales office for resistance to specific chemicals.

FIXATIONS			
		ZC (Zinc coated)	SS (Stainless steel)
STANDARD	Concrete screw	 Ø17mm x 130mm	 Not available
ALTERNATIVE	Wegde anchor	 Ø18mm (M12) x 130mm	 Not available

The anchors specified in this document are metric. Imperial anchors are available on demand.



Base Defender with Impact Button



BO 200 Force with optional Base Shield.

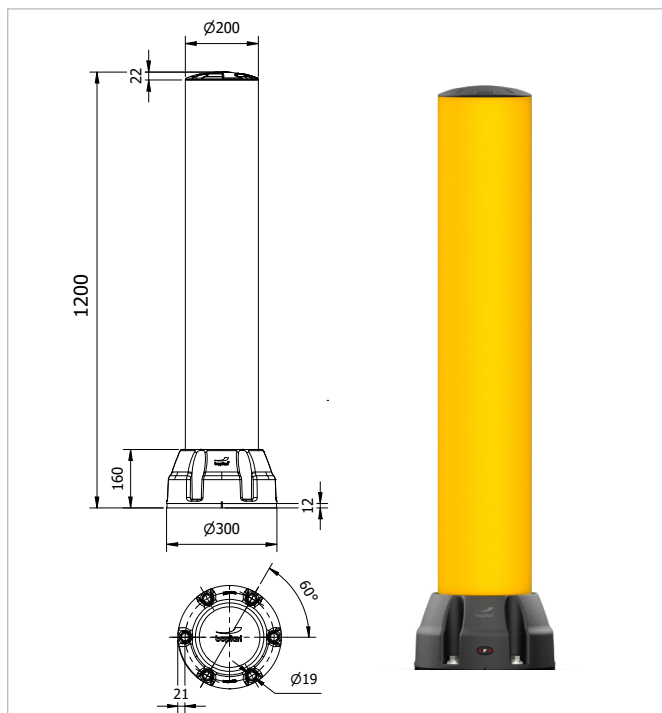


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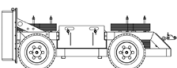


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SIZE	
Height	750 mm 1000 mm 1200 mm 1201-1525 mm 1600-2000 mm 2100-2500 mm
Profile section post	Tube: Ø200 mm
Baseplate	Ø300 mm (12 mm thick)
Base Defender	Top: Ø200 mm Base: Ø300 mm Height: 150 mm
Base Shield (optional)	Top: Ø200 mm Base: Ø325 mm Height: 175 mm



REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150
Concrete slab dimension around posts (mm)	900 (h) x 900 (w) x 700 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Zinc coated: Indoor and outdoor use in most environments.

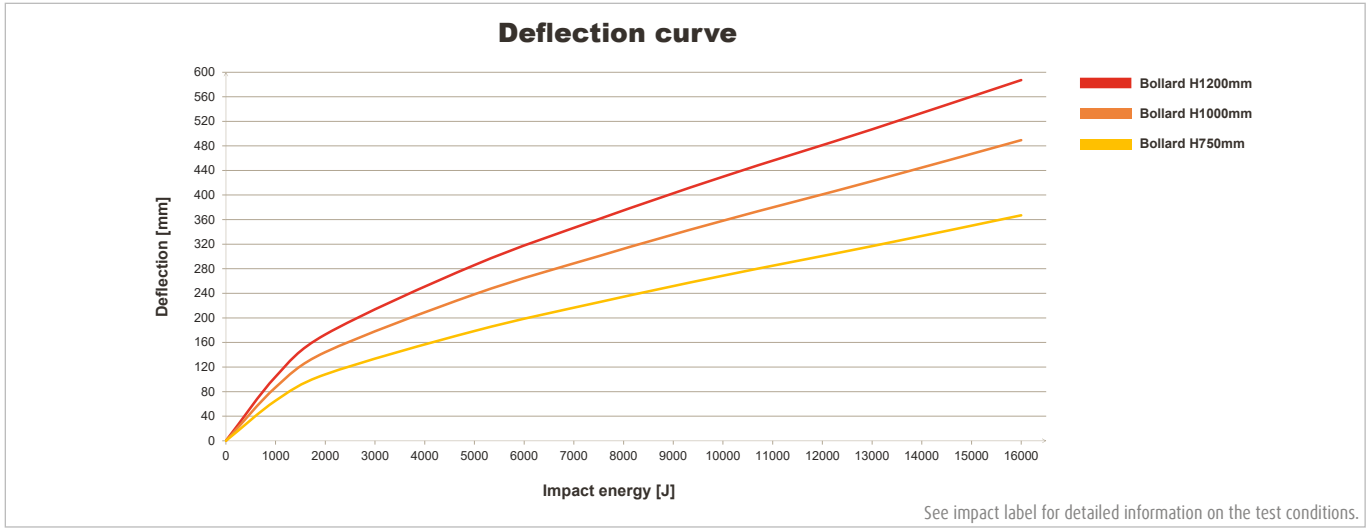
 IMPACT LABEL SAFETY GATES			
BOLLARD 200F			
BOPLAN IMPACT CATEGORY	RATING	90°	UNI 11886-1
X T F R B L	50 kJ	16 510 Joule	ENERGY CLASS
	40 kJ		6
	30 kJ		OPERATIONAL FOOTPRINT
	25 kJ		W900
	20 kJ		ASI CLASS
	17 kJ		a
	15 kJ		
	12 kJ		
	10 kJ		
	7.5 kJ		
5.0 kJ			
2.5 kJ			
0.5 kJ			
*Dynamic impact result: 16 510 Joule			
IMPACT TEST RESULTS AT 90°			
PRODUCT: B0200F0-1200-0001YEZ			
Deflection (D)			
At maximum impact energy			
			$\alpha_i = 17.7^\circ$
			$D_i = 350 \text{ mm} / 13.8 \text{ inch}$
TEST CONDITIONS FOLLOWING UNI 11886-1 AND PAS13: 2017		BOPLAN TEST CENTRE	
TEMPERATURE: 20°C / 68°F		Muizelstraat 12	
IMPACT MIDDLE OF POST		8560 Moorsele	
IMPACT HEIGHT: 300 mm / 12 Inch → D_i : 350 mm / 13 3/4 Inch → α_i : 17.7°		Belgium	
IMPACT HEIGHT: 600 mm / 24 Inch → D_i : 621 mm / 24 1/2 Inch → α_i : 35.4°		Approved by:	
TEST FLOOR: CONCRETE SLAB C25/30 - 150 mm / 6 Inch		TÜV NORD Systems	
TEST VEHICLE:			
TYPE: BOPLAN IMPACT TEST VEHICLE			
WEIGHT: 3775 Kg / 8322.45 lbs			
SIZE (L x W x h): 3100 x 1100 x 1150 mm / 122 x 43.3 x 45.3 Inch			
CONTACT AREA, STEEL BUMPER WIDTH: 1000 mm / 39.4 Inch			
* IMPACT VALUE ACCOUNTING FOR BARRIER DEFORMATION DURING IMPACT			
IL-B0200F-20250822			



