

TB 400 DOUBLE

SAFETY BARRIERS

Revision: 17 February 2025 3:36 PM
Boplan reference: DT4000-...



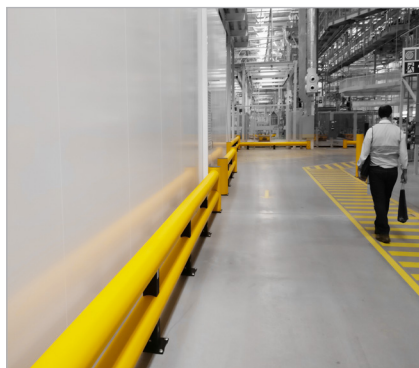
PRODUCT SPECIFICATIONS

APPLICATION			
Environment	Double shielding to separate heavier vehicles from pedestrian zones.		
Impact performance at 90°	POST: 30700 Joule (Eq. to 10 ton - 5.5 mph)		
	RAIL: 39100 Joule (Eq. to 10 ton - 6.2 mph)		
MATERIAL			
Posts and rails	Extrilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**		
Caps	Sustainable elastomer		
STANDARD COLORS			
End post	Yellow RAL 1003		
Mid post	Black RAL 9005		
Impact tubes	Yellow RAL 1003		
BASEPLATES			
	Steel / Non-countersunk	ZC / Non-countersunk	SS / Non-countersunk
Material	Steel 37	Steel 37	Stainless steel 304
Coating	Lacquered	Lacquered + electro plating	No lacquer / No coating
Color	High gloss black	Mat black	Natural color

*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		3/4 in x 5 1/2 in	not available
	Wedge anchor		Ø18mm (M12) x 130mm	Ø18mm (M12) x 130mm
	Concrete screw		Ø17mm x 130mm	Not available
	Anchor rod (Chemical)		M16 x 120mm + Chemical resin	M16 x 120mm + Chemical resin

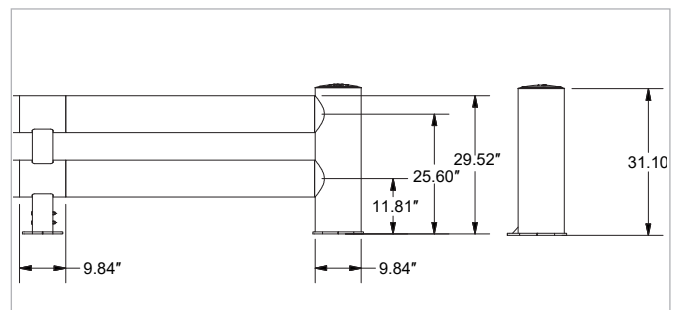
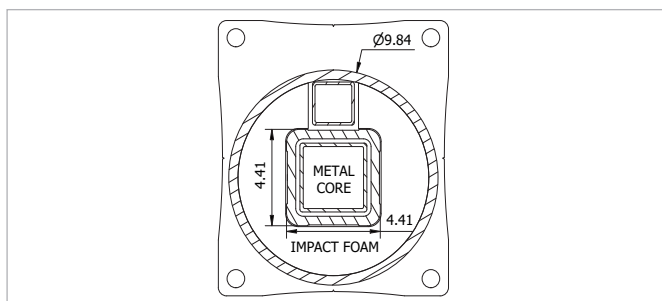
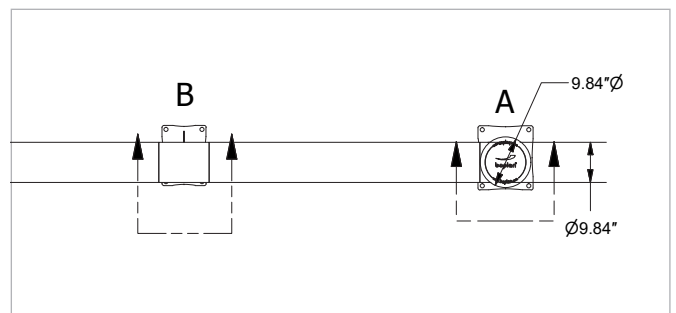
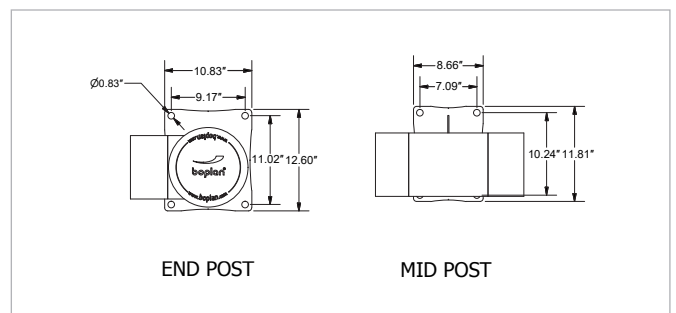


