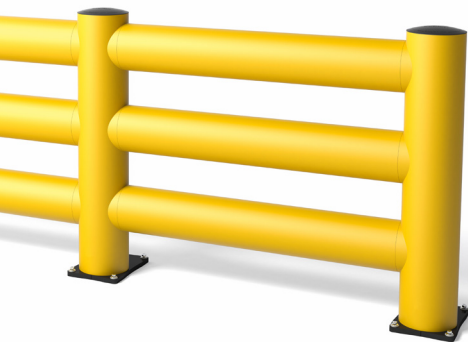


TB SUPER TRIPLE

SAFETY BARRIERS




Revision: 30 May 2024 5:04 PM
Boplan reference: TS400...



PRODUCT SPECIFICATIONS

| APPLICATION | | | |
|---------------------------|--|--------------------------|-------------------------|
| Environment | The TB Super Triple is the heaviest traffic barrier in the TB series, offering extra-tough collision protection against heavy traffic with a high-impact risk. | | |
| Impact performance at 90° | POST: 44500 Joule (Eq. to 10 ton - 10,7 km/h) | | |
| | RAIL: 48300 Joule (Eq. to 10 ton - 11,2 km/h) | | |
| MATERIAL | | | |
| Posts and rails | Extrilene® - UV resistant - Fire class E ⁺ - Non conductive - Impervious to most chemicals** | | |
| Caps | Sustainable elastomer | | |
| STANDARD COLOURS | | | |
| End post | Yellow RAL 1003 | | |
| Mid post | Yellow RAL 1003 | | |
| Impact tube | Yellow RAL 1003 | | |
| BASEPLATES | | | |
| | Steel | Zinc Coated Steel | Stainless steel |
| Material | Steel 37 | Steel 37 | Stainless steel 304 |
| Coating | Lacquered | Electroplated + Laquered | No lacquer / No coating |
| Colour | High gloss black | 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 | Wedge anchor |  Ø18mm (M12) x 130mm | Ø18mm (M12) x 130mm |
| | Anchor rod (Chemical) |  M16 x 120mm + Chemical resin | M16 x 120mm + Chemical resin |
| ALTERNATIVES | Concrete screw |  Ø17mm x 130mm | Not available |
| | Asphalt anchor |  Bolt M16 x 100mm + Screw Ø22mm | Not available |



FEATURES AND FUNCTIONALITY - TB SUPER TRIPLE

| SIZE | |
|---------------------------|--|
| Height end posts | 1145 mm |
| Height mid post | 1145 mm |
| Profile section tubes | Ø200 mm (11 mm thick) |
| Profile section end posts | Outer tube: Ø250 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick) |
| Profile section mid posts | Outer tube: Ø250 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick) |
| Standard rail length | 1350 mm (other sizes: 750mm - 1750mm) |
| Baseplate | End Post: 275 mm x 375 mm (20 mm thick) Mid Post: 275 mm x 375 mm (20 mm thick) |

| REQUIREMENTS | |
|---|---|
| Concrete quality | minimum C25/30 |
| Concrete floor plate thickness (mm) | minimum 150 mm |
| Concrete slab dimension around posts (mm) | 900 (h) x 900 (w) x 600 (d) |
| Operational temperature | -10°C up to +40°C |
| Water and humidity | Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless Steel: outdoor use or frequent exposure to water and humidity. |

IMPACT LABEL FOR SAFETY BARRIERS

| BOPLAN TB 400 SUPER TRIPLE | | |
|-----------------------------------|---------|---------|
| IMPACT RATING | 45° | 90° |
| E80 > 80 kJ | | |
| E60 > 60 kJ | 68,3 kJ | |
| E50 > 50 kJ | | |
| E40 > 40 kJ | | 48,3 kJ |
| E35 > 35 kJ | | |
| E30 > 30 kJ | | |
| E25 > 25 kJ | | |
| E20 > 20 kJ | | |
| E15 > 15 kJ | | |
| E10 > 10 kJ | | |
| E5 > 5,0 kJ | | |
| E2 > 2,5 kJ | | |

