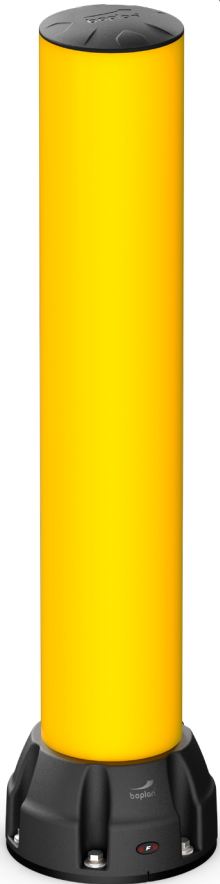


# BO200F BOPLAN BOLLARDS AND HEIGHT LIMITERS


Revision 03: 22 Maart 2023 4:22 PM  
Boplan reference: BO20F0-...



## PRODUCT SPECIFICATIONS

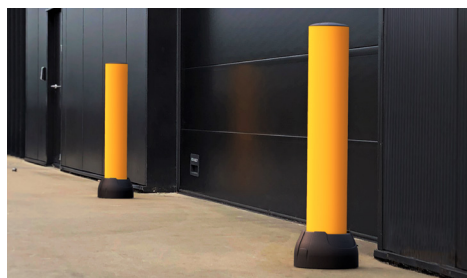
APPLICATION	
Environment	Both robust and flexible, the BO200F with enforced base absorbs medium to heavy impacts in areas where high risks occurs: <ul style="list-style-type: none"> <li>- Nearby machinery and infrastructure e.g. walls, accessways, and corners</li> <li>- Nearby heavy-duty vehicle traffic e.g. trucks, vans, and forklifts</li> <li>- Nearby people operating pushcarts, order picking vehicles and pallet trucks (due to buffering base protection)</li> <li>- Indoor and outdoor environments</li> </ul>
Impact performance	16000 Joule (Eq. to 3,8 ton - 6.5 mph)
MATERIAL	
Tube	Extrilene® - UV resistant - Fire class E <sup>c</sup> - Non conductive - Impervious to most chemicals <sup>**</sup>
Caps	Sustainable elastomer
Base Defender	Sustainable elastomer
Base Shield	Sustainable elastomer
COLORS	
Bollard	Standard: Yellow RAL 1003 Also available in Black RAL 9005, Grey RAL 7042 and Red RAL 3020 (multicolor)
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	Colored reflective stripes providing a high level of visibility.
BASEPLATE	
	Zinc Coated Steel
Material	Steel 37
Coating	Electro plating + Lacquered
Color	Gloss black

<sup>c</sup>Classification according to EN 13501-1:2007 +A1:2009 - Fire classification of construction products and building elements.  
<sup>\*\*</sup>Ask your local sales office for resistance to specific chemicals.

		FIXATIONS	
		ZC (Zinc coated)	SS (Stainless steel)
STANDARD	Concrete screw	 Ø17mm x 135mm	Not available
ALTERNATIVE	Wegde anchor	 Ø18mm (M12) x 130mm	Not available



