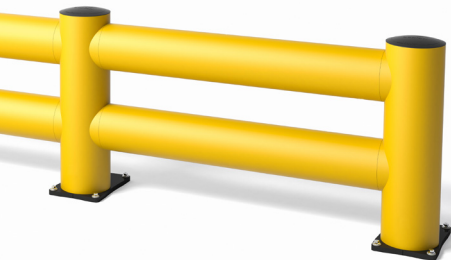


TB SUPER DOUBLE

SAFETY BARRIERS

Revision: 30 May 2024 5:04 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 - 10,4 km/h)		
	RAIL: 50100 Joule (Eq. to 10 ton - 11,4 km/h)		
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	 M12 x 120mm	M12 x 120mm
	Anchor rod (Chemical)	 M12 x 120mm + Chemical resin	M12 x 120mm + Chemical resin
ALTERNATIVES	Concrete screw	 Ø12mm x 100mm	Not available
	Asphalt anchor	 Bolt M10 x 40mm + Screw Ø16mm	Not available
	Spit anchor	 Bolt M12 x 100mm + Plug Ø20mm	Not available

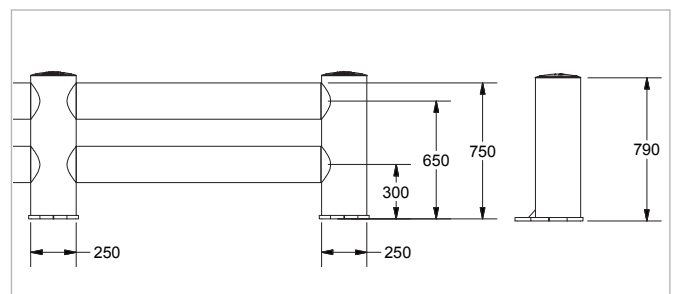
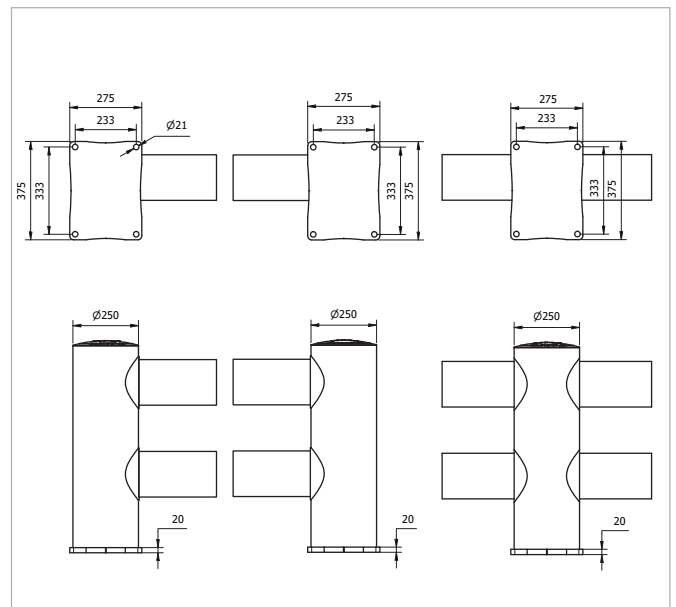


FEATURES AND FUNCTIONALITY - TB SUPER DOUBLE

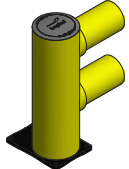
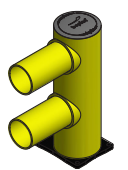
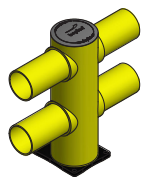
SIZE	
Height end posts	790 mm
Height mid post	790 mm
Profile section tubes	Ø200 mm (11 mm thick)
Profile section end posts	Outer tube: Ø250 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick)
Profile section mid posts	Outer tube: Ø250 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick)
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)

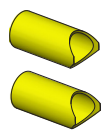
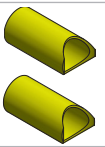
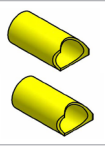
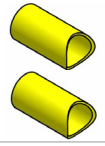
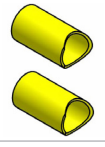
REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	800 (h) x 800 (w) x 600 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless Steel: outdoor use or frequent exposure to water and humidity.

