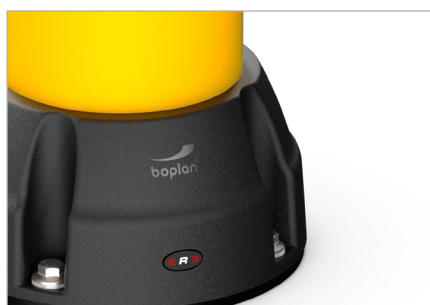
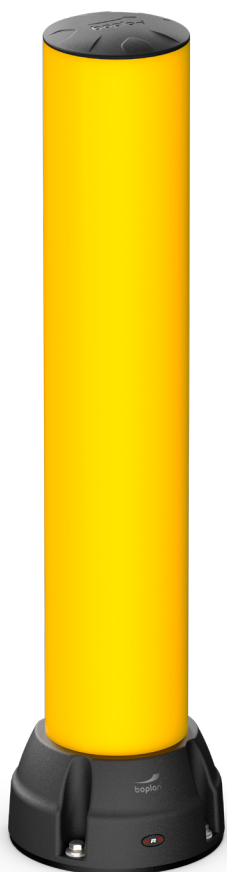


BO200R

BOLLARDS AND HEIGHT RESTRICTORS

Revision: 10 February 2025 11:03 AM

Boplan reference: BO200R...






Base Defender with Impact Button

PRODUCT SPECIFICATIONS

| APPLICATION | | |
|--------------------|---|-------------------------|
| Environment | The BO200R, 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) | |
| 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 slid 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.

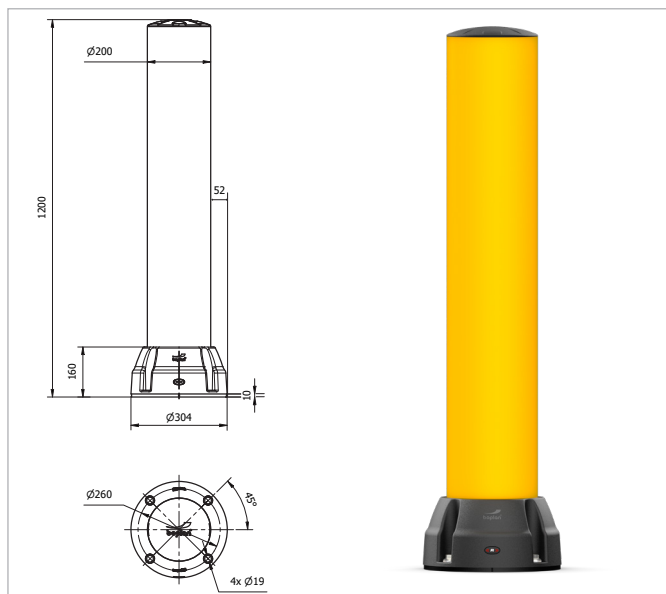
^{**}Ask your local sales office for resistance to specific chemicals.

| FIXATIONS | | | | |
|-------------|----------------|---|---|---|
| | | ZC (Zinc coated) | | SS (Stainless steel) |
| STANDARD | Concrete screw |  | Ø17mm x 130mm  | Not available |
| | 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.

FEATURES AND FUNCTIONALITY - B0200R

| 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 (11 mm thick) |
| 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) |