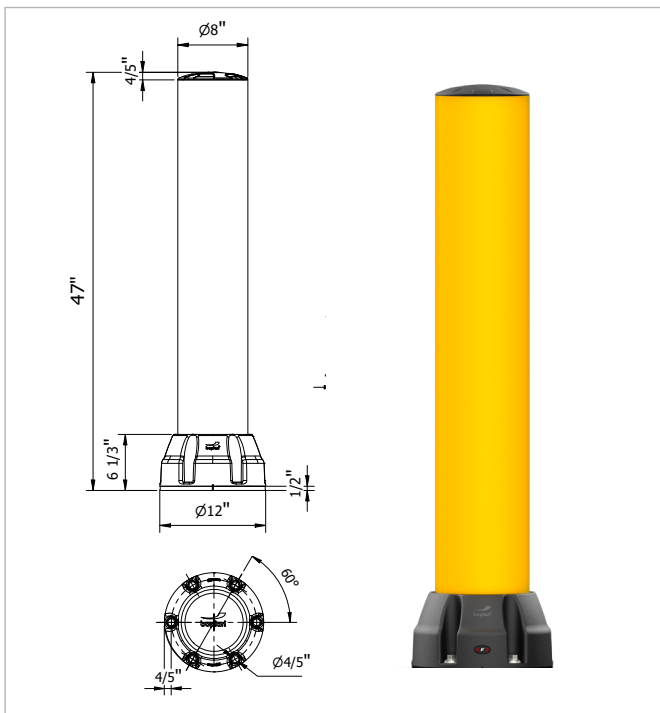
Base Defender with Impact Button









BO 200 Force with optional Base Shield.

## FEATURES AND FUNCTIONALITY - B0200F

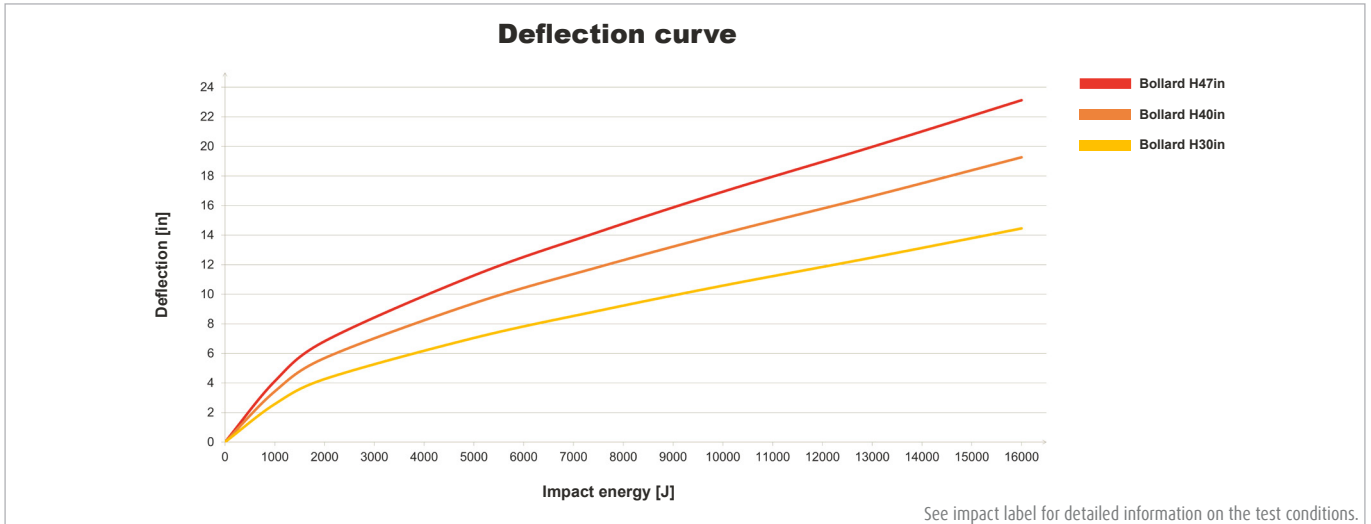
SIZE	
Height	30 in 40 in 47 in 47-60 in 63-79 in 83-98 in
Profile section post	Tube: Ø8 in (0.4 in thick)
Baseplate	Ø12 in (0.4 in thick)
Base Defender	Top: Ø8 in Base: Ø12 in Height: 6 in
Base Shield (optional)	Top: Ø8 in Base: Ø13 in Height: 7 in



REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (in)	minimum 150
Concrete slab dimension around posts (in)	35 (h) x 35 (w) x 28 (d)
Operational temperature	14°F up to 104°F
Water and humidity	<b>Zinc coated:</b> Indoor and outdoor use in most environments.