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

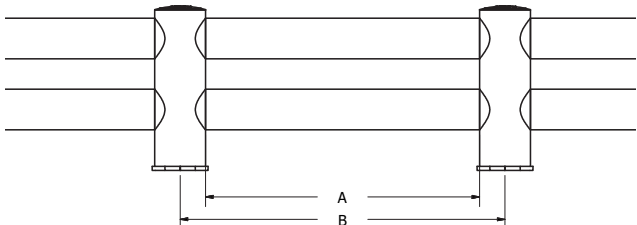


REFERENCE LIST - TB SUPER DOUBLE

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 Ø200 Curve 350mm - YE	DS4000-0350-C200YE	
Conn.tube Ø200 - 45° Curve 350mm - YE	DS4000-0350-C204YE	
Conn.tube Ø200 - 90° Curve 350mm - YE	DS4000-0350-C209YE	
Conn.tube Ø250 Curve 350mm - YE	DS4000-0350-C250YE	
Conn.tube Ø250 - 90° Curve 350mm - YE	DS4000-0350-C259YE	

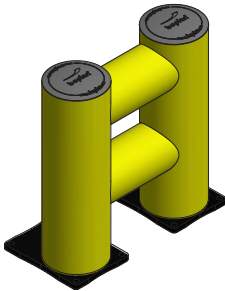
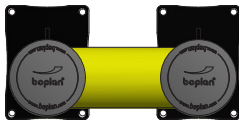
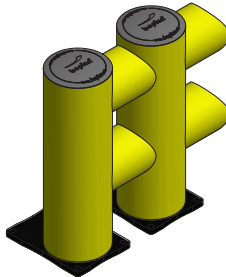
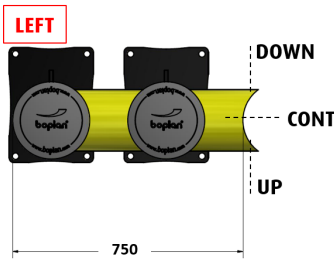
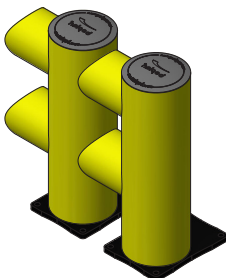
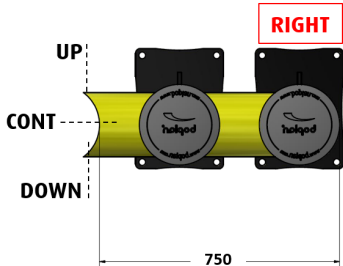
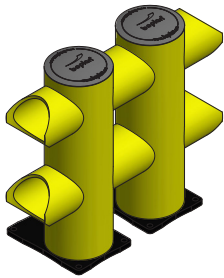
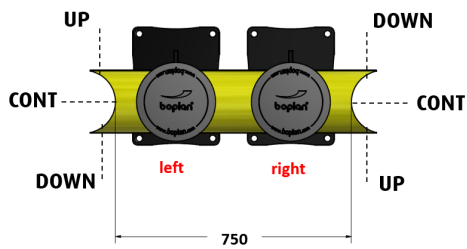
RAIL SETS			
	Tube length (A)	CC length (B)	Reference
Standard rail	750 mm	1000 mm	DS4000-0750-1000YE
Standard rail	950 mm	1200 mm	DS4000-0950-1200YE
Standard rail	1150 mm	1400 mm	DS4000-1150-1400YE
Standard rail	1350 mm	1600 mm	DS4000-1350-1600YE
Standard rail	1550 mm	1800 mm*	DS4000-1550-1800YE
Standard rail	1750 mm	2000 mm*	DS4000-1750-2000YE
Short rail	600-1349 mm	850-1599 mm	DS4009-1599-SRYE
Long rail	1351-1749 mm	1601-2000 mm*	DS4009-2000-LRYE



The diagram shows two vertical rail sections connected by horizontal rails. Dimension A is the length of the horizontal rail between the two vertical sections. Dimension B is the total length of the horizontal rail, including the sections where it connects to the vertical rails.

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

REFERENCE LIST - TB SUPER DOUBLE

FIXED UNITS						
TYPE	LENGTH		BASE	REFERENCE YE		
no curves	750 mm		Steel ZC SS	DS4000-0750-FUYE DS4000-0750-FUYEZ DS4000-0750-FUYES		
	751-1750 mm		Steel ZC SS	DS4001-1750-FUYE DS4001-1750-FUYEZ DS4001-1750-FUYES		
1 curve	Post LEFT	750 mm	Steel ZC SS	DS4000-0750-FU1CLYE DS4000-0750-FU1CLYEZ DS4000-0750-FU1CLYES		
		751-1750 mm	Steel ZC SS	DS4001-1750-FU1CLYE DS4001-1750-FU1CLYEZ DS4001-1750-FU1CLYES		
	Post RIGHT	750 mm	Steel ZC SS	DS4000-0750-FU1CRYE DS4000-0750-FU1CRYEZ DS4000-0750-FU1CRYES		
		751-1750 mm	Steel ZC SS	DS4001-1750-FU1CRYE DS4001-1750-FU1CRYEZ DS4001-1750-FU1CRYES		
2 curves	800 mm		Steel ZC SS	DS4000-0800-FU2CYE DS4000-0800-FU2CYEZ DS4000-0800-FU2CYES + DEFINE CURVES		
	801-1750 mm		Steel ZC SS	DS4001-1750-FU2CYE DS4001-1750-FU2CYEZ DS4001-1750-FU2CYES + DEFINE CURVES		