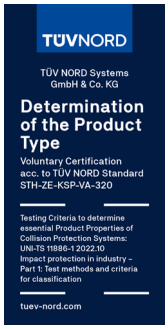
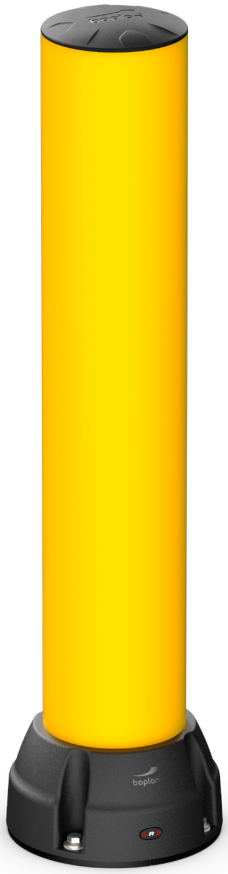
B0200R

BOLLARDS AND HEIGHT RESTRICTORS





Base Defender with Impact Button

PRODUCT SPECIFICATIONS

APPLICATION	
Environment	The B0200R, designed for areas prone to frequent impact risks like gates, access ways, corners, and machinery, ensures robust protection against collisions. Whether used as a free-standing bollard or combined with other Boplan products, like our traffic barrier systems, it showcases versatility in protective applications. With a 200mm tube diameter and a solid large base, it efficiently absorbs collision forces and keeps pallets at a certain distance from the bollard to protect hands and prevent injury. Suitable for both indoor and outdoor environments.
Impact performance	10 200 Joule (Eq. to 3,8 ton - 8,3 km/h) - Following UNI 11886-1
MATERIAL	
Tube	Extrilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**
Cap	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 slided over the bollard.
Stripes	Coloured reflective stripes providing a high level of visibility.

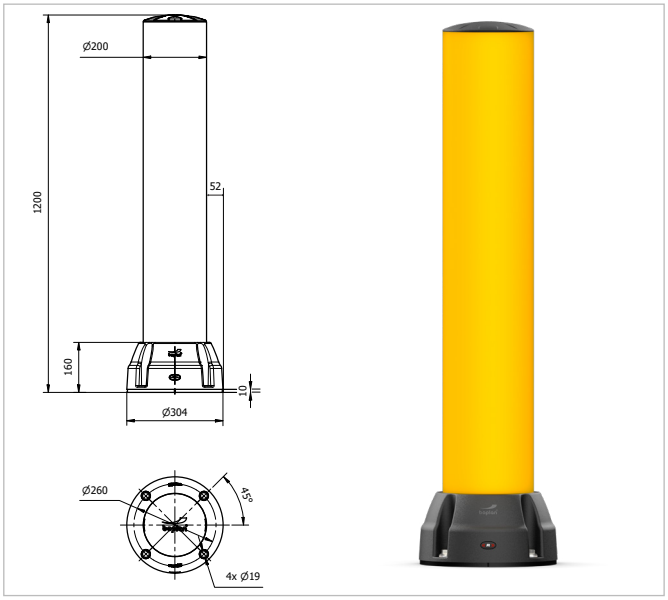
BASEPLATES		
	Zinc Coated Steel	Stainless steel
Material	Steel 37	Stainless steel 304
Coating	Electroplated + Lacquered	No lacquer / No coating
Colour	Mat black	Natural colour

*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	Wedge anchor		Ø18mm (M12) x 130mm	Ø18mm (M12) x 130mm
ALTERNATIVE	Asphalt anchor		Bolt M16 x 50mm + Screw Ø22 x 100mm	Not available

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

SIZE	
Height	450 mm 600 mm 750 mm 1000 mm 1200 mm 1201 - 1525 mm 1600 - 2000 mm 2100 - 2500 mm
Profile section post	Tube: Ø200 mm
Baseplate	Ø300 mm (10 mm thick)
Base Defender	Top: Ø200 mm Base: Ø304 mm Height: 150 mm
Base Shield (optional)	Top: Ø200 mm Base: Ø325 mm Height: 175 mm
Profile section rails (if used)	Rail 88 mm x 88 mm (7.5 mm thick) Rail 50 mm x 70 mm (6.0 mm thick)



REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	700 (h) x 700 (w) x 600 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	**Zinc coated:** Indoor and outdoor use in most environments.* **Stainless steel:** outdoor use or frequent exposure to water and humidity.

boplan IMPACT LABEL SAFETY GATES

BOLLARD 200R

BOPLAN IMPACT CATEGORY	RATING	90°	UNI 11886-1
X	50 kJ		ENERGY CLASS
T	40 kJ		4
F	30 kJ		
R	25 kJ		OPERATIONAL FOOTPRINT
B	20 kJ		W600
L	17kJ		
	15 kJ		
	12 kJ		
	10 kJ	10 200 Joule	ASI CLASS
	7.5kJ		a
	5.0 kJ		
	2.5 kJ		
	0.5 kJ		

*Dynamic impact result: 10 200 Joule

IMPACT TEST RESULTS AT 90°

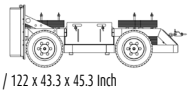
PRODUCT: BO200R0-1200-0001YEZ
Deflection (D)
At maximum impact energy

α = 17,9°
D= 36,8 mm / 25.1 inch

TEST CONDITIONS FOLLOWING UNI 11886-1 AND PAS13: 2017

TEMPERATURE: 20°C / 68°F
IMPACT MIDDLE OF POST
IMPACT HEIGHT: 300 mm / 47.2 Inch -> D: 368.8 mm / 25.1 Inch -> α: 17.9°
TEST FLOOR: CONCRETE SLAB C25/30 - 150 mm / 6 Inch