FEATURES AND FUNCTIONALITY - TB 400 DOUBLE

SIZE	
Height end posts	31 in
Height mid post	29.5 in
Profile section tubes	Ø8 in (0.4 mm thick)
Profile section end posts	Outer tube: Ø10 in (0.43 in thick) Inner profile: 4.4 x 4.4 in (0.39 in thick)
Profile section mid posts	Profile: 4.4 x 4.4 in (0.39 in thick)
Standard rail length	53 in (other sizes: 29.5 in - 69 in)
Baseplate	End Post: 11 x 12.6 in (0.47 in thick) Mid Post: 8.7 in x 11.8 in (0.47 in thick)

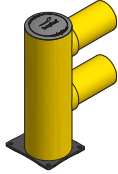
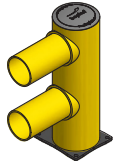
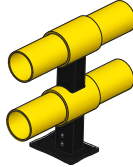
REQUIREMENTS	
Concrete quality	minimum 4000 PSI (C25/30)
Concrete floor plate thickness (in)	minimum 6 in
Concrete slab dimension around posts (in)	31.5 (h) x 31.5 (w) x 23.6 (d)
Operational temperature	14°F up to 104°F
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless Steel: outdoor use or frequent exposure to water and humidity.

IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN TB 400 DOUBLE		
IMPACT RATING	45°	90°
E80 > 80 kJ		
E60 > 60 kJ	55,3 kJ	
E50 > 50 kJ		
E40 > 40 kJ		39,1 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	 ACCREDITED TEST LABORATORY 620 Route des Fromentaux 01500 Saint-Maurice-de-Rémens 01360 Bèlignieux France	
TEMPERATURE: 20°C / 68°F	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	
IMPACT HEIGHT: 650 mm / 25 5/8 inch		
IMPACT ANGLE: 90°		
TEST FLOOR: CONCRETE SLAB C25/30 - 160 mm / 6 inch		
MANUFACTURER ANCHOR PULL OUT: 17 kN		
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5	IL-01400-20250103	

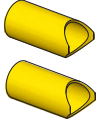
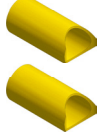
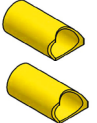
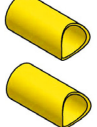
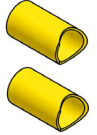


REFERENCE LIST - TB 400 DOUBLE

POSTS

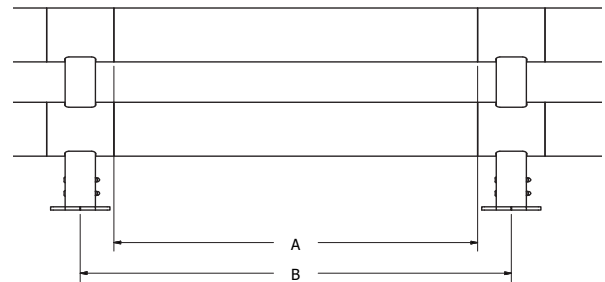
End post Left End post Left - ZC End post Left - SS	DT4000-0001-EPLYE DT4000-0001-EPLYEZ DT4000-0001-EPLYES	
End post Right End post Right - ZC End post Right - SS	DT4000-0001-EPRYE DT4000-0001-EPRYEZ DT4000-0001-EPRYES	
Mid post Mid post - ZC Mid post - SS	DT4000-0001-MPYE DT4000-0001-MPYEZ DT4000-0001-MPYES	