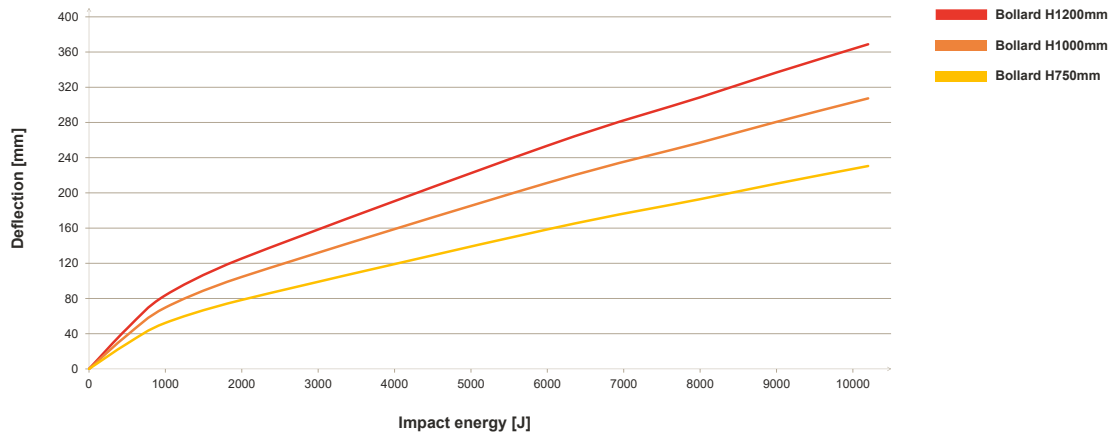


| REQUIREMENTS | |
|---|--|
| Concrete quality | minimum C25/30 |
| Concrete floor plate thickness (mm) | minimum 150 mm |
| Concrete slab dimension around posts (mm) | 700 (h) x 700 (w) x 600 (d) |
| Operational temperature | -10°C up to +40°C |
| Water and humidity | Zinc coated: Indoor and outdoor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

| boplan IMPACT LABEL FOR SAFETY BARRIERS | |
|--|---|
| BOPLAN B0200R |  |
| IMPACT RATING | |
| 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 |
| | 10,2 kJ |
| IMPACT RESULTS Deflection: At maximum impact energy |  $\alpha = 17,9^\circ$ D = 368.8 mm / 25.1 inch |
| TEST CONDITIONS TEMPERATURE: 20°C / 68°F 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 | SUCCESS CRITERIA VEHICLE STOPPED ASH (ACCELERATION SEVERITY INDEX) < 0.5 |
| 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 1/4 x 45 1/4 inch CONTACT AREA, STEEL BUMPER WIDTH: 1000 mm / 39 1/4 inch | BOPLAN TEST CENTRE Muizelstraat 12 8560 Moorsele Belgium  |
| IL-B0200R-20240209 | |