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

BOPLAN TEST CENTRE

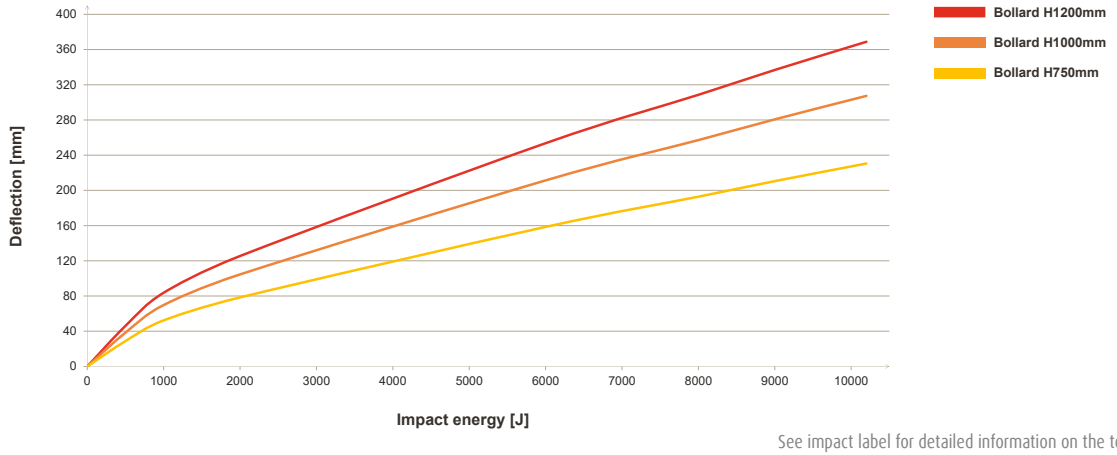
Muizelstraat 12
8560 Moorsele
Belgium

Approved by:
TÜV NORD Systems

* IMPACT VALUE ACCOUNTING FOR BARRIER DEFORMATION DURING IMPACT

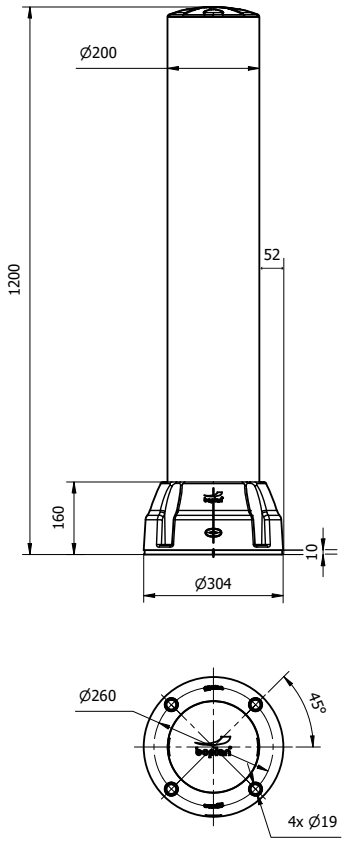
IL-BO200R-20250404

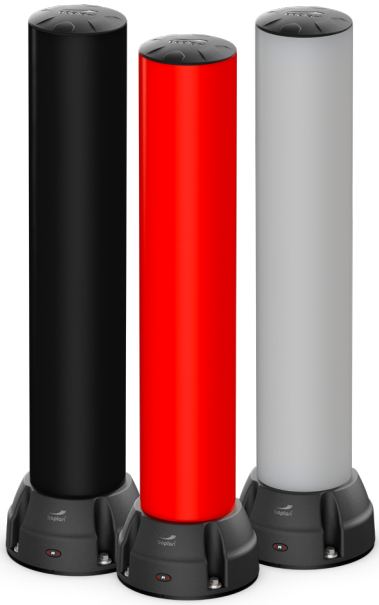
Deflection curve



See impact label for detailed information on the test conditions.

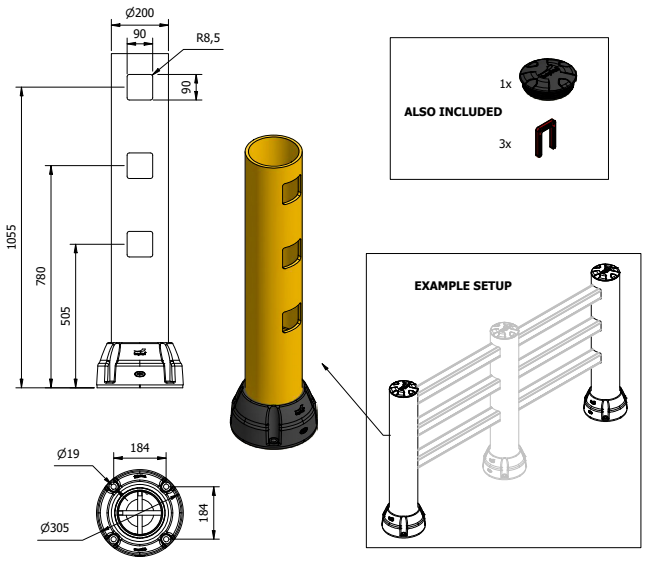
	ZINC COATED (ZC)		STAINLESS STEEL (SS)	
	YELLOW	MULTICOLOUR ■□■	YELLOW	MULTICOLOUR ■□■
450 mm	BO200R0-0450-0001YEZ	BO200R0-0450-0001MCZ	BO200R0-0450-0001YES	BO200R0-0450-0001MCS
600 mm	BO200R0-0600-0001YEZ	BO200R0-0600-0001MCZ	BO200R0-0600-0001YES	BO200R0-0600-0001MCS
750 mm	BO200R0-0750-0001YEZ	BO200R0-0750-0001MCZ	BO200R0-0750-0001YES	BO200R0-0750-0001MCS
1000 mm	BO200R0-1000-0001YEZ	BO200R0-1000-0001MCZ	BO200R0-1000-0001YES	BO200R0-1000-0001MCS
1200 mm	BO200R0-1200-0001YEZ	BO200R0-1200-0001MCZ	BO200R0-1200-0001YES	BO200R0-1200-0001MCS
1201 - 1525 mm	BO200R1-1525-0001YEZ	BO200R1-1525-0001MCZ	BO200R1-1525-0001YES	BO200R1-1525-0001MCS
1600 - 2000 mm	BO200R1-2000-0001YEZ	BO200R1-2000-0001MCZ	BO200R1-2000-0001YES	BO200R1-2000-0001MCS
2100 - 2500 mm	BO200R1-2500-0001YEZ	BO200R1-2500-0001MCZ	BO200R1-2500-0001YES	BO200R1-2500-0001MCS



