

TB SUPER DOUBLE

SAFETY BARRIERS

Revision: 17 February 2025 4:15 PM
Boplan reference: DS4000-...



PRODUCT SPECIFICATIONS

APPLICATION			
Protection	The TB Super Double is a robust protective barrier designed to protect walls, machines, and infrastructure from significant impacts, even at high speeds. It effectively separates areas with heavy vehicle traffic from pedestrian zones, ensuring enhanced safety.		
Impact performance at 90°	POST: 41900 Joule (Eq. to 10 ton - 6.4 mph)		
	RAIL: 50100 Joule (Eq. to 10 ton - 7 mph)		
MATERIAL			
Posts and rails	Extrilene® - UV resistant - Fire class E ⁺ - Non conductive - Impervious to most chemicals**		
Caps	Sustainable elastomer		
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.

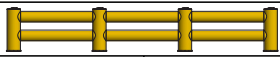
FIXATIONS			
		ZC (Zinc coated)	SS (Stainless steel)
STANDARD	Wedge anchor	 3/4 in x 5 1/2 in	not available
	Wedge anchor	 Ø18mm (M12) x 130mm	Ø18mm (M12) x 130mm
	Concrete screw	 Ø17mm x 130mm	Not available

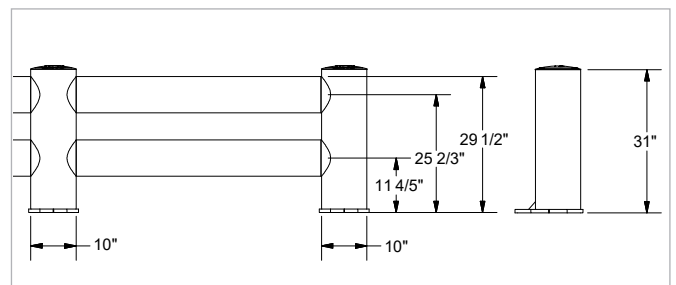
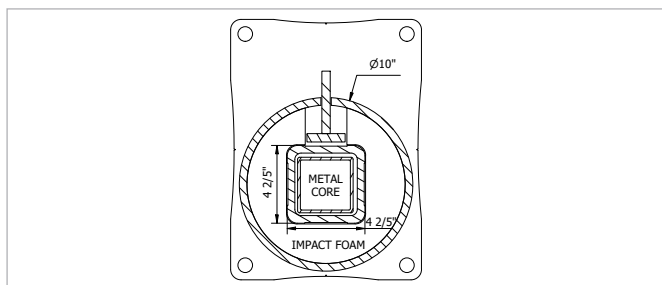
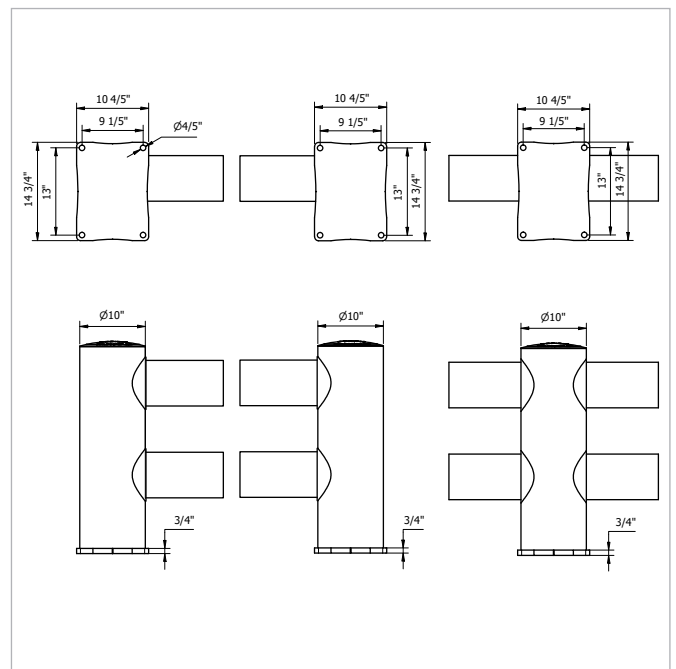


