

BO145L EV

BOLLARDS AND HEIGHT LIMITERS

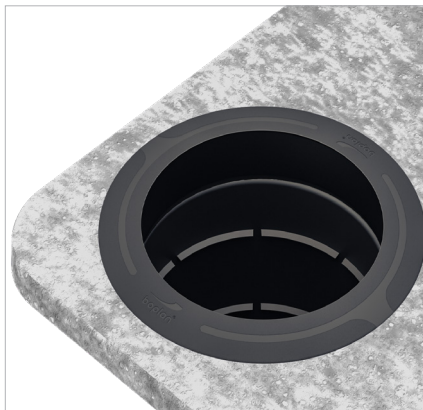
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Boplan reference: BO145L0-...



PRODUCT SPECIFICATIONS

APPLICATION	
Environment	The BO145L EV helps prevent accidents, minimizes damage, and maintains safe accessibility to electric mobility. With their visibility and impact-resistant flexibility, EV-bollards are the most effective solution for the protection of charging stations against potential vehicle impacts.
Impact performance	2000 Joule (Eq. to 2 ton - 5 km/h)
OPTIONAL	
Stripes	Colored reflective stripes providing a high level of visibility.
MATERIAL	
Tube	Novilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals***
Cap	Sustainable elastomer
Socket	Sustainable elastomer
STANDARD COLORS	
Bollard	Standard: Black RAL 9005 Also available in Yellow RAL 1003 and White RAL 9003 (multicolor)


*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.




FEATURES AND FUNCTIONALITY - B0145L EV



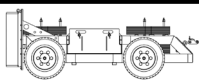
SIZE	
Height	1000 mm 750 mm
Profile section post	Tube: Ø145 mm (8 mm thick)
Seal	ID: Ø145 mm OD: Ø195mm
Socket	Diameter: Ø164 mm Height: 258 mm

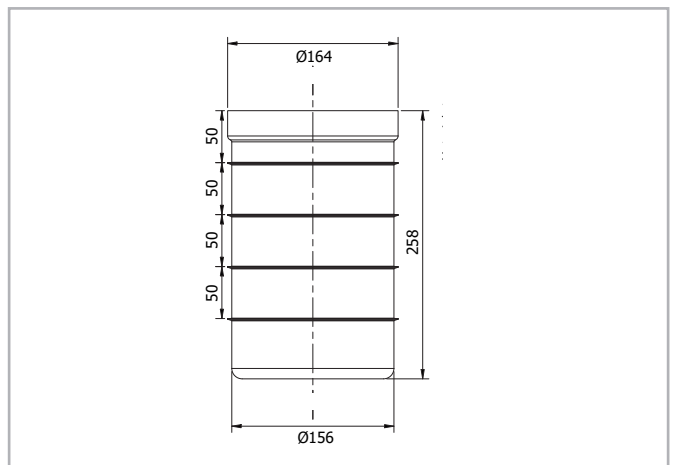
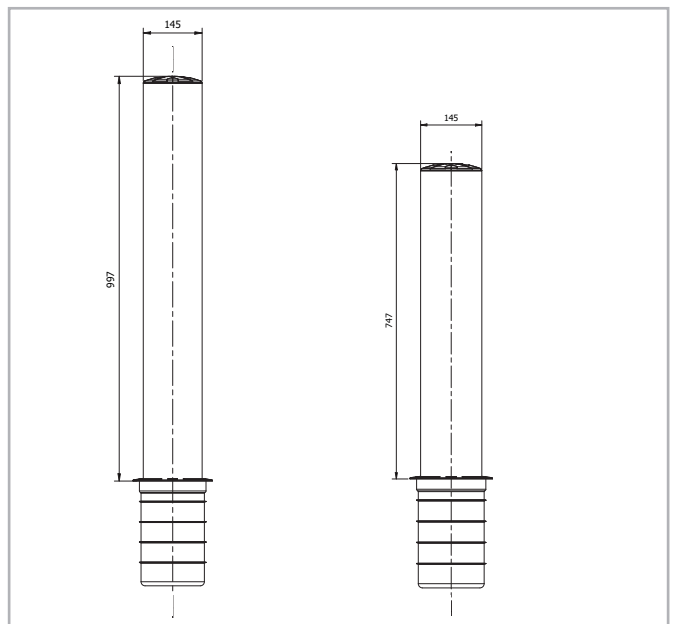
REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	400 (h) x 400 (w) x 300 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Drainage hole in socket



IMPACT LABEL FOR SAFETY BARRIERS

BOPLAN B0145L EV		
IMPACT RATING		
E50	< 50 kJ	
E40	< 40 kJ	
E30	< 30 kJ	
E25	< 25 kJ	
E20	< 20 kJ	
E15	< 15 kJ	
E12	< 12 kJ	
E10	< 10 kJ	
E7	< 7.5 kJ	
E5	< 5.0 kJ	
E2	< 2.5 kJ	2 kJ
E1	< 1.0 kJ	

IMPACT RESULTS Deflection: At maximum impact energy  $\alpha = 20.8^\circ$ $D_i = 262 \text{ mm} / 10 \text{ 1/4 inch}$	SUCCESS CRITERIA VEHICLE STOPPED ASI (ACCELERATION SEVERITY INDEX) < 0.5
TEST CONDITIONS TEMPERATURE: 22°C / 41°F IMPACT HEIGHT: 450 mm / 17 3/4 Inch → D_i : 262 mm / 110 1/4 Inch → α_i : 20.8° TEST FLOOR: CONCRETE SLAB C25/30 - 190 mm / 7 1/2 Inch	BOPLAN TEST LAB Muizelstraat 12 8560 Moorsele Belgium 
TEST VEHICLE: TYPE: BOPLAN IMPACT TEST VEHICLE WEIGHT: 3775 Kg / 8322.45 lbs SIZE (L x W x h): 3100 x 1100 x 1150 mm / 122 x 43 1/4 x 45 1/4 Inch CONTACT AREA, STEEL BUMPER WIDTH: 1000 mm / 39 1/4 Inch 	IL-B0145LEV-20230927



REFERENCE LIST - B0145L EV

	BLACK	MULTICOLOR <input type="checkbox"/> <input type="checkbox"/>
1000 mm	B0145L0-1000-01EVBL	B0145L0-1000-01EVMC
750 mm	B0145L0-0750-01EVBL	B0145L0-0750-01EVMC

STRIPES			
	White	Black	Yellow
1 STRIPE	PA0301-0145-0001WH	PA0301-0145-0001BL	PA0301-0145-0001YE
	