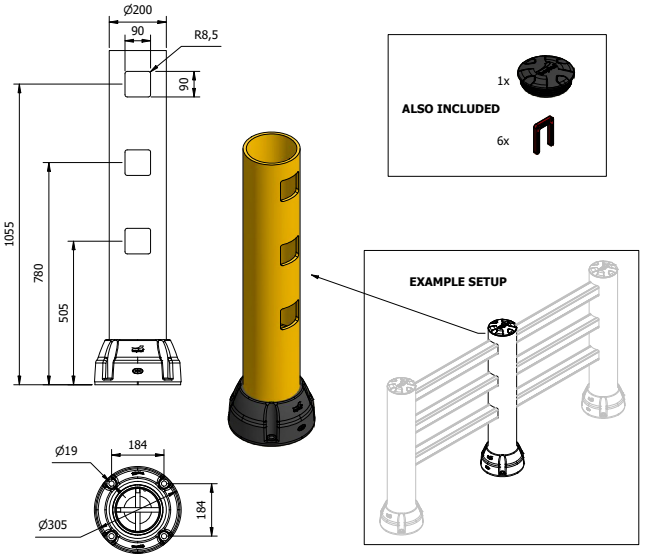


BOLLARD END POSTS - with rails 88			
		ENDPOST (EP)	MIDPOST (MP)
		ZINC COATED (ZC)	ZINC COATED (ZC)
		YELLOW	YELLOW
2R	1200 mm	BO200R0-1200-E208YEZ	BO200R0-1200-M208YEZ
	1201 - 1525 mm	BO200R1-1525-E208YEZ	BO200R1-1525-M208YEZ
3R	1200 mm	BO200R0-1200-E308YEZ	BO200R0-1200-M308YEZ
	1201 - 1525 mm	BO200R1-1525-E308YEZ	BO200R1-1525-M308YEZ

End post 3R

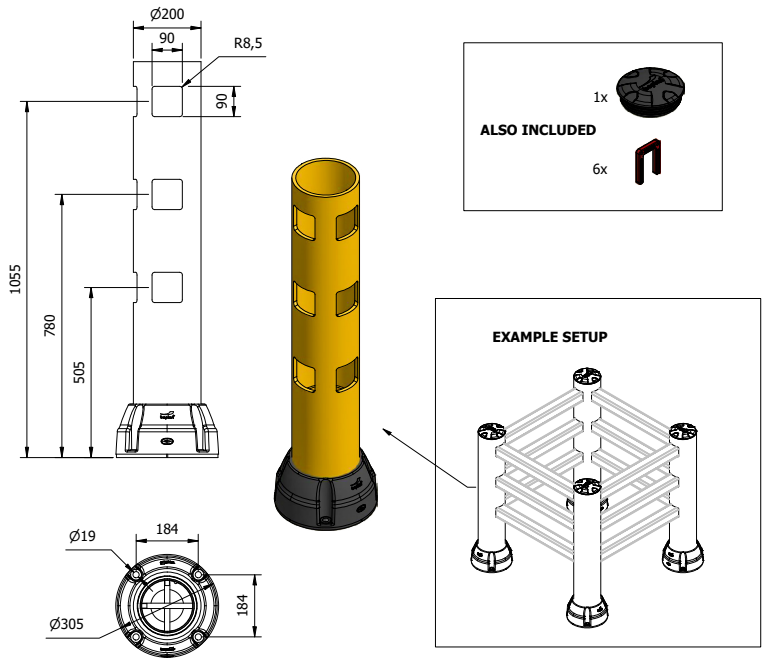


Mid post 3R



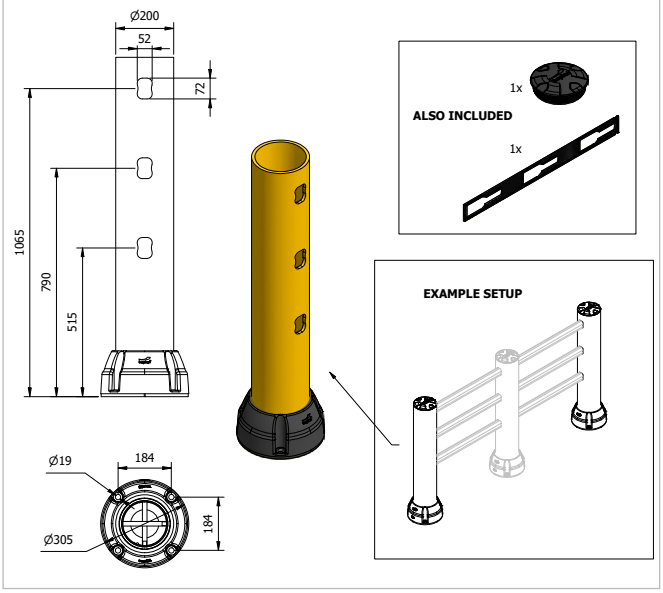
BOLLARD CORNER POSTS (90/45°) - with rails 88			
		CORNER POST 90° (CP)	CORNER POST 45° (CP)
		ZINC COATED (ZC) YELLOW	ZINC COATED (ZC) YELLOW
2R	1200 mm	BO200R0-1200-C298YEZ	BO200R0-1200-C248YEZ
	1201 - 1525 mm	BO200R1-1525-C298YEZ	BO200R1-1525-C248YEZ
3R	1200 mm	BO200R0-1200-C398YEZ	BO200R0-1200-C348YEZ
	1201 - 1525 mm	BO200R1-1525-C398YEZ	BO200R1-1525-C348YEZ

