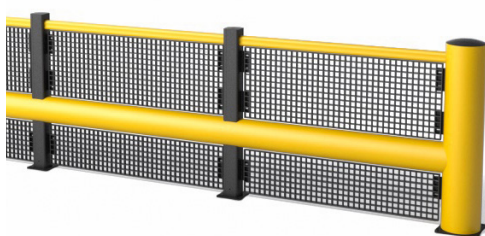


TB 550 PLUS FENCE

SAFETY BARRIERS

Revision: 6 July 2026 9:37 AM
Boplan reference: TA5500...



PRODUCT SPECIFICATIONS

APPLICATION	
Environment	Perimeter edge protection in Multi-Storey Car Parks / Surface Car Parks / Access Ramps etc.
MATERIAL	
Posts and rails	Extrilene - UV resistant - Fire class E [®] - Non conductive - Impervious to most chemicals ^{**}
Caps	Sustainable elastomer
Mesh panel	Glass fiber reinforced composite
STANDARD COLOURS	
Mid post	Black RAL 9005
End post/ Impact tube	Yellow RAL 1003
Mesh panel	Black RAL 9005
BASEPLATES	
	ZC / Non-countersunk
Material	Steel 37
Coating	Electroplated + Laquered
Colour	Mat black

[®]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

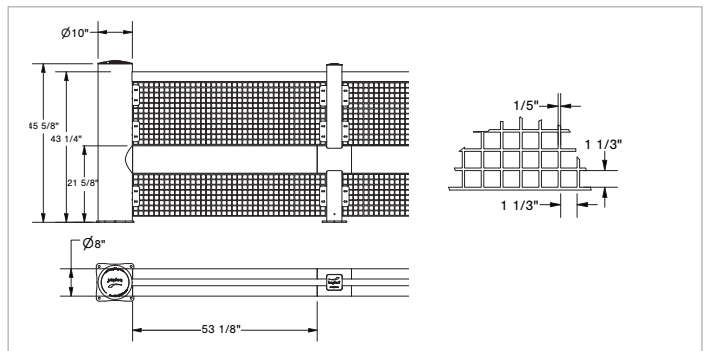
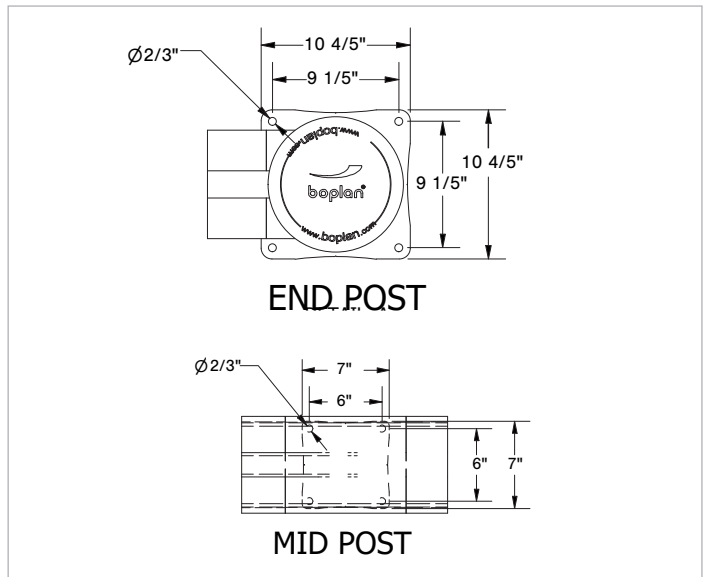
			ZC (Zinc coated)	SS (Stainless steel)
STANDARD	Wedge anchor		1/2 in x 4 1/2 in	Not available
	Wedge anchor		M12 x 120 mm	Not available
ALTERNATIVES	Anchor rod (Chemical)		M12 x 120 mm + Chemical resin	Not available
	Asphalt anchor		Bolt M10 x 40 mm + Screw Ø16 mm	Not available
	Spit anchor		Bolt M12 x 100 mm + Plug Ø20 mm	Not available

FEATURES AND FUNCTIONALITY - TB 550 PLUS FENCE

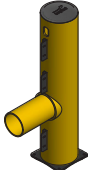
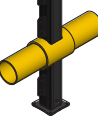
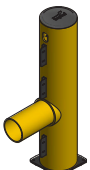
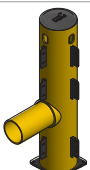
SIZE	
Height end posts	45 5/8 in
Height mid post	46 1/4 in
Profile section tubes	Ø8 in (2/5 in thick)
Profile section end posts	Outer tube: Ø10 in (2/5 in thick) Inner profile: 4 2/5 x 4 2/5 (1/3 in thick)
Profile section mid posts	Profile: 4 2/5 x 4 2/5 in (1/3 in thick)
Standard rail length	CC60 in (Tube length - 50 in)
Baseplate	End Post: 10 4/5 x 10 4/5 (1/3 in thick) Mid Post: 7 x 7 (1/3 in thick)
Mesh inner dimension	1 1/3 x 1 1/3 in
Mesh wall thickness	1/5 in
Mesh panel total thickness	3/5 in

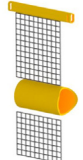
REQUIREMENTS	
Concrete quality	minimum 4000 PSI (C25/30)
Concrete floor plate thickness	minimum 6 in
Concrete slab dimension around posts (in)	23 2/3 (h) x 23 2/3 (w) x 19 3/4 (d)
Operational temperature	14°F up to 104°F
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments.

