

FLIP 180M BOPLAN KICK RAILS AND WHEEL CHOCKS





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Boplan reference: PL1800...

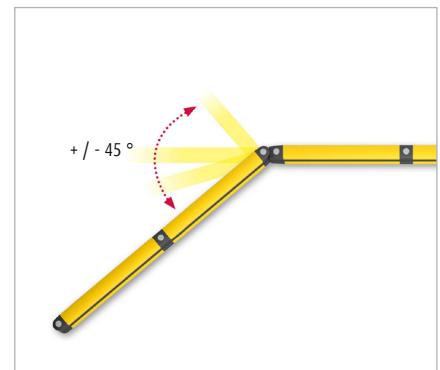
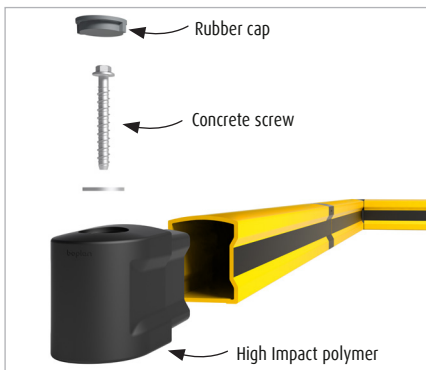
PRODUCT SPECIFICATIONS

APPLICATION	
Environment	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 infrastructures - Below a Boplan traffic barrier system - Indoor and outdoor use - Food industry
MATERIAL	
Connection pieces / Rails	Novilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals***
Cap / Seal	Rubber - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**
STANDARD COLORS	
Connection pieces	Black
Rail	Yellow / Black - Black / Yellow (Bi-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	Concrete screw		Ø17mm x 135mm	Not available
	Anchor rod (Chemical)		M16 x 120mm + Chemical resin	M16 x 120mm + Chemical resin
ALTERNATIVES	Wedge Anchor		M16 x 140mm	Not available
	Asphalt anchor		Bolt M16 x 50mm + Screw Ø22x 100mm	Not available



FEATURES AND FUNCTIONALITY - FLIP 180M

 IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN FLIP 180 M		
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	4.9kJ	3.5kJ
E2 < 2,5 kJ		
DEFLECTION At maximum impact energy	D = NA	D = 197 mm
TEST CONDITIONS TEMPERATURE: 20°C IMPACT ANGLE: 90° - IMPACT HEIGHT: 125 mm STANDARD RAIL LENGTH: 1400 mm TEST FLOOR: CONCRETE C25/30 - 160 mm MANUFACTURER ANCHOR PULL OUT: 21 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 Muiselstraat 12 8560 Moorsele Belgium
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) <0.5		

SIZE	
Height	180 mm
Profile section	180 mm x 150 mm (10 mm thick)
Standard rail length	see next page

REQUIREMENTS	
Compatibility	Below TB 400 / TB400 Plus / HP Plus - ...
Floor	Industrial concrete, flat surface
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150
Operational temperature	-10°C up to +40°C
Water and humidity	Zinc coated fixations: indoor and outdoor use in most environments