TEST CONDITIONS

TEMPERATURE: 20°C / 68°F

IMPACT HEIGHT: 650 mm / 25 2/3 inch

IMPACT ANGLE: 90°

TEST FLOOR: CONCRETE SLAB C25/30 - 160 mm / 6 inch

MANUFACTURER ANCHOR PULL OUT: 17kN

TEST VEHICLE

WEIGHT: 2300 KG / 5070.63 lbs

TYPE: COMMERCIAL FORK LIFT

SIZE (L x W x H): 1890x1020x1970 mm / 74x40x78 Inch

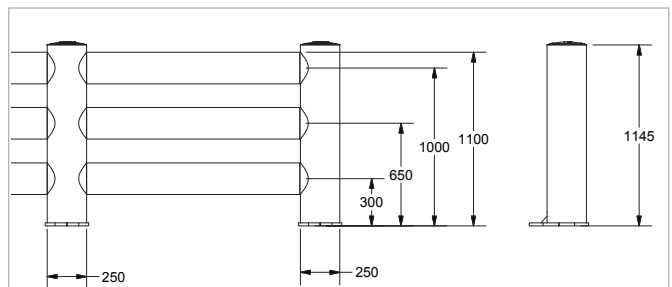
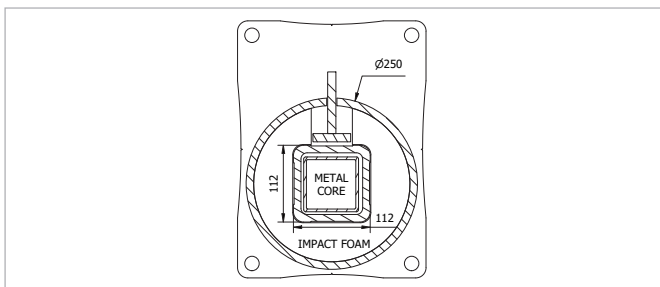
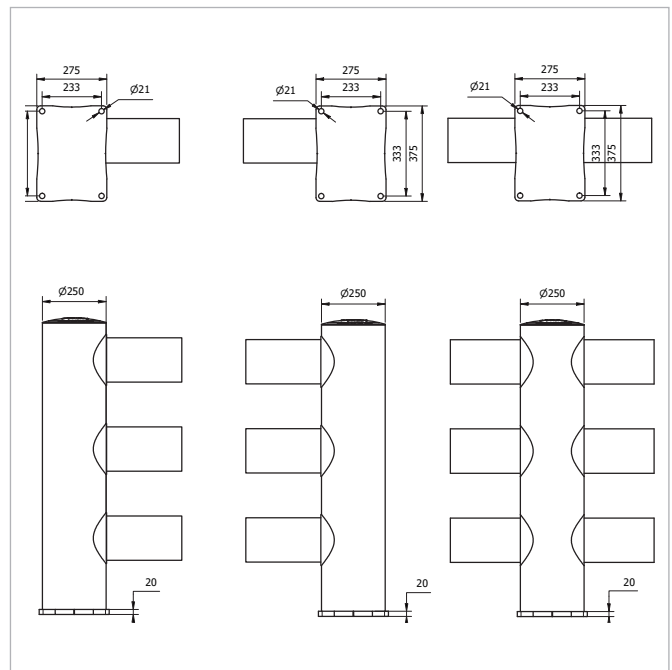
CONTACT AREA: STEEL BUMPER WIDTH: 600 mm / 24 Inch

ACCREDITED TEST LABORATORY

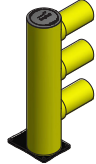
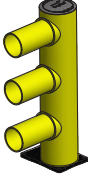
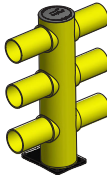
620 Route des Fromentaux
01500 Saint-Maurice-de-Rémens
01360 Bèlignieux
France

SUCCESS CRITERIA: VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) <0.5

IL-TS400-20230705

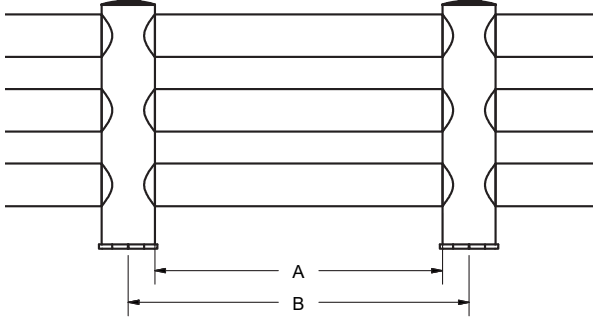


REFERENCE LIST - TB SUPER TRIPLE

| POSTS | | |
|--|---|---|
| End post Left End post Left - ZC End post Left - SS | TS4000-0001-EPLYE TS4000-0001-EPLYEZ TS4000-0001-EPLYES |  |
| End post Right End post Right - ZC End post Right - SS | TS4000-0001-EPRYE TS4000-0001-EPRYEZ TS4000-0001-EPRYES |  |
| Mid post Mid post - ZC Mid post - SS | TS4000-0001-MPYE TS4000-0001-MPYEZ TS4000-0001-MPYES |  |

