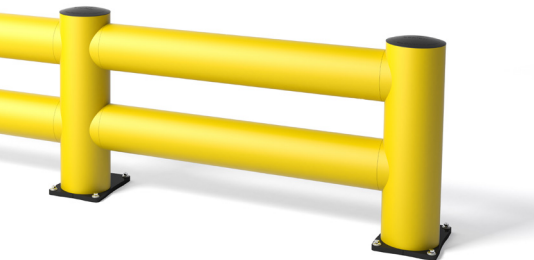


TB SUPER DOUBLE BOPLAN SAFETY BARRIER SPECIFICATION SHEET

Revision: 18 May 2021 10:44 AM
Boplan reference: DS4000 - ...



PRODUCT SPECIFICATIONS

APPLICATION

Protection	Separation of vehicles zones with high traffic frequency from pedestrian zones.
Impact performance at 90° (in JOULE)	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	Polyolefin - UV resistant - Fire class E ⁺ - Non conductive - Impervious to most chemicals ^{**}
Caps	SEBS rubber

COLORS

End post	Yellow
Mid post	Yellow
Impact tubes	Yellow

BASEPLATES

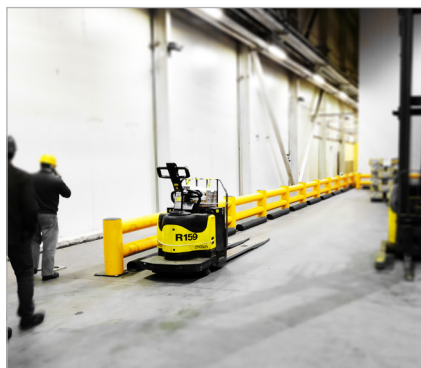
	Steel	Zinc Coated Steel	Stainless steel
Material	Steel 37	Steel 37	SS 304
Coating	Lacquered	Lacquered + electroplating	No lacquer / No coating
Color	High gloss black	Matt black	Natural color

*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	 Ø20mm (M12) x 120mm	Ø20mm (M12) x 120mm
	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 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: 375 mm x 275 mm (20 mm thick) Mid Post: 375 mm x 275 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 TB400 SUPER DOUBLE

IMPACT RATING	45°	90° <small>PAS 13:2017 compliant</small>
E80 >	70,8 kJ	50,1 kJ
E60 >		
E50 >		
E40 >		
E35 >		
E30 >		
E25 >		
E20 >		
E15 >		
E10 >		
E5 >		
E2 >		

TEST CONDITIONS

TEMPERATURE: 20°C
IMPACT HEIGHT: 650 mm
IMPACT ANGLE: 90°
TEST FLOOR: CONCRETE C25/30 - 160 mm
MANUFACTURER ANCHOR PULL OUT: 17 kJ

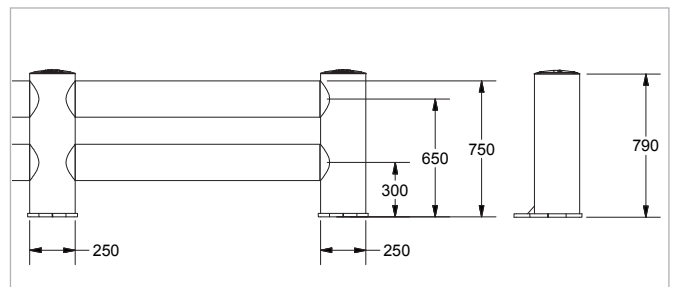
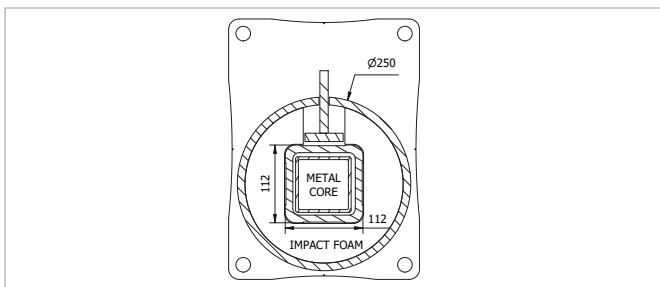
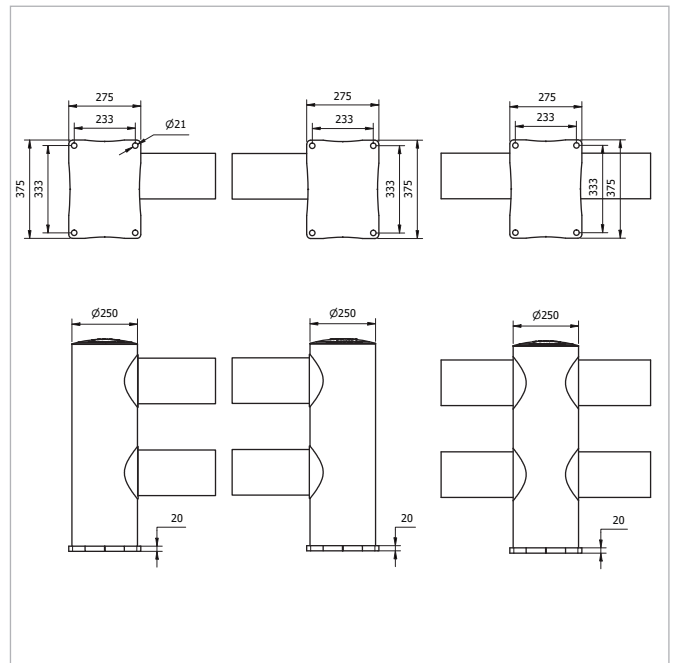
TEST VEHICLE