FEATURES AND FUNCTIONALITY - B0200R



Deflection curve

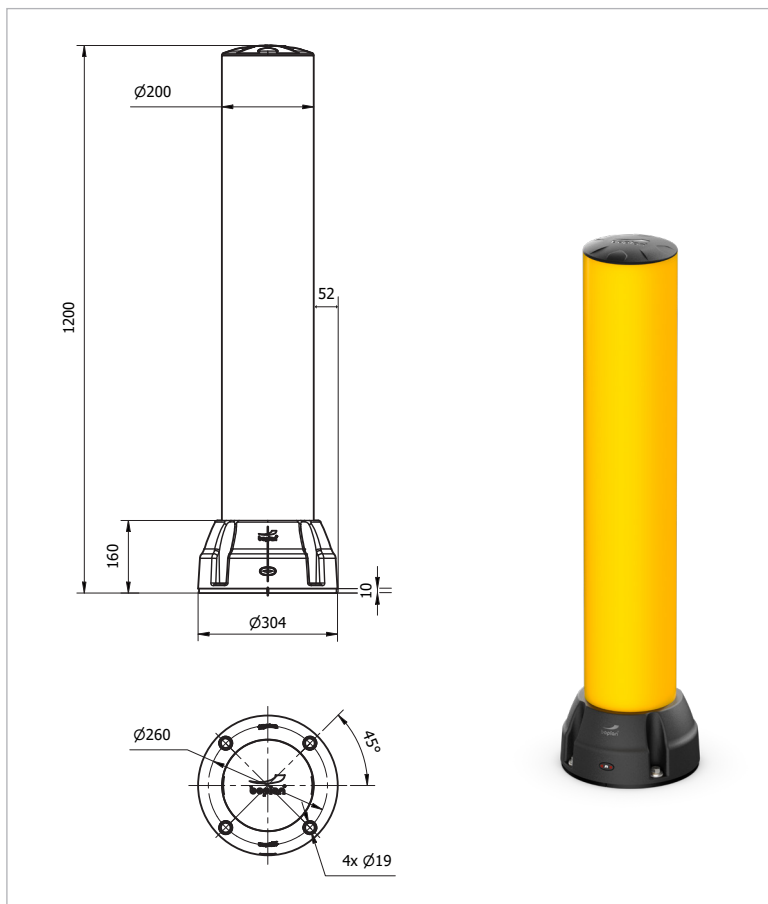


See impact label for detailed information on the test conditions.



