

FLIP 120 BOPLAN KICK RAILS AND WHEEL CHOCKS

Revision: 20 November 2023 3:23 PM
Boplan reference: PL1210...







PRODUCT SPECIFICATIONS

APPLICATION	
Environment	<ul style="list-style-type: none"> Ground level protection Wall protection (refrigerator walls, decorative walls, sandwich panels) Wheel guide for pallet trucks or trolleys in busy traffic lanes Protection of machines and infrastructure Below a Boplan traffic barrier system Indoor and outdoor use Food Industry
MATERIAL	
Plinth	Novilene® - UV resistant - Fire class E ⁺ - Non conductive - Impervious to most chemicals**
Endcap	SEBS rubber Black
STANDARD COLORS	
Plinth	Yellow - Black / Black - Yellow

*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	Concrete screw	 Ø12mm x 100mm	Not available
	Anchor rod (Chemical)	 M12 x 120mm + Chemical resin	M12 x 120mm + Chemical resin
ALTERNATIVES	Wedge Anchor	 M12 x 120mm	Not available
	Asphalt anchor	 Bolt M10 x 40mm + Screw Ø16mm	Not available



FEATURES AND FUNCTIONALITY - FLIP 120

BOPLAN FLIP 120		
IMPACT RATING 	45°	90° PAS 13:2017 compliant
	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	4.2kJ	3kJ
E2 < 2,5 kJ		
DEFLECTION At maximum impact energy 	$\alpha = NA$ $D = NA$	$\alpha = 54^\circ$ $D = 99 \text{ mm}$
TEST CONDITIONS TEMPERATURE: 20°C IMPACT ANGLE: 90° - IMPACT HEIGHT: 65 mm STANDARD PRODUCT LENGTH: 2000 mm TEST FLOOR: CONCRETE C25/30 - 160 mm MANUFACTURER ANCHOR PULL OUT: 12.6 kN	TEST VEHICLE WEIGHT: 3762 KG TYPE: BOPLAN IMPACT TEST VEHICLE SIZE (L x W x h): 3100 x 1100 x 1150 mm CONTACT AREA: STEEL BUMPER WIDTH: 1000 mm	BOPLAN TEST LAB Muizelstraat 12 8560 Moorsele Belgium
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0.5		

SIZE	
Height	120 mm
Profile section	120 mm x 120 mm (10 mm thick)
Standard rail length	1000 mm - 2000 mm - 3000 mm (other sizes: 500 - 2999 mm)

REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness	minimum 150 mm
Operational temperature	-10°C up to +40°C
Water and humidity	Zinc coated fixations: indoor and outdoor use in most environments

REFERENCE LIST - FLIP 120

	YELLOW/Black	BLACK/Yellow
500mm (2fix)	PL1210-0500-0001YB	PL1210-0500-0001BY
1000mm (2fix)	PL1210-1000-0001YB	PL1210-1000-0001BY
2000mm (3fix)	PL1210-2000-0001YB	PL1210-2000-0001BY
3000mm (4fix)	PL1210-3000-0001YB	PL1210-3000-0001BY
501-1300mm (2fix)	PL1211-1300-0001YB	PL1211-1300-0001BY
1301-2200mm (3fix)	PL1211-2200-0001YB	PL1211-2200-0001BY
2201-2999mm (4fix)	PL1211-2999-0001YB	PL1211-2999-0001BY