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REFERENCE LIST - B0200F

Free standing Bollard 200F		
	ZINC COATED (ZC) Non - countersunk	
	YELLOW	MULTICOLOUR 
1200 mm	B0200F0-1200-0001YEZ	B0200F0-1200-0001MCZ
1000 mm	B0200F0-1000-0001YEZ	B0200F0-1000-0001MCZ
750 mm	B0200F0-0750-0001YEZ	B0200F0-0750-0001MCZ
1201-1525	B0200F1-1525-0001YEZ	B0200F1-1525-0001MCZ
1600-2000	B0200F1-2000-0001YEZ	B0200F1-2000-0001MCZ
2100-2500	B0200F1-2500-0001YEZ	B0200F1-2500-0001MCZ



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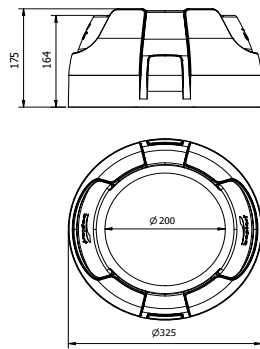


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Base Shield (OPTIONAL, NOT INCLUDED)

Ø200 mm

BP2000-0175-0001BL



B0200F with optional Base Shield.

Sleeve (OPTIONAL, NOT INCLUDED)

Bollard

YELLOW

MULTIColour

1200 mm

BS2250-1005-0001YE

BS2250-1005-0001MC

1000 mm

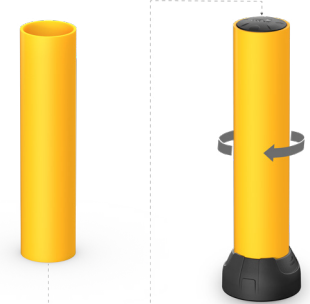
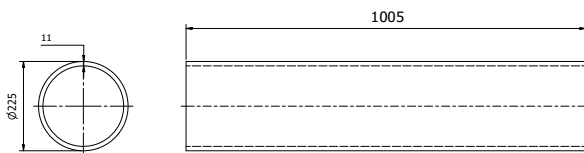
BS2250-0805-0001YE

BS2250-0805-0001MC

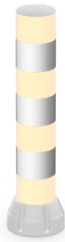
750 mm

BS2250-0555-0001YE

BS2250-0555-0001MC



B0200F with optional Sleeve and Base Shield.

STRIPE [*]			
	Black	White	Yellow
1 STRIPE	PA0300-0200-0001BL	PA0300-0200-0001WH	PA0300-0200-0001YE
2 STRIPES	PA0300-0200-0002BL	PA0300-0200-0002WH	PA0300-0200-0002YE
3 STRIPES	PA0300-0200-0003BL	PA0300-0200-0003WH	PA0300-0200-0003YE
			

^{*} Remark: Stripes cannot be ordered separately

BOLLARD WITH STRIPES INCLUDED			
	Black	White	Yellow
1 STRIPE			
2 STRIPES			
3 STRIPES	BO200F0-1200-3YEBLZ		
			



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