REFERENCE LIST - BO200R

| | 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 |

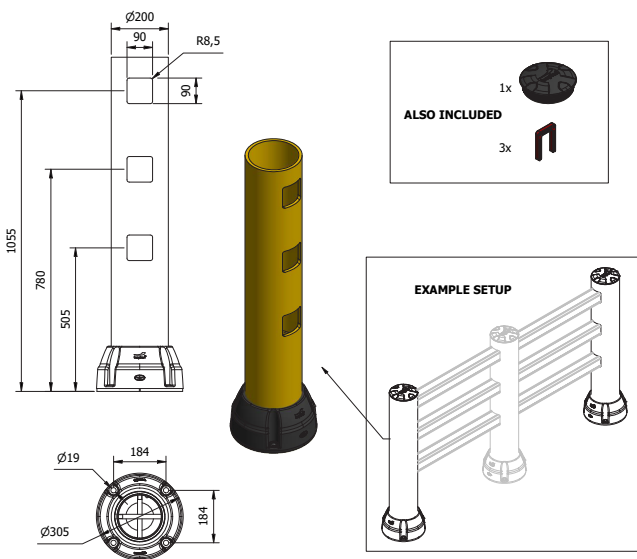


REFERENCE LIST BO200R

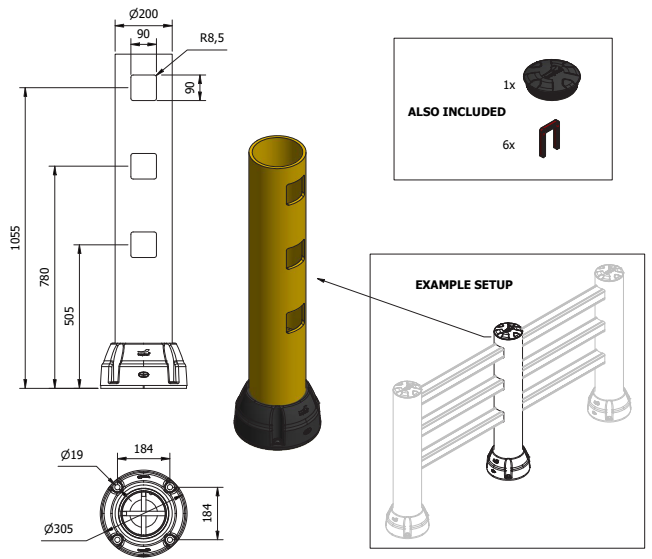
BOLLARD END POSTS - with rails 88

| | 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

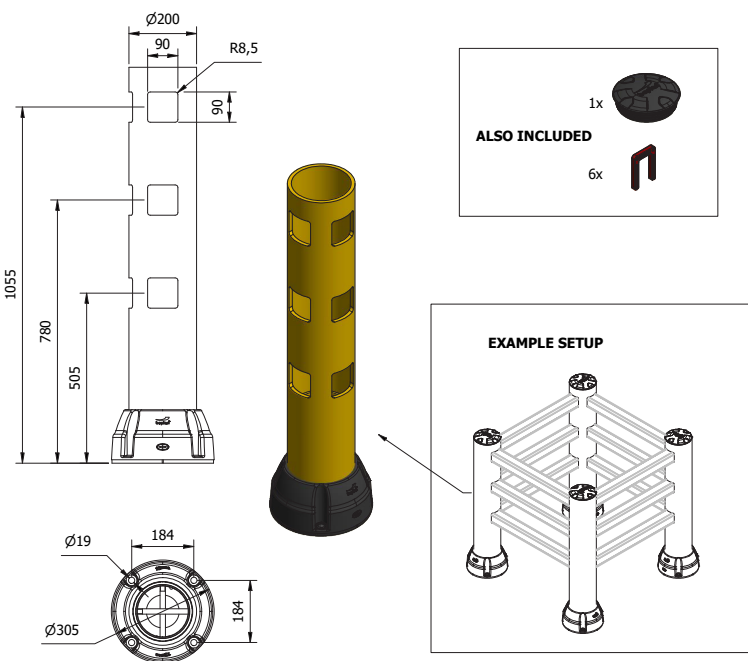


REFERENCE LIST B0200R

BOLLARD CORNER POSTS (90/45°) - with rails 88

| | CORNER POST 90° (CP) | | CORNER POST 45° (CP) |
|----|----------------------|----------------------|----------------------|
| | ZINC COATED (ZC) | | ZINC COATED (ZC) |
| | YELLOW | | YELLOW |
| 2R | 1200 mm | B0200R0-1200-C298YEZ | B0200R0-1200-C248YEZ |
| | 1201 - 1525 mm | B0200R1-1525-C298YEZ | B0200R1-1525-C248YEZ |
| 3R | 1200 mm | B0200R0-1200-C398YEZ | B0200R0-1200-C348YEZ |
| | 1201 - 1525 mm | B0200R1-1525-C398YEZ | B0200R1-1525-C348YEZ |

Corner post 90° 3R

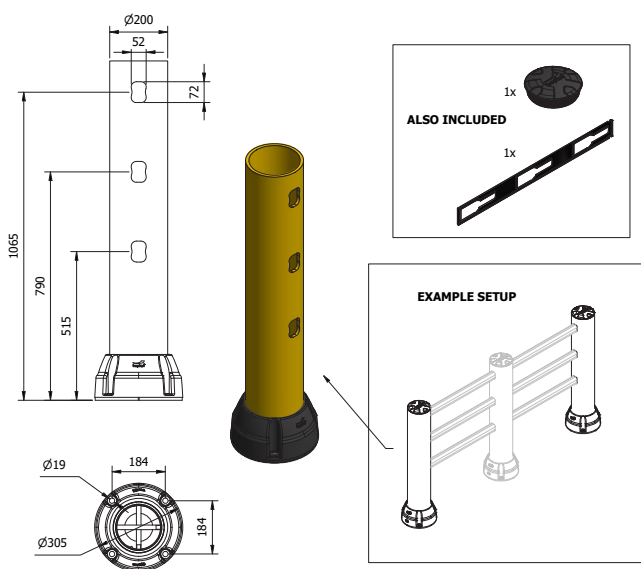


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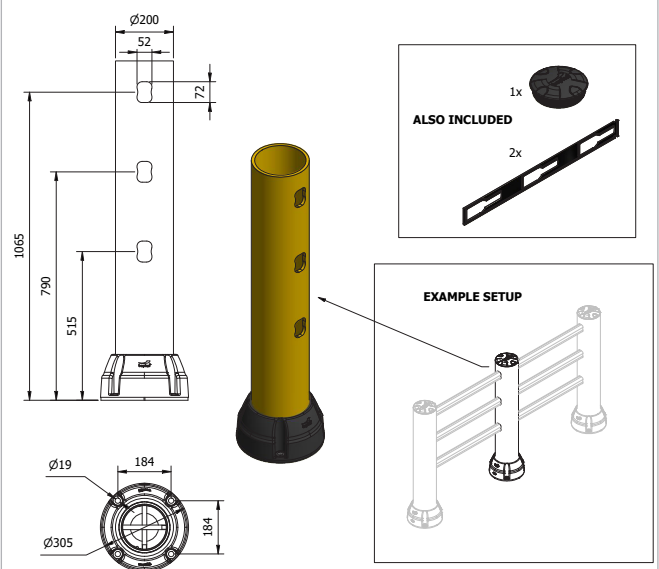
BOLLARD POSTS (EP/MP) - with handrails R50