boplan		IMPACT LABEL FOR SAFETY BARRIERS	
<b>BOPLAN B0200F</b>			
<b>IMPACT RATING</b>			
E50	< 50 kJ		
E40	< 40 kJ		
E30	< 30 kJ		
E25	< 25 kJ		
E20	< 20 kJ		
E15	< 15 kJ		
E12	< 12 kJ		
E10	< 10 kJ		
E7	< 7.5 kJ		
E5	< 5.0 kJ		
E2	< 2.5 kJ		
E1	< 1.0 kJ		
<b>IMPACT RESULTS</b>		<b>SUCCESS CRITERIA</b>	
Deflection: At maximum impact energy  $\alpha_i = 17.7^\circ$ $D_i = 350 \text{ mm} / 13.8 \text{ inch}$		VEHICLE STOPPED ASI (ACCELERATION SEVERITY INDEX) < 0.5	
<b>TEST CONDITIONS</b>		<b>BOPLAN TEST LAB</b>	
TEMPERATURE: 20°C / 68°F IMPACT HEIGHT: 300 mm / 12 Inch → $D_i: 350 \text{ mm} / 13 \text{ 3/4 Inch} \rightarrow \alpha_i: 17.7^\circ$ IMPACT HEIGHT: 600 mm / 24 Inch → $D_i: 621 \text{ mm} / 24 \text{ 1/2 Inch} \rightarrow \alpha_i: 35.4^\circ$ TEST FLOOR: CONCRETE SLAB C25/30 - 150 mm / 6 Inch		Muizelstraat 12 8560 Moorsele Belgium  	
<b>TEST VEHICLE:</b>		Approved by:	
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 1/4 x 45 1/4 Inch CONTACT AREA, STEEL BUMPER WIDTH: 1000 mm / 39 1/4 Inch		<b>TÜV NORD Systems</b> 	
		IL-B0200F-20230926	

## FEATURES AND FUNCTIONALITY - BO200F



## REFERENCE LIST - BO200F

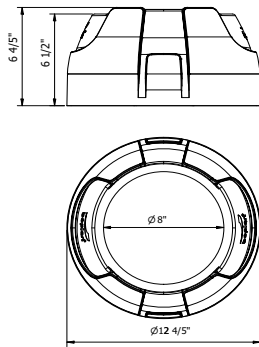
### Free standing Bollard 200 Force

	ZINC COATED (ZC) Non - countersunk	
	YELLOW	MULTICOLOR 
47 in	<a href="#">BO200F0-1200-0001YEZ</a>	BO200F0-1200-0001MCZ
40 in	<a href="#">BO200F0-1000-0001YEZ</a>	BO200F0-1000-0001MCZ
30 in	<a href="#">BO200F0-0750-0001YEZ</a>	BO200F0-0750-0001MCZ
47-60 in	<a href="#">BO200F1-1525-0001YEZ</a>	BO200F1-1525-0001MCZ
63-79 in	<a href="#">BO200F1-2000-0001YEZ</a>	BO200F1-2000-0001MCZ
83-98 in	<a href="#">BO200F1-2500-0001YEZ</a>	BO200F1-2500-0001MCZ

**REFERENCE LIST - B0200F**
**Base Shield (OPTIONAL, NOT INCLUDED)**

Ø8 in

BP2000-0175-0001BL



B0200F with optional Base Shield.

**Sleeve (OPTIONAL, NOT INCLUDED)**

YELLOW

MULTICOLOR

47 in

BS2250-1005-0001YE

BS2250-1005-0001MC ■

40 in

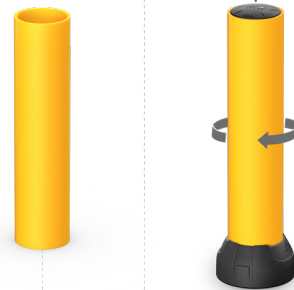
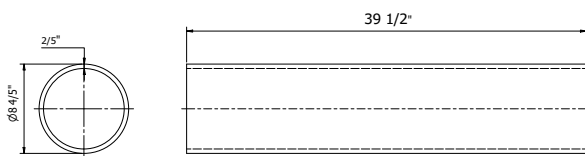
BS2250-0905-0001YE

BS2250-0905-0001MC

30 in

BS2250-0555-0001YE

BS2250-0555-0001MC



B0200F with optional Sleeve and Base Shield.

**REFERENCE LIST - B0200F**

STRIPES *			
	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	B020F0-1200-3YEBLZ		
	