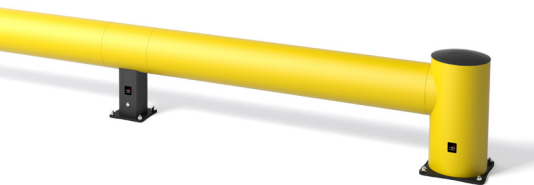




TB400 BOPLAN SAFETY BARRIER SPECIFICATION SHEET

Revision: 3 December 2018 11:49 AM
Boplan reference: TB4000 - ...



PRODUCT SPECIFICATIONS

| APPLICATION | | | |
|---|---|-------------------------------------|--|
| Environment | The TB400 is used for the protecting of walls, machines and infrastructure from pallet trucks, forklifts or other vehicles. | | |
| Advisory speed | 9.0 km/h | For gross weight vehicle of 2500 kg | |
| | 6.5 km/h | For gross weight vehicle of 5000 kg | |
| MATERIAL | | | |
| Posts and rails | Polyolefin - UV resistant - Fire class HB* - Non conductive - Impervious to most chemical products** | | |
| STANDARD COLORS | | | |
| End post | | | Yellow |
| Mid post | | | Yellow |
| Tubes (rails) | | | Yellow |
| BASEPLATES | | | |
| | Steel | Zinc Coated Steel | Stainless steel |
| Material | Steel 37 | Steel 37 | INOX (RVS 304) |
| Coating | Lacquered | Lacquered + electro plating | No Itacquer / No coating |
| Color | High gloss black | Matt black | Natural color |
| FIXATIONS | | | |
| | ZINC COATED | | INOX |
| EXPANSION ANCHOR  | Length = 120 mm Size = M12 Drill hole diameter = 12 mm Max load (pull out) = 7.9 kN | | Length = 120 mm Size = M12 Drill hole diameter = 12 mm Max load (pull out) = 7.9 kN |
| THREADED ROD (WITH CHEMICAL ANCHOR)  | Length = 120 mm Size = M12 Drill hole diameter = 14 mm Max load (pull out) = 16 kN | | Length = 120 mm Size = M12 Drill hole diameter = 14 mm Max load (pull out) = 16 kN |

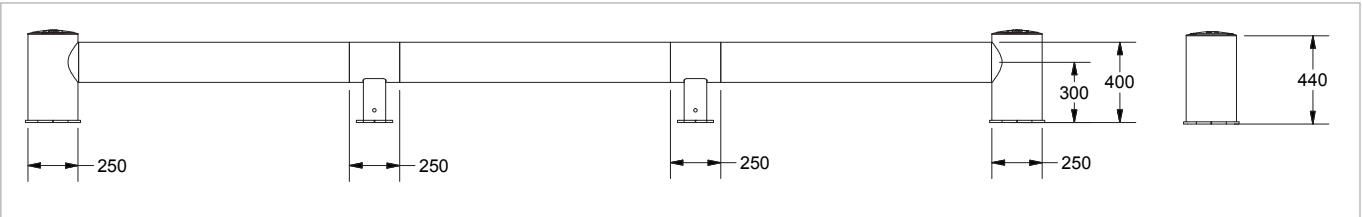
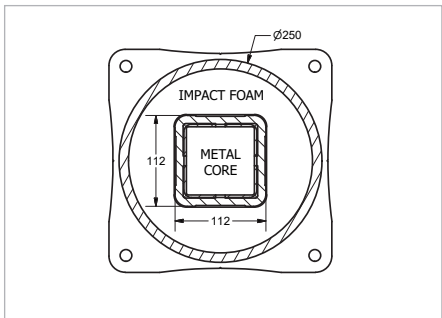
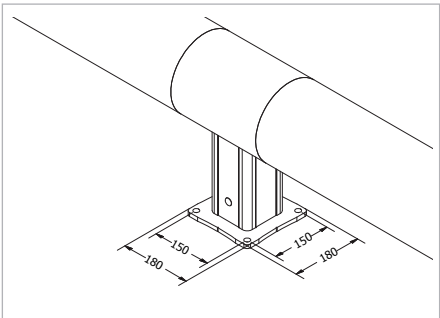
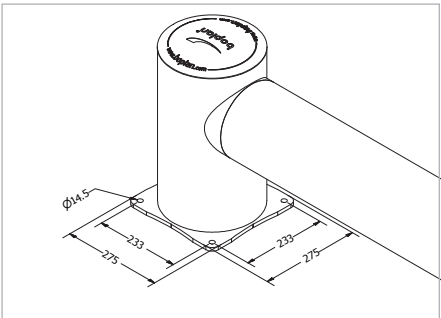
*Fire class HB = Slow burning; classification according to UL94: US Standard for Safety of Flammability of Plastics
**Ask your local sales office for resistance to specific chemicals.