| | | ENDPOST (EP) | | MIDPOST (MP) | | |
|----|----|------------------|-----------------------------|----------------------|-----------------------------|----------------------|
| | | ZINC COATED (ZC) | STAINLESS STEEL (SS) | ZINC COATED (ZC) | STAINLESS STEEL (SS) | |
| | | YELLOW | YELLOW | YELLOW | YELLOW | |
| HP | 2R | 1200 mm | <u>BO200R0-1200-E205HYZ</u> | BO200R0-1200-E205HYS | <u>BO200R0-1200-M205HYZ</u> | 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

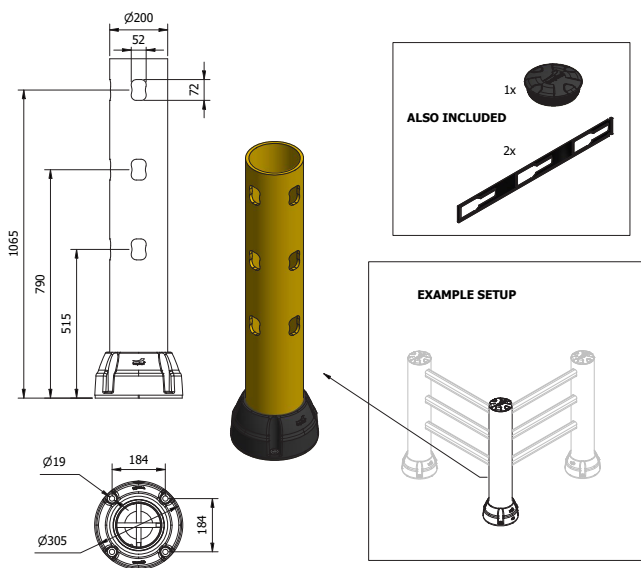


REFERENCE LIST - BO200R

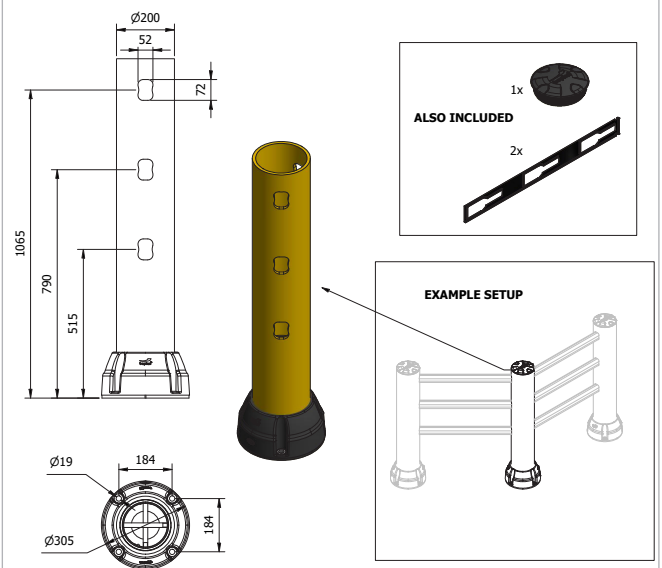
BOLLARD CORNER POSTS (90°/45°) - with handrails R50

| | | CORNER POST 90° (EP) | | CORNER POST 45° (EP) | | |
|----|----|----------------------|--------------------------------------|----------------------|--------------------------------------|----------------------|
| | | ZINC COATED (ZC) | STAINLESS STEEL (SS) | ZINC COATED (ZC) | STAINLESS STEEL (SS) | |
| | | YELLOW | YELLOW | YELLOW | 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