FEATURES AND FUNCTIONALITY - TB SUPER DOUBLE

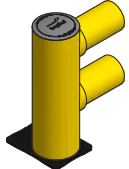
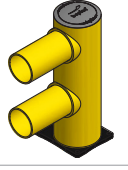
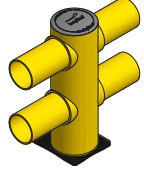
SIZE	
Height end posts	31 in
Height mid post	31 in
Profile section tubes	Ø8 (2/5 in thick)
Profile section end posts	Outer tube: Ø10 in (2/5 in thick) Inner profile: 4 2/5 x 4 2/5 in (1/3 in thick)
Profile section mid posts	Outer tube: Ø10 in (2/5 in thick) Inner profile: 4 2/5 x 4 2/5 in (1/3 in thick)
Standard rail length	CC60 in (Tube length: 50 in)
Baseplate	End Post: 14 3/4 x 10 4/5 (3/4 in thick) Mid Post: 14 3/4 x 10 4/5 (3/4 in thick)

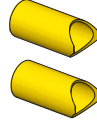
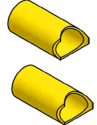
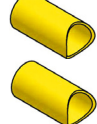
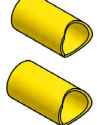
REQUIREMENTS	
Concrete quality	minimum 400 PSI (C25/30)
Concrete floor plate thickness (mm)	minimum 6 in
Concrete slab dimension around posts (mm)	31 1/2 (H) x 31 1/2 (W) x 23 2/3 (D)
Operational temperature	-14 °F up to 104 °F
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless Steel: outdoor use or frequent exposure to water and humidity.

 IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN TB 400 SUPER DOUBLE 		
IMPACT RATING	45°	90°
E80	< 80 kJ	
E60	< 60 kJ	
E50	< 50 kJ	
E40	< 40 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	
	70,8 kJ	50,1 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-DS400-20230710

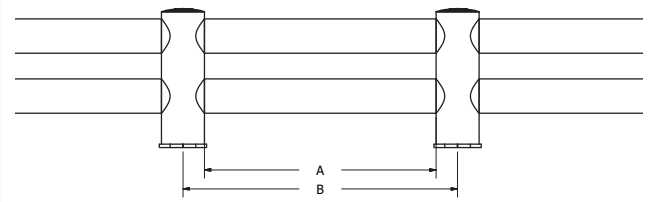


REFERENCE LIST - TB SUPER DOUBLE

POSTS		
End post Left End post Left - ZC End post Left - SS	DS4000-0001-EPLYE DS4000-0001-EPLYEZ DS4000-0001-EPLYES	
End post Right End post Right - ZC End post Right - SS	DS4000-0001-EPRYE DS4000-0001-EPRYEZ DS4000-0001-EPRYES	
Mid post Mid post - ZC Mid post - SS	DS4000-0001-MPYE DS4000-0001-MPYEZ DS4000-0001-MPYES	