Corner post 90° 3R

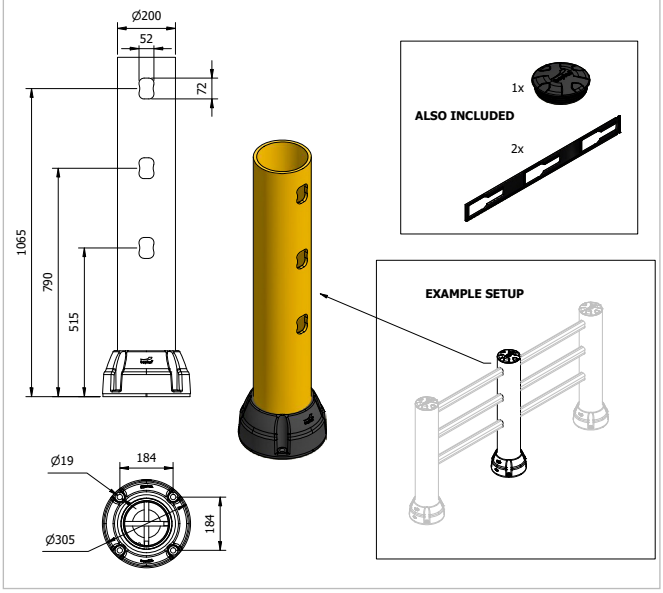


BOLLARD POSTS (EP/MP) - with handrails R50						
			ENDPOST (EP)		MIDPOST (MP)	
			ZINC COATED (ZC)	STAINLESS STEEL (SS)	ZINC COATED (ZC)	STAINLESS STEEL (SS)
			YELLOW	YELLOW	YELLOW	YELLOW
HP	2R	1200 mm	BO200R0-1200-E205HYZ	BO200R0-1200-E205HYS	BO200R0-1200-M205HYZ	BO200R0-1200-M205HYS
		1201 - 1525 mm	BO200R1-1525-E205HYZ	BO200R1-1525-E205HYS	BO200R1-1525-M205HYZ	BO200R1-1525-M205HYS
		1600 - 2000 mm	BO200R1-2000-E205HYZ	BO200R1-2000-E205HYS	BO200R1-2000-M205HYZ	BO200R1-2000-M205HYS
		2100 - 2500 mm	BO200R1-2500-E205HYZ	BO200R1-2500-E205HYS	BO200R1-2500-M205HYZ	BO200R1-2500-M205HYS
	3R	1200 mm	BO200R0-1200-E305YEZ	BO200R0-1200-E305YES	BO200R0-1200-M305YEZ	BO200R0-1200-M305YES
		1201 - 1525 mm	BO200R1-1525-E305YEZ	BO200R1-1525-E305YES	BO200R1-1525-M305YEZ	BO200R1-1525-M305YES
		1600 - 2000 mm	BO200R1-2000-E305YEZ	BO200R1-2000-E305YES	BO200R1-2000-M305YEZ	BO200R1-2000-M305YES
		2100 - 2500 mm	BO200R1-2500-E305YEZ	BO200R1-2500-E305YES	BO200R1-2500-M305YEZ	BO200R1-2500-M305YES
TB	2R	1200 mm	BO200R0-1200-E205TYZ	BO200R0-1200-E205TYS	BO200R0-1200-M205TYZ	BO200R0-1200-M205TYS
		1201 - 1525 mm	BO200R1-1525-E205TYZ	BO200R1-1525-E205TYS	BO200R1-1525-M205TYZ	BO200R1-1525-M205TYS
		1600 - 2000 mm	BO200R1-2000-E205TYZ	BO200R1-2000-E205TYS	BO200R1-2000-M205TYZ	BO200R1-2000-M205TYS
		2100 - 2500 mm	BO200R1-2500-E205TYZ	BO200R1-2500-E205TYS	BO200R1-2500-M205TYZ	BO200R1-2500-M205TYS