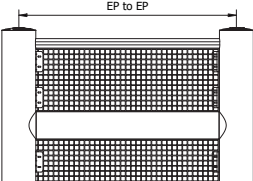
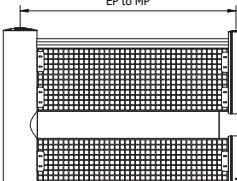
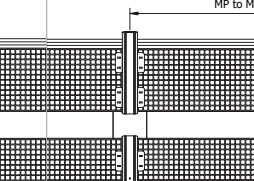
 IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN TB 550 PLUS FENCE		
IMPACT RATING	45°	90°
E80	< 80 kJ	
E60	< 60 kJ	
E50	< 50 kJ	
E40	< 40 kJ	
E35	< 35 kJ	
E30	< 30 kJ	
E25	< 25 kJ	
E20	< 20 kJ	
E15	< 15 kJ	
E10	< 10 kJ	
E5	< 5,0 kJ	
E2	< 2,5 kJ	
	25,9 kJ	18,3 kJ
TEST CONDITIONS TEMPERATURE: 20°C / 68°F IMPACT HEIGHT: 460 mm / 18.11 Inch IMPACT ANGLE: 90° TEST FLOOR: CONCRETE SLAB C25/30 - 160 mm / 6 Inch MANUFACTURER ANCHOR PULL OUT: 7,9 kN		
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 IL-TA550-20230920		
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5		



FEATURES AND FUNCTIONALITY - TB 550 PLUS FENCE

POSTS		
End post - ZC - YE	TA5500-0001-EPYEZ	
Mid post - ZC - YE	TA5500-0001-MPYEZ	
Corner post 90° - UP - YE	TA5500-0001-CPUYEZ	
Corner post 90° - DOWN - YE	TA5500-0001-CPDYEZ	

CURVES		
Conn.tube Ø10 in - 90° Curve 14 in - YE	TA5500-0350-C259YE	

STANDARD RAIL SETS				
Tube length	CC length	End post to End post	End post to Mid post	Mid post to Mid post
54 in	63 in	TA5500-1350-1600YE	TA5501-1350-1600YE	TA5502-1350-1600YE
47 in	57 in	TA5500-1200-1450YE	TA5501-1200-1450YE	TA5502-1200-1450YE
41 in	51 in	TA5500-1050-1300YE	TA5501-1050-1300YE	TA5502-1050-1300YE
35 in	45 in	TA5500-0900-1150YE	TA5501-0900-1150YE	TA5502-0900-1150YE
30 in	40 in	TA5500-0750-1000YE	TA5501-0750-1000YE	TA5502-0750-1000YE
24 in	33 in	TA5500-0600-0850YE	TA5501-0600-0850YE	TA5502-0600-0850YE
				

68 <<< SPECSHEET

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PRODUCT COMPLIANCE - TB 550 PLUS FENCE

BS6399 - part 1: 1996

In short	This British Standard defines how to calculate the minimum horizontal force required to be withstood by a vehicle barrier.
Assumptions	Minimum car bumper height: 14.8 in Width of impact vehicle: 59 in m: mass car: 3307 lbs v: speed car: 10 mph D _c : Deformation of car bumper : 4 in D _b : Deformation of barrier: 20 in
force (F)	According to the standard, two methods are described to calculate the minimum force a vehicle barrier needs to withstand: 1/ for rigid barriers 2/ for flexible barriers Since Boplan barriers are flexible, the second method is used. The formula to calculate the force: $F = (0.5 \times m \times v^2) / (D_c + D_b)$ $F = 25 \text{ kN}$ The BS6399 describes 3 different minimum force requirements for parking barriers: 1/2 x Force: Where safety barriers protect both sides of parking ramps. 1x Force: All other safety barrier areas. 2 x Force: Where safety barriers are exposed to a potential run-up area, in a straight length, of more than 65.6 ft.
1 x force	25 kN
2 x force	50 kN
1/2 force	12.5 kN
CONCLUSION	The Boplan Armco barrier has been positively tested against the 3 force levels and is therefore fully compliant with BS6399.

BS6180:1995

In short	This British standard predates the BS6399 and has the below requirements.
Minimum height barrier	43.3 in
Maximum gap (where a sphere can pass through)	4 in
Minimum handrail loading (force)	1.5 kN
Minimum infill panels loading (force)	1.5 kN
CONCLUSION	The Boplan Armco barrier is fully compliant with BS6180:1995

Other recommendations

In short	A recommendation published in 2002 by the British Institute of Civil Engineers (ICE)
Minimum impact height	17 1/2 in
Anti-climb barrier	The barrier should be designed in such a way that it is not possible to climb it.
CONCLUSION	The Boplan Armco barrier fulfils the recommendations.

SAFETY BARRIER STRENGTH REQUIREMENTS FOR PARKINGS ACCORDING TO BS6399

-  1/2x force
-  1x force
-  2x force