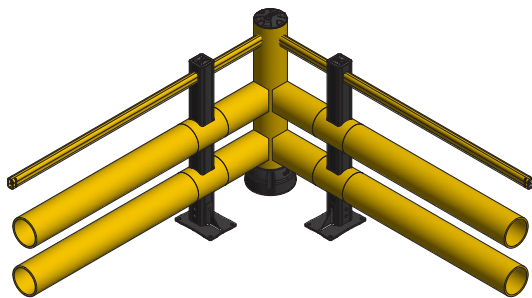


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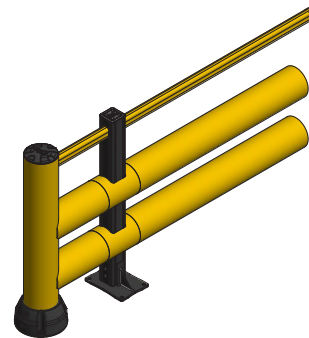
BOLLARD POSTS (Corner 90°-45°/EP/MP) - with handrails R50

| | | CORNER POST 90° (EP) | CORNER POST 45° (EP) | END POST | MID POST |
|----|----------------|----------------------|-----------------------|----------------------|----------------------|
| | | ZINC COATED (ZC) | | | |
| | | YELLOW | | | |
| DP | 1200 mm | B0200R0-1200-C145DYZ | B0200R1-1525-C2195DYZ | B0200R0-1200-E105DYZ | B0200R1-2000-M105DYZ |
| | 1201 - 1525 mm | B0200R1-1525-C145DYZ | B0200R0-1200-C195DYZ | B0200R1-2000-E105DYZ | B0200R0-1200-M105DYZ |
| | 1600 - 2000 mm | B0200R1-2000-C145DYZ | B0200R1-2000-C195DYZ | B0200R1-1525-E105DYZ | B0200R1-2500-M105HYZ |
| | 2100 - 2500 mm | B0200R1-2500-C145DYZ | B0200R1-2500-C195DYZ | B0200R1-2500-E105DYZ | B0200R1-1525-M205DYZ |

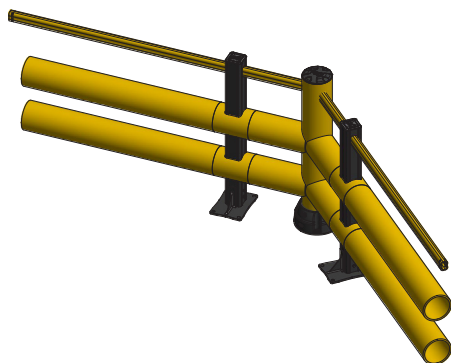
Corner post 90° 1R



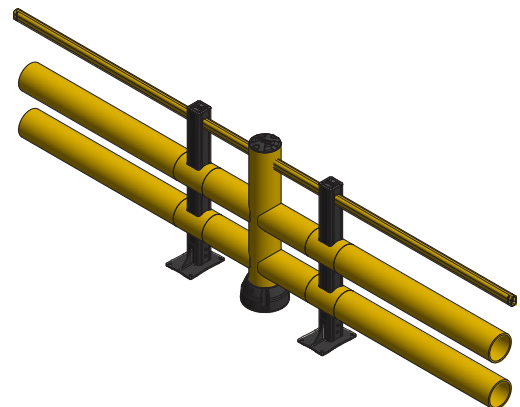
End post 1R



Corner post 45° 1R



Mid post 1R

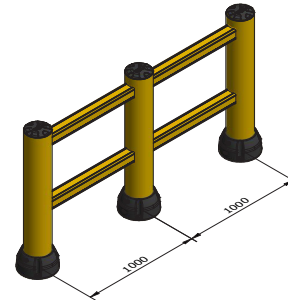
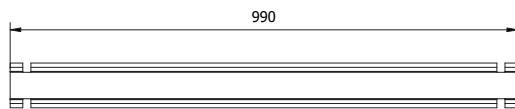