End post 3R

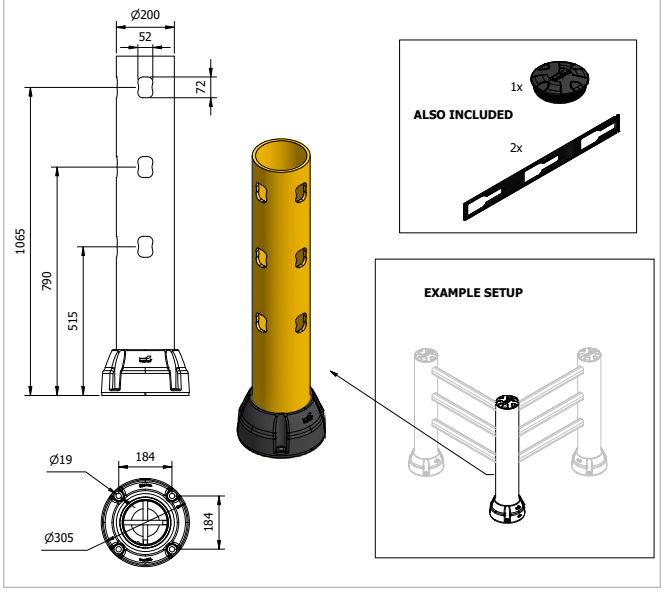


Mid post 3R

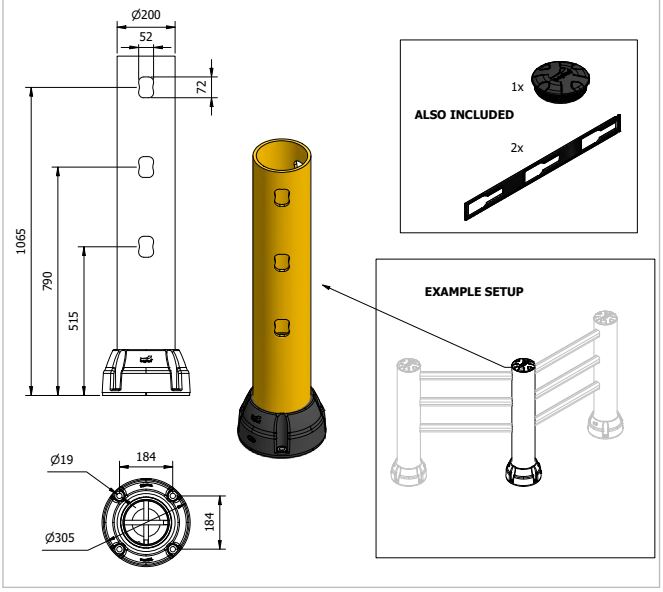


BOLLARD CORNER POSTS (90°/45°) - with handrails R50						
			CORNER POST 90° (EP)		CORNER POST 45° (EP)	
			ZINC COATED (ZC) YELLOW	STAINLESS STEEL (SS) YELLOW	ZINC COATED (ZC) YELLOW	STAINLESS STEEL (SS) YELLOW
HP	2R	1200 mm	BO200R0-1200-C295HYZ	BO200R0-1200-C295HYS	BO200R0-1200-C245HYZ	BO200R0-1200-C245HYS
		1201 - 1525 mm	BO200R1-1525-C295HYZ	BO200R1-1525-C295HYS	BO200R1-1525-C245HYZ	BO200R1-1525-C245HYS
		1600 - 2000 mm	BO200R1-2000-C295HYZ	BO200R1-2000-C295HYS	BO200R1-2000-C245HYZ	BO200R1-2000-C245HYS
		2100 - 2500 mm	BO200R1-2500-C295HYZ	BO200R1-2500-C295HYS	BO200R1-2500-C245HYZ	BO200R1-2500-C245HYS
	3R	1200 mm	BO200R0-1200-C395YEZ	BO200R0-1200-C395YES	BO200R0-1200-C345YEZ	BO200R0-1200-C345YES
		1201 - 1525 mm	BO200R1-1525-C395YEZ	BO200R1-1525-C395YES	BO200R1-1525-C345YEZ	BO200R1-1525-C345YES
		1600 - 2000 mm	BO200R1-2000-C395YEZ	BO200R1-2000-C395YES	BO200R1-2000-C345YEZ	BO200R1-2000-C345YES
		2100 - 2500 mm	BO200R1-2500-C395YEZ	BO200R1-2500-C395YES	BO200R1-2500-C345YEZ	BO200R1-2500-C345YES
