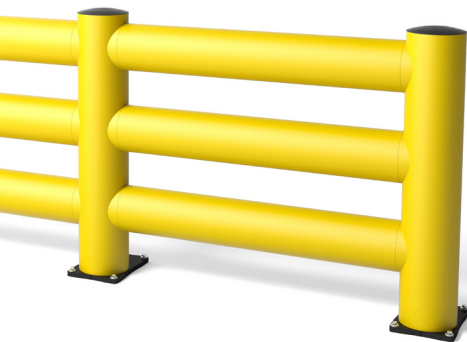


TB SUPER TRIPLE BOPLAN SAFETY BARRIER SPECIFICATION SHEET

Revision: 26 June 2023 3:22 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	Novilene® - UV resistant - Fire class E° - Non conductive - Impervious to most chemicals**		
Caps	SEBS Rubber		
STANDARD COLORS			
End post	Yellow		
Mid post	Yellow		
Impact tubes	Yellow		
BASEPLATES			
	Steel	Zinc Coated Steel	Stainless steel
Material	Steel 37	Steel 37	Stainless steel 304
Coating	Lacquered	Lacquered + electro plating	No lacquer / No coating
Color	High gloss black	Matt 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	 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 135mm	Not available
	Asphalt anchor	 Bolt M16 x 100mm + Screw Ø22mm	Not available

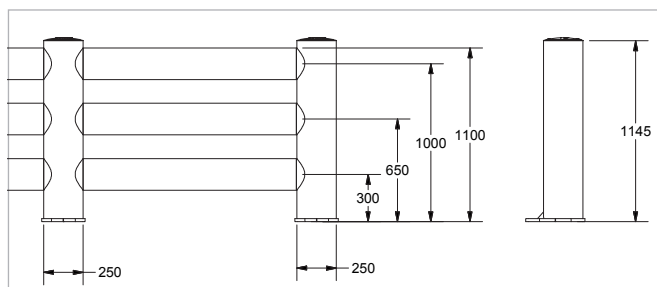
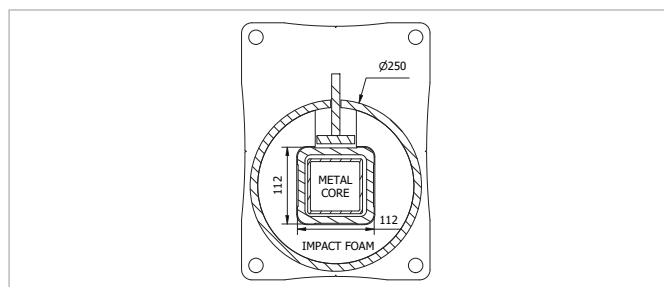
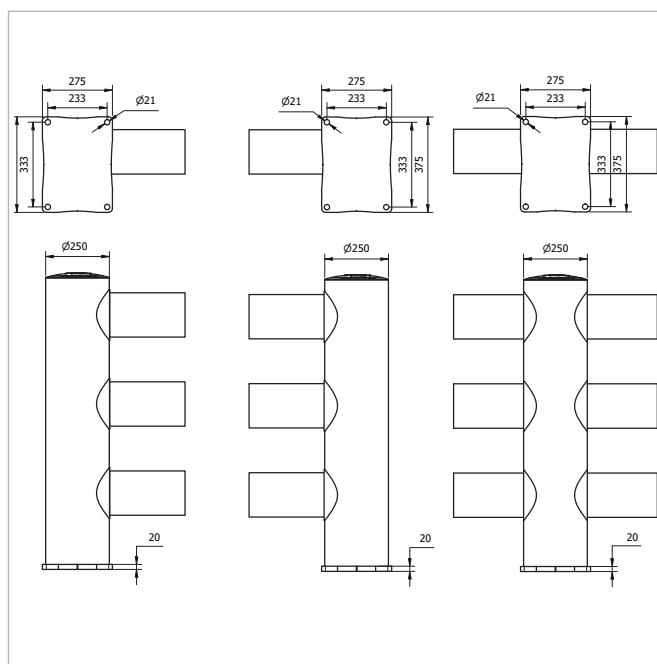


FEATURES AND FUNCTIONALITY - TB SUPER TRIPLE

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)