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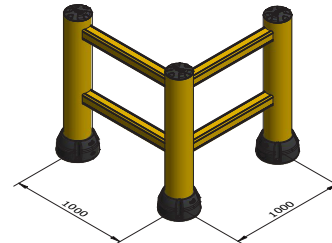
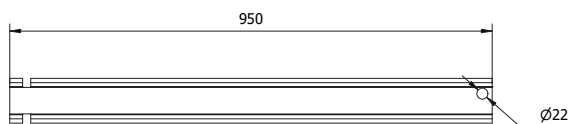
BOLLARD RAILS (R88)

| | | 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 |

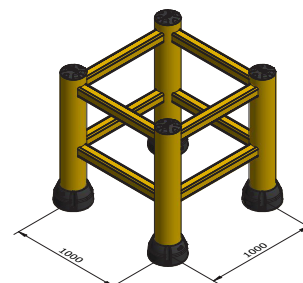
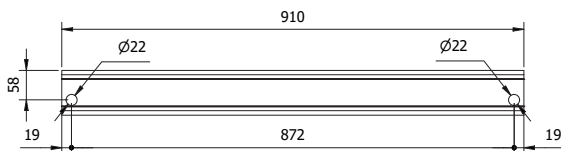
STANDARD RAIL



STANDARD CORNER RAIL 90° - 1 X CORNER



STANDARD CORNER RAIL 90° - 2 X CORNER

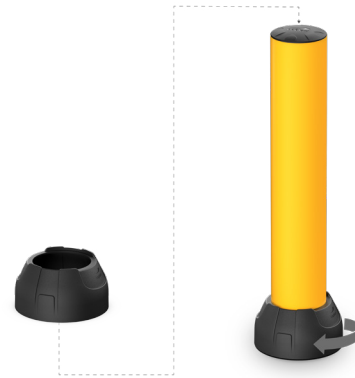
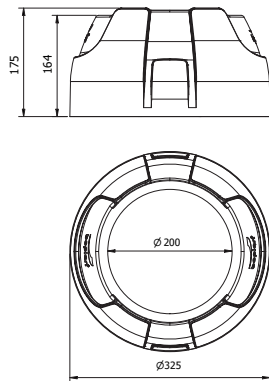


REFERENCE LIST - B0200R

Base Shield (OPTIONAL, NOT INCLUDED)

Ø200 mm

BP2000-0175-0001BL



B0200R with optional Base Shield.

Sleeve (OPTIONAL, NOT INCLUDED)

Bollard

YELLOW

MULTICOLOUR



1200 mm

BS2250-1005-0001YE

BS2250-1005-0001MC

1000 mm

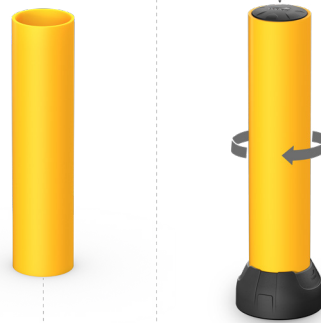
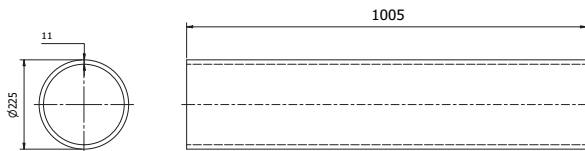
BS2250-0805-0001YE

BS2250-0805-0001MC

750 mm

BS2250-0555-0001YE

BS2250-0555-0001MC




B0200R with optional Sleeve and Base Shield.

REFERENCE LIST - B0200R

| 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 | | | |
| |  | | |