FEATURES AND FUNCTIONALITY TB400

| SIZE | | |
|---------------------------|---|--|
| Height end posts | | 440 mm |
| Height mid post | | 400 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) Impact foam (between outer and inner profile) |
| Profile section mid posts | | Profile: 112 mm x 112 mm (10 mm thick) |
| Standard rail length | | 1350 mm (other sizes: 750 mm - 1750 mm) |
| Baseplate | | End Post: 275 mm x 275 mm (10 mm thick) Mid Post: 180 mm x 180 mm (10 mm thick) |
| IMPACT PERFORMANCE | | |
| Test conditions | Ambient temperature Tube length Fork lift weight Floor Success criteria | 20°C 1600mm (center - center) 2300kg Industrial concrete Fork lift stopped by barrier |
| 90° impact | Maximum impact on post | 16100 Joule |
| | Maximum impact on tube | 20100 Joule |
| 45° impact | Maximum impact on tube | 28400 Joule |

| REQUIREMENTS | |
|---|---|
| Concrete quality | minimum C25/30 |
| Concrete floor plate thickness (mm) | minimum 150 mm |
| Concrete slab dimension around posts (mm) | 600 (h) x 600 (w) x 500 (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. RVS: outdoor use or frequent exposure to water and humidity. |



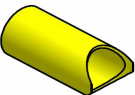
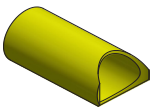
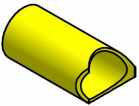
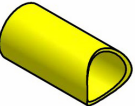
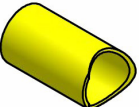
S = Stainless steel (=inox = RVS)
 Z = Zinc coated (=galvanized)
 C = chamfered
 YE = Yellow

CC = Center - Center distance

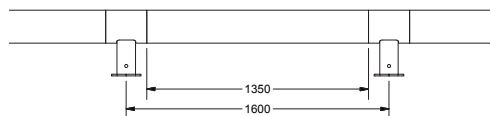


REFERENCE LIST - TB400

| POSTS | | |
|--|--|---|
| End post End post - Stainless steel End post - Zinc coated | TB4000-0001-EPYE TB4000-0001-EPYES TB4000-0001-EPYEZ |  |
| Mid post Mid post - Stainless steel Mid post - Zinc coated | TB4000-0001-MPYE TB4000-0001-MPYES TB4000-0001-MPYEZ |  |

| CURVES | | |
|--|--------------------|---|
| Conn.tube Ø200 Curve 350mm - YE | TB4000-0350-C200YE |  |
| Conn.tube Ø200 - 45° Curve 350mm - YE | TB4000-0350-C204YE |  |
| Conn.tube Ø200 - 90° Curve 350mm - YE | TB4000-0350-C209YE |  |
| Conn.tube Ø250 Curve 350mm - YE | TB4000-0350-C250YE |  |
| Conn.tube Ø250 - 90° Curve 350mm - YE | TB4000-0350-C259YE |  |

| RAIL SETS | | | |
|---------------|--------------|---------------|--------------------|
| | Tube length | CC length | Reference |
| Standard rail | 750 mm | 1000 mm | TB4000-0750-1000YE |
| Standard rail | 950 mm | 1200 mm | TB4000-0950-1200YE |
| Standard rail | 1150 mm | 1400 mm | TB4000-1150-1400YE |
| Standard rail | 1350 mm | 1600 mm | TB4000-1350-1600YE |
| Standard rail | 1550 mm | 1800 mm* | TB4000-1550-1800YE |
| Standard rail | 1750 mm | 2000 mm* | TB4000-1750-2000YE |
| Short rail | 600-1349 mm | 850-1599 mm | TB4009-1599-SRYE |
| Long rail | 1351-1749 mm | 1601-2000 mm* | TB4009-2000-LRYE |



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

S = Stainless steel (=inox = RVS)
 Z = Zinc coated (=galvanized)
 C = chamfered
 YE = Yellow



REFERENCE LIST - TB400

| FIXED UNITS | | | | |
|-------------|-------------|---|--|--|
| TYPE | LENGTH | YELLOW | | |
| no curves | 750 mm | TB4000-0750-FUYE TB4000-0750-FUYES TB4000-0750-FUYEZ | | |
| | 751-1750 mm | TB4001-1750-FUYE TB4001-1750-FUYES TB4001-1750-FUYEZ | | |
| 1 curve | 750 mm | TB4000-0750-FU1CYE TB4000-0750-FU1CYES TB4000-0750-FU1CYEZ + DEFINE CURVE | | |
| | 751-1750 mm | TB4001-1750-FU1CYE TB4001-1750-FU1CYES TB4001-1750-FU1CYEZ + DEFINE CURVE | | |
| 2 curves | 750 mm | TB4000-0750-FU2CYE TB4000-0750-FU2CYES TB4000-0750-FU2CYEZ + DEFINE CURVES | | |
| | 751-1750 mm | TB4001-1750-FU2CYE TB4001-1750-FU2CYES TB4001-1750-FU2CYEZ + DEFINE CURVES | | |