TB	2R	1200 mm	BO200R0-1200-C295TYZ	BO200R0-1200-C295TYS	BO200R0-1200-C245TYZ	BO200R0-1200-C245TYS
		1201 - 1525 mm	BO200R1-1525-C295TYZ	BO200R1-1525-C295TYS	BO200R1-1525-C245TYZ	BO200R1-1525-C245TYS
		1600 - 2000 mm	BO200R1-2000-C295TYZ	BO200R1-2000-C295TYS	BO200R1-2000-C245TYZ	BO200R1-2000-C245TYS
		2100 - 2500 mm	BO200R1-2500-C295TYZ	BO200R1-2500-C295TYS	BO200R1-2500-C245TYZ	BO200R1-2500-C245TYS

Corner post 90° 3R

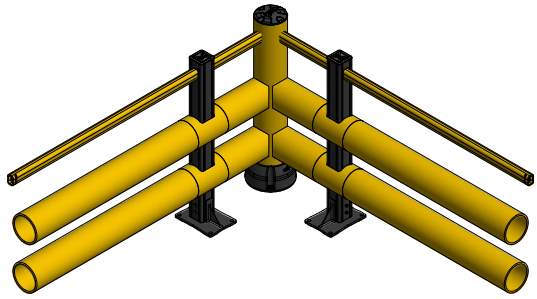


Corner post 45° 3R

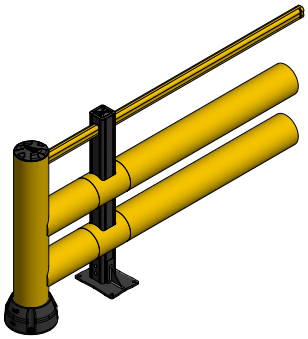


BOLLARD POSTS (Corner 90°-45°/EP/MP) - with handrails R50						
			CORNER POST 90° (EP)	CORNER POST 45° (EP)	END POST	MID POST
			ZINC COATED (ZC) YELLOW			
DP	1R	1200 mm	BO200R1-1525-C2195DYZ	BO200R0-1200-C145DYZ	BO200R0-1200-E105DYZ	BO200R1-2000-M105DYZ
		1201 - 1525 mm	BO200R0-1200-C195DYZ	BO200R1-1525-C145DYZ	BO200R1-2000-E105DYZ	BO200R0-1200-M105DYZ
		1600 - 2000 mm	BO200R1-2000-C195DYZ	BO200R1-2000-C145DYZ	BO200R1-1525-E105DYZ	BO200R1-2500-M105HYZ
		2100 - 2500 mm	BO200R1-2500-C195DYZ	BO200R1-2500-C145DYZ	BO200R1-2500-E105DYZ	BO200R1-1525-M205DYZ