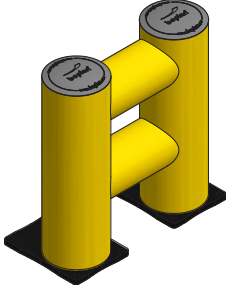
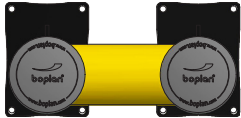
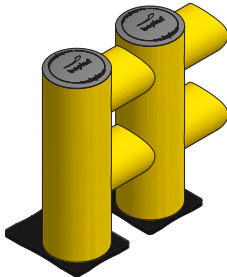
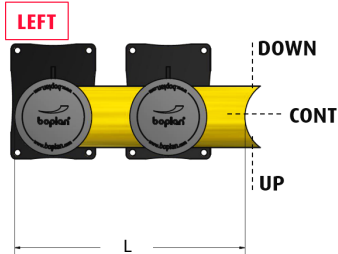
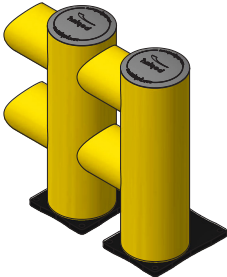
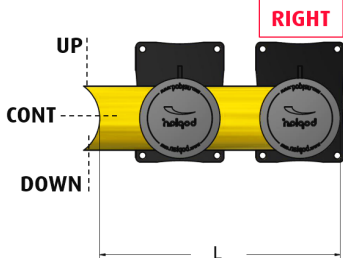
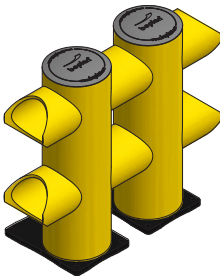
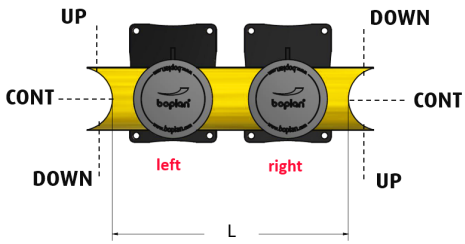
CURVES		
Conn.tube Ø8 Curve 14 in - YE	DS4000-0014-C080YE	
Conn.tube Ø8 - 45° Curve 14 in - YE	DS4000-0014-C084YE	
Conn.tube Ø8 - 90° Curve 14 in - YE	DS4000-0014-C089YE	
Conn.tube Ø8 Curve 14 in - YE	DS4000-0014-C100YE	
Conn.tube Ø8 - 90° Curve 14 in - YE	DS4000-0014-C109YE	

RAIL SETS			
	Tube length (A)	CC length (B)	Reference
Standard rail	26 in	36 in	DS4000-0665-0915YE
Standard rail	38 in	48 in	DS4000-0970-1220YE
Standard rail	50 in	60 in	DS4000-1275-1525YE
Standard rail	62 in	72 in*	DS4000-1579-1829YE
Standard rail	68 in	78 in*	DS4000-1730-1980YE
Short rail	26 - 58 in	36 - 48 in	DS4009-0048-SRYE
Long rail	58 - 70 in	48 - 60 in	DS4009-0060-LRYE
Long rail	50 - 62 in	60 - 72 in*	DS4009-0072-LRYE
Long rail	62 - 68 in	72 - 78 in*	DS4009-0078-LRYE



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

REFERENCE LIST - TB SUPER DOUBLE

FIXED UNITS					
TYPE	LENGTH		BASE	REFERENCE YE	
no curves	30 in		Steel ZC SS	DS4000-0750-FUYE DS4000-0750-FUYEZ DS4000-0750-FUYES	 
	30-68 in		Steel ZC SS	DS4001-1750-FUYE DS4001-1750-FUYEZ DS4001-1750-FUYES	
1 curve	Post LEFT	30 in	Steel ZC SS	DS4000-0750-FU1CLYE DS4000-0750-FU1CLYEZ DS4000-0750-FU1CLYES	 
		30-68 in	Steel ZC SS	DS4001-1750-FU1CLYE DS4001-1750-FU1CLYEZ DS4001-1750-FU1CLYES	
	Post RIGHT	30 in	Steel ZC SS	DS4000-0750-FU1CRYE DS4000-0750-FU1CRYEZ DS4000-0750-FU1CRYES	 
		30-68 in	Steel ZC SS	DS4001-1750-FU1CRYE DS4001-1750-FU1CRYEZ DS4001-1750-FU1CRYES	
2 curves	32 in		Steel ZC SS	DS4000-0800-FU2CYE DS4000-0800-FU2CYEZ DS4000-0800-FU2CYES + DEFINE CURVES	 
	32-68 in		Steel ZC SS	DS4001-1750-FU2CYE DS4001-1750-FU2CYEZ DS4001-1750-FU2CYES + DEFINE CURVES	