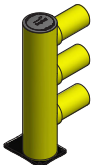
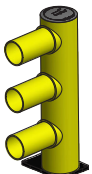
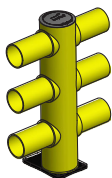
REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	900 (h) x 900 (w) x 600 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments.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

 READY FOR IMPACT		IMPACT LABEL FOR SAFETY BARRIERS																									
BOPLAN TB400 SUPER TRIPLE																											
IMPACT RATING		45°	90° PAS 13-2017 compliant																								
<table><tr><td>E80</td><td>< 80 kJ</td></tr><tr><td>E60</td><td>< 60 kJ</td></tr><tr><td>E50</td><td>< 50 kJ</td></tr><tr><td>E40</td><td>< 40 kJ</td></tr><tr><td>E35</td><td>< 35 kJ</td></tr><tr><td>E30</td><td>< 30 kJ</td></tr><tr><td>E25</td><td>< 25 kJ</td></tr><tr><td>E20</td><td>< 20 kJ</td></tr><tr><td>E15</td><td>< 15 kJ</td></tr><tr><td>E10</td><td>< 10 kJ</td></tr><tr><td>E5</td><td>< 5,0 kJ</td></tr><tr><td>E2</td><td>< 2,5 kJ</td></tr></table>		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	68,3 kJ	48,3 kJ
E80	< 80 kJ																										
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E10	< 10 kJ																										
E5	< 5,0 kJ																										
E2	< 2,5 kJ																										
TEST CONDITIONS TEMPERATURE: 20°C IMPACT HEIGHT: 1000 mm IMPACT ANGLE: 30° TEST FLOOR: CONCRETE C25/30 - 160 mm MANUFACTURER ANCHOR PULL OUT: 17 kN		TEST VEHICLE WEIGHT: 2300 KG TYPE: COMMERCIAL FORK LIFT SIZE (L x W x H): 1890 x 1020 x 1970 mm CONTACT AREA: STEEL BUMPER WIDTH: 600 mm	ACCREDITED TEST LABORATORY 620 Route des Fromentaux 01500 Saint-Maurice-de-Rémilly 01360 Belleney France																								
																											
SUCCESS CRITERIA VEHICLE STOPPED - AS ₁ (ACCELERATION SEVERITY INDEX) < 0.5																											

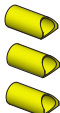
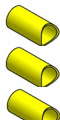


REFERENCE LIST - TB SUPER TRIPLE

POSTS

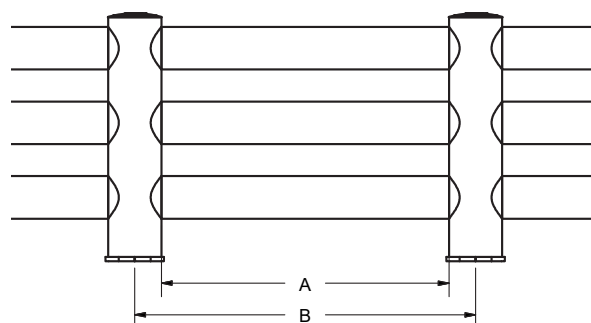
End post Left End post Left - ZC End post Left - SS	TS4000-0001-EPLYE TS4000-0001-EPLYEZ TS4000-0001-EPLYES	
End post Right End post Right - ZC End post Right - SS	TS4000-0001-EPRYE TS4000-0001-EPRYEZ TS4000-0001-EPRYES	
Mid post Mid post - ZC Mid post - SS	TS4000-0001-MPYE TS4000-0001-MPYEZ TS4000-0001-MPYES	

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	

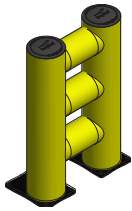
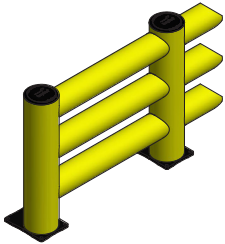
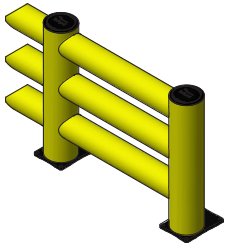
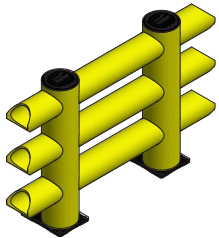
RAIL SETS

	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	YELLOW	
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	