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

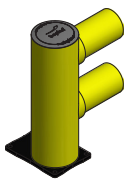
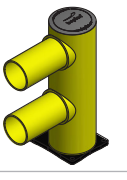
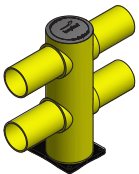
ACCREDITED TEST LABORATORY

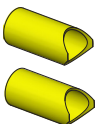
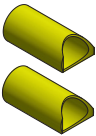
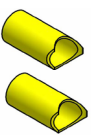
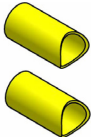
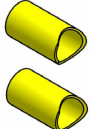
620 Route des Fromentaux
01500 Saint-Maurice-de-Rémens
01360 Beligneux
France

SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5

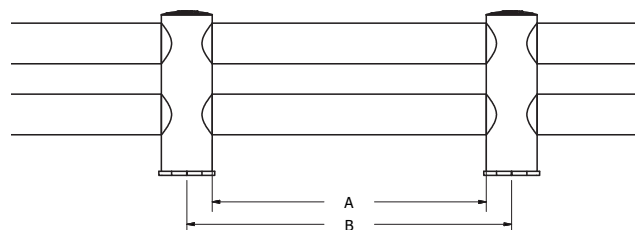


REFERENCE LIST - TB SUPER DOUBLE

POSTS		
End post Left End post Left - SS End post Left - Zinc coated	DS4000-0001-EPLYE DS4000-0001-EPLYES DS4000-0001-EPLYEZ	
End post Right End post Right - SS End post Right - Zinc coated	DS4000-0001-EPRYE DS4000-0001-EPRYES DS4000-0001-EPRYEZ	
Mid post Mid post - Stainless steel Mid post - Zinc coated	DS4000-0001-MPYE DS4000-0001-MPYES DS4000-0001-MPYEZ	

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 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	YELLOW				
no curves	750 mm	DS4000-0750-FUYE DS4000-0750-FUYES DS4000-0750-FUYEZ				
	751-1750 mm	DS4001-1750-FUYE DS4001-1750-FUYES DS4001-1750-FUYEZ				
1 curve	Post LEFT	750 mm				
		751-1750 mm			DS4001-1750-FU1CLYE DS4001-1750-FU1CLYES DS4001-1750-FU1CLYEZ	
	Post RIGHT	750 mm			DS4000-0750-FU1CRYE DS4000-0750-FU1CRYES DS4000-0750-FU1CRYEZ	
		751-1750 mm			DS4001-1750-FU1CRYE DS4001-1750-FU1CRYES DS4001-1750-FU1CRYEZ	
2 curves	750 mm	DS4000-0750-FU2CYE DS4000-0750-FU2CYES DS4000-0750-FU2CYEZ + DEFINE CURVES				
	751-1750 mm	DS4001-1750-FU2CYE DS4001-1750-FU2CYES DS4001-1750-FU2CYEZ + DEFINE CURVES				