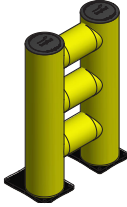
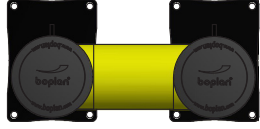
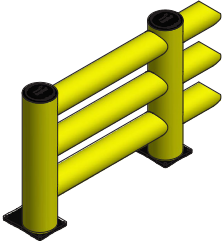
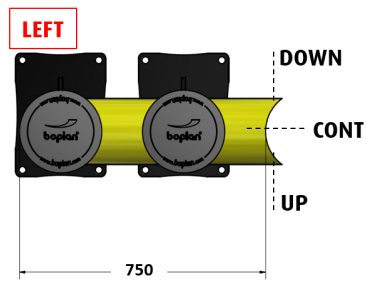
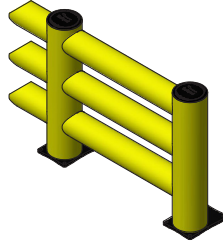
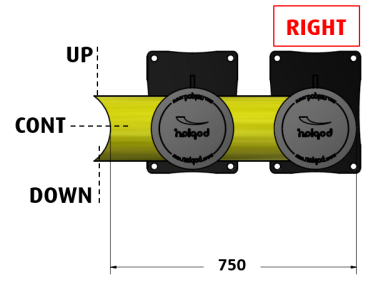
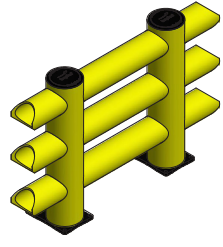
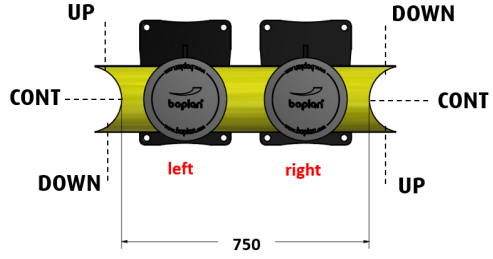
| CURVES | | |
|--|--------------------|---|
| Conn.tube Ø200 Curve 350mm - YE | TS4000-0350-C200YE |  |
| Conn.tube Ø200 - 45° Curve 350mm - YE | TS4000-0350-C204YE |  |
| Conn.tube Ø200 - 90° Curve 350mm - YE | TS4000-0350-C209YE |  |
| Conn.tube Ø250 Curve 350mm - YE | TS4000-0350-C250YE |  |
| Conn.tube Ø250 - 90° Curve 350mm - YE | TS4000-0350-C259YE |  |

| RAIL SETS | | | |
|---------------|-----------------|---------------|--------------------|
| | Tube length (A) | CC length (B) | Reference |
| Standard rail | 750 mm | 1000 mm | TS4000-0750-1000YE |
| Standard rail | 950 mm | 1200 mm | TS4000-0950-1200YE |
| Standard rail | 1150 mm | 1400 mm | TS4000-1150-1400YE |
| Standard rail | 1350 mm | 1600 mm | TS4000-1350-1600YE |
| Standard rail | 1550 mm | 1800 mm* | TS4000-1550-1800YE |
| Standard rail | 1750 mm | 2000 mm* | TS4000-1750-2000YE |
| Short rail | 600-1349 mm | 850-1599 mm | TS4009-1599-SRYE |
| Long rail | 1351-1749 mm | 1601-2000 mm* | TS4009-2000-LRYE |



* The impact performance has not been tested for tube lengths > 1600 mm. Only use these lengths for non - critical applications.

REFERENCE LIST - TB SUPER TRIPLE

| FIXED UNITS | | | | | |
|-------------|---------------|-------------------|--|---|---|
| TYPE | LENGTH | BASE | REFERENCE YE | | |
| no curves | 750 mm | Steel ZC SS | TS4000-0750-FUYE TS4000-0750-FUYEZ TS4000-0750-FUYES |  |  |
| | 751-1750 mm | Steel ZC SS | TS4001-1750-FUYE TS4001-1750-FUYEZ TS4001-1750-FUYES | | |
| 1 curve | Post LEFT | 750 mm | Steel ZC SS TS4000-0750-FU1CLYE TS4000-0750-FU1CLYEZ TS4000-0750-FU1CLYES |  |  |
| | | 751-1750 mm | Steel ZC SS TS4001-1750-FU1CLYE TS4001-1750-FU1CLYEZ TS4001-1750-FU1CLYES | | |
| | Post RIGHT | 750 mm | Steel ZC SS TS4000-0750-FU1CRYE TS4000-0750-FU1CRYEZ TS4000-0750-FU1CRYES |  |  |
| | | 751-1750 mm | Steel ZC SS TS4001-1750-FU1CRYE TS4001-1750-FU1CRYEZ TS4001-1750-FU1CRYES | | |
| 2 curves | 800 mm | Steel ZC SS | TS4000-0800-FU2CYE TS4000-0800-FU2CYEZ TS4000-0800-FU2CYES |  |  |
| | 801-1750 mm | Steel ZC SS | TS4001-1750-FU2CYE TS4001-1750-FU2CYEZ TS4001-1750-FU2CYES | | |