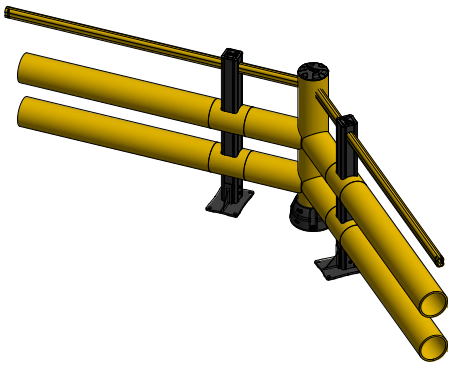
Corner post 90° 1R



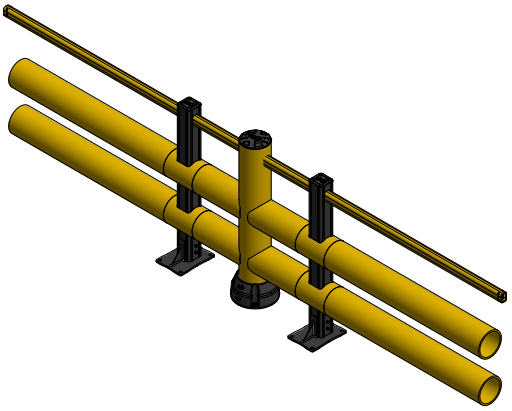
End post 1R



Corner post 45° 1R

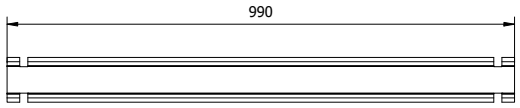


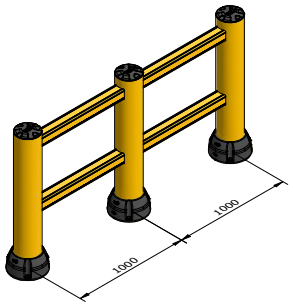
Mid post 1R



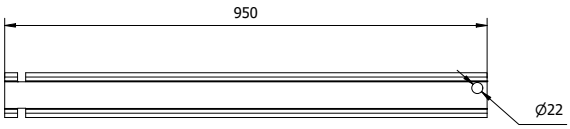
BOLLARD RAILS (R88)				
		Standard rail	Non - Standard rail	
		1000 mm	300-1200 mm	1201-1750 mm
2R (R88)	Rail - YE	BR1880-1000-S200YE	BR1881-1200-S200YE	BR1881-1750-S200YE
	Corner rail 90° - 1C 45° - YE	BR1880-1000-S21CYE	BR1881-1200-S21CYE	BR1881-1750-S21CYE
	Corner rail 90° - 2C 45° - YE	BR1880-1000-S22CYE	BR1881-1200-S22CYE	BR1881-1750-S22CYE
3R (R88)	Rail - YE	BR1880-1000-S300YE	BR1881-1200-S300YE	BR1881-1750-S300YE
	Corner rail 90° - 1C 45° - YE	BR1880-1000-S31CYE	BR1881-1200-S31CYE	BR1881-1750-S31CYE
	Corner rail 90° - 2C 45° - YE	BR1880-1000-S32CYE	BR1881-1200-S32CYE	BR1881-1750-S32CYE

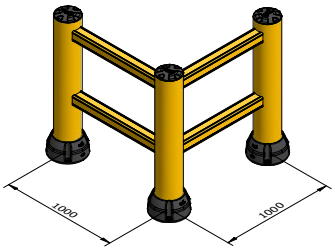
STANDARD RAIL



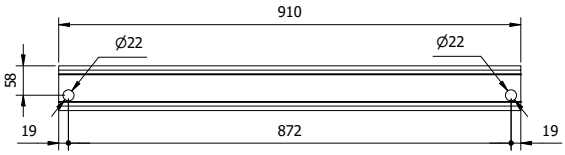


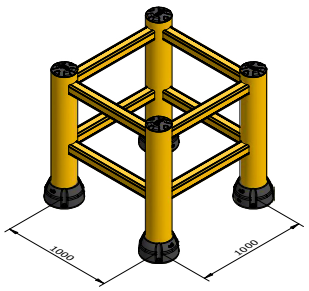
STANDARD CORNER RAIL 90° - 1 X CORNER



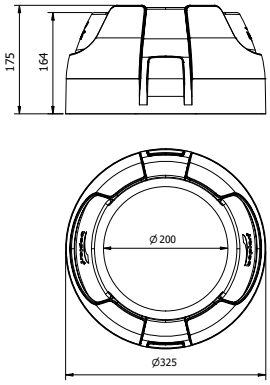


STANDARD CORNER RAIL 90° - 2 X CORNER



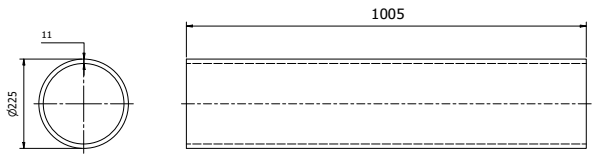


Base Shield (OPTIONAL, NOT INCLUDED)	
Ø200 mm	BP2000-0175-0001BL



BO200R 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



BO200R with optional Sleeve and Base Shield.

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			