CURVES

Conn.tube Ø200 Curve 350mm - YE	DT4000-0350-C200YE	
Conn.tube Ø200 - 45° Curve 350mm - YE	DT4000-0350-C204YE	
Conn.tube Ø200 - 90° Curve 350mm - YE	DT4000-0350-C209YE	
Conn.tube Ø250 Curve 350mm - YE	DT4000-0350-C250YE	
Conn.tube Ø250 - 90° Curve 350mm - YE	DT4000-0350-C259YE	

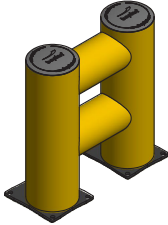
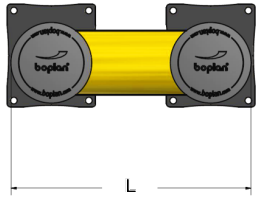
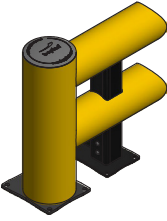
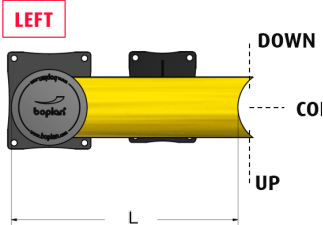
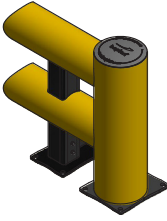
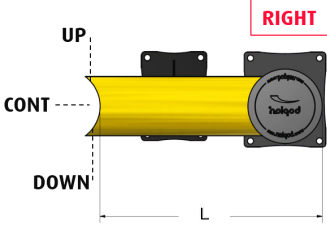
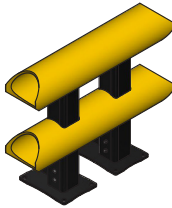
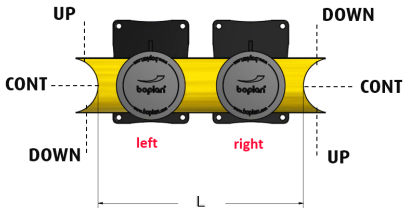
RAIL SETS

	Tube length (A)	CC length (B)	Reference
Standard rail	32 in	42 in	DT4000-0817-1067YE
Standard rail	38 in	48 in	DT4000-0970-1220YE
Standard rail	50 in	60 in	DT4000-1275-1525YE
Standard rail	62 in	72 in*	DT4000-1578-1828YE
Standard rail	68 in	78 in*	DT4000-1730-1980YE
Short rail	26-38 in	36-48 in	DT4009-0048-SRYE
Short rail	38-50 in	48-60 in	DT4009-0060-LRYE
Long rail	50-62 in	60-72 in*	DT4009-0072-LRYE
Long rail	62-68 in	72-78 in*	DT4009-0078-LRYE



* The impact performance has not been tested for tube lengths > 63 in.
Only use these lengths for non - critical applications.

REFERENCE LIST - TB 400 DOUBLE

FIXED UNITS					
TYPE	LENGTH	BASE	REFERENCE YE		
no curves	na	30 in	Steel ZC SS DT4000-0750-FUYE DT4000-0750-FUYEZ DT4000-0750-FUYES		
	na	30-68 in	Steel ZC SS DT4001-1750-FUYE DT4001-1750-FUYEZ DT4001-1750-FUYES		
1 curve	Endpost LEFT	30 in	Steel ZC SS DT4000-0750-FU1CLYE DT4000-0750-FU1CLYEZ DT4000-0750-FU1CLYES		
		30-68 in	Steel ZC SS DT4001-1750-FU1CLYE DT4001-1750-FU1CLYEZ DT4001-1750-FU1CLYES		
	Endpost RIGHT	30 in	Steel ZC SS DT4000-0750-FU1CRYE DT4000-0750-FU1CRYEZ DT4000-0750-FU1CRYES		
		30-68 in	Steel ZC SS DT4001-1750-FU1CRYE DT4001-1750-FU1CRYEZ DT4001-1750-FU1CRYES		
2 curves	na	30 in	Steel ZC SS DT4000-0750-FU2CYE DT4000-0750-FU2CYEZ DT4000-0750-FU2CYES		
	na	30-68 in	Steel ZC SS DT4001-1750-FU2CYE DT4001-1750-FU2CYEZ DT4001-1750-FU2CYES		