

TB200

BOPLAN

SAFETY

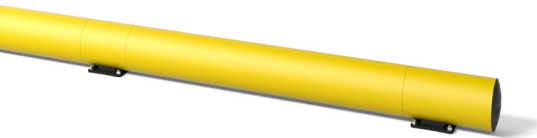
BARRIER

SPECIFICATION

SHEET

Revision: 10 August 2021 4:10 PM

Boplan reference: TB200 ...



PRODUCT SPECIFICATIONS

APPLICATION			
Environment	The TB 200 is installed low to the ground and therefore serves primarily as a wheel guide or wheel stopper.		
Impact performance at 90° (in JOULE)	POST: 9000 Joule (Eq. to 5 ton - 6,8 km/h)		
	RAIL: 21800 Joule (Eq. to 5 ton - 10,6 km/h)		
MATERIAL			
Posts and rails	Polyolefin - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**		
Caps	SEBS rubber		
STANDARD COLORS			
End post	Yellow		
Mid post	Yellow		
Tubes (rails)	Yellow		
BASEPLATES			
	Steel	Zinc Coated Steel	Stainless steel
Material	Steel S235	Steel S235	Stainless steel 304
Coating	Powder coated	Electro plated + Powder coated	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	M12 x 120 mm	M12 x 120 mm
	Wedge anchor Countersunk	Not available	Not available
	Anchor rod (Chemical)	M12 x 120 mm + Chemical resin	M12 x 120 mm + Chemical resin
ALTERNATIVES	Concrete screw	Ø12 mm x 100 mm	Ø10 mm x 100 mm
	Asphalt anchor	Bolt M10 x 40 mm + Screw Ø16 mm	Not available
	Spit anchor	Bolt M12 x 100 mm + Plug Ø20 mm	Not available

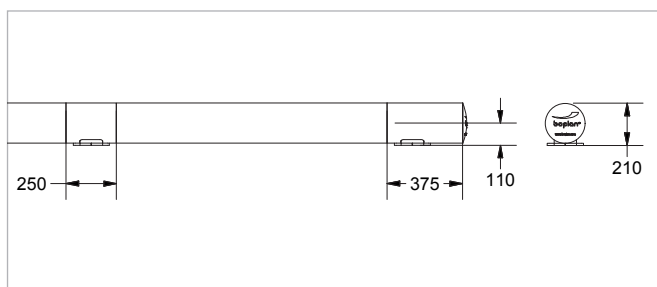
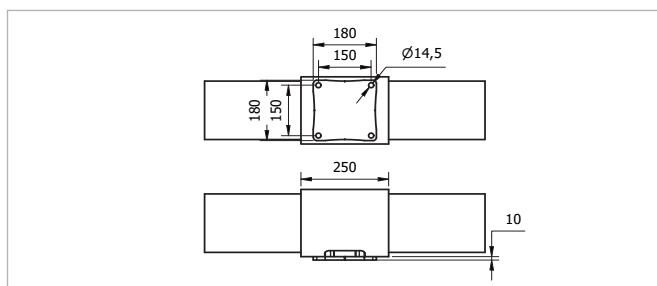
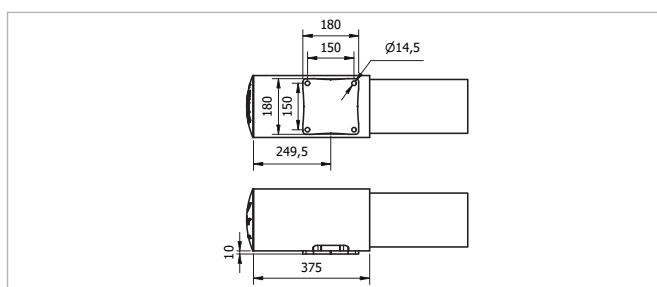


FEATURES AND FUNCTIONALITY TB200

SIZE	
Height end posts	210 mm
Height mid post	210 mm
Profile section tubes	Ø200 mm (11 mm thick)
Profile section end posts	Outer tube: Ø200 mm (11 mm thick) Inner profile: 112 mm x 112 mm (10 mm thick)
Profile section mid posts	Profile: 112 mm x 112 mm (10 mm thick)
Standard rail length	1350 mm (other sizes: 750 mm - 1750 mm)
Baseplate	End Post: 180 mm x 180 mm (10 mm thick) Mid Post: 180 mm x 180 mm (10 mm thick)

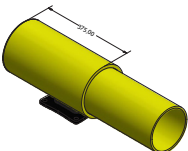
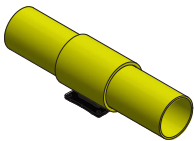
REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness	minimum 150 mm
Concrete slab dimension around posts (mm)	600 (h) x 600 (w) x 500 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless steel: outdoor use or frequent exposure to water and humidity.

IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN TB200		
IMPACT RATING	45°	90° PAS 13:2017 compliant
E80 < 80 kJ		
E60 < 60 kJ		
E50 < 50 kJ		
E40 < 40 kJ		
E35 < 35 kJ	30,8 kJ	
E30 < 30 kJ		
E25 < 25 kJ		21,8 kJ
E20 < 20 kJ		
E15 < 15 kJ		
E10 < 10 kJ		
E5 < 5,0 kJ		
E2 < 2,5 kJ		
TEST CONDITIONS TEMPERATURE: 20°C IMPACT HEIGHT: 110 mm IMPACT ANGLE: 90° TEST FLOOR: CONCRETE C25/30 - 160 mm MANUFACTURER ANCHOR PULL OUT: 7,9 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-Rémens 01360 Béligneux France
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5		

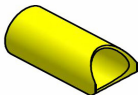
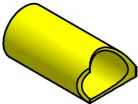
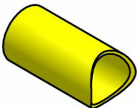


REFERENCE LIST - TB200

POSTS

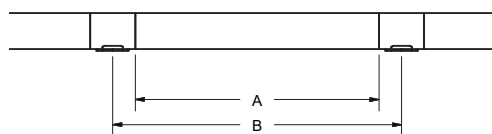
End post End post - Stainless steel End post - Zinc coated	TB2000-0001-EPYE TB2000-0001-EPYES TB2000-0001-EPYEZ	
Mid post Mid post - Stainless steel Mid post - Zinc coated	TB2000-0001-MPYE TB2000-0001-MPYES TB2000-0001-MPYEZ	

CURVES

Conn.tube Ø200 Curve 350 mm - YE	TB2000-0350-C200YE	
Conn.tube Ø200 - 90° Curve 350 mm - YE	TB2000-0350-C209YE	
Conn.tube Ø250 Curve 350 mm - YE	TB2000-0350-C250YE	

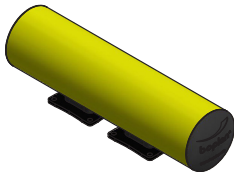
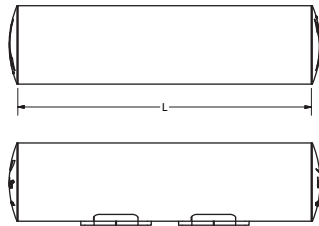
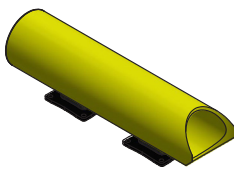
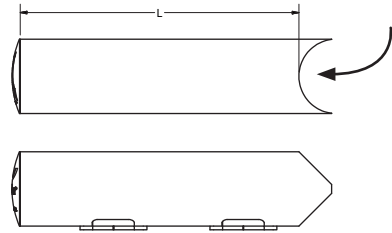
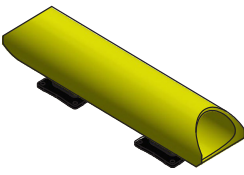
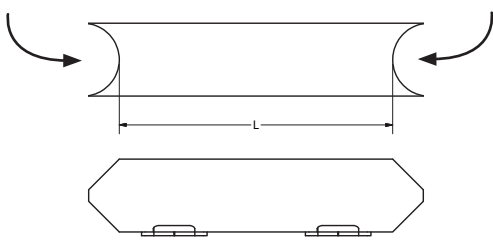
RAIL SETS

	Tube length (A)	CC length (B)	Reference
Standard rail	750 mm	1000 mm	TB2000-0750-1000YE
Standard rail	950 mm	1200 mm	TB2000-0950-1200YE
Standard rail	1150 mm	1400 mm	TB2000-1150-1400YE
Standard rail	1350 mm	1600 mm	TB2000-1350-1600YE
Standard rail	1550 mm	1800 mm*	TB2000-1550-1800YE
Standard rail	1750 mm	2000 mm*	TB2000-1750-2000YE
Short rail	600-1349 mm	850-1599 mm	TB2009-1599-SRYE
Long rail	1351-1749 mm	1601-2000 mm*	TB2009-2000-LRYE



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

REFERENCE LIST - TB200

FIXED UNITS				
TYPE	LENGTH	YELLOW		
no curves	750 mm	TB2000-0750-FUYE TB2000-0750-FUYES TB2000-0750-FUYEZ		
	751-1750 mm	TB2001-1750-FUYE TB2001-1750-FUYES TB2001-1750-FUYEZ		
1 curve	750 mm	TB2000-0750-FU1CYE TB2000-0750-FU1CYES TB2000-0750-FU1CYEZ		DEFINE AS LEFT OR RIGHT 1/ UP-DOWN-CONTINU 2/ Ø200 - Ø250 
	751-1750 mm	TB2001-1750-FU1CYE TB2001-1750-FU1CYES TB2001-1750-FU1CYEZ		
2 curves	750 mm	TB2000-0750-FU2CYE TB2000-0750-FU2CYES TB2000-0750-FU2CYEZ		DEFINE AS LEFT OR RIGHT 1/ UP-DOWN-CONTINU 2/ Ø200 - Ø250 
	751-1750 mm	TB2001-1750-FU2CYE TB2001-1750-FU2CYES TB2001-1750-FU2CYEZ		