

# FLIP120L

## KICK RAILS AND WHEEL STOPS

Revision: 28 January 2025 8:48 AM  
Boplan reference: PL1210...





### PRODUCT SPECIFICATIONS

APPLICATION	
Environment	<ul style="list-style-type: none"> <li>Ground level protection</li> <li>Wall protection (refrigerator walls, decorative walls, sandwich panels)</li> <li>Wheel guide for pallet trucks or trolleys in busy traffic lanes</li> <li>Protection of machines and infrastructure</li> <li>Below a Boplan traffic barrier system</li> <li>Indoor and outdoor use</li> <li>Food Industry</li> </ul>
MATERIAL	
Plinth	Extrilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**
Endcap	Sustainable elastomer
STANDARD COLOURS	
Plinth	Yellow/Black - Black/Yellow (Yellow RAL 1003 & Black RAL 9005)

\*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
	Wedge Anchor		M12 x 120mm	Not available
	Asphalt anchor		Bolt M10 x 40mm + Screw Ø16mm	Not available



## FEATURES AND FUNCTIONALITY - FLIP120L

boplan IMPACT LABEL FOR SAFETY BARRIERS		
BOPLAN FLIP120L		
IMPACT RATING	45°	90°
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	5.3 kJ	4.2 kJ
E2 < 2.5 kJ		
E1 < 1.0 kJ		
<b>IMPACT RESULTS</b> Deflection: At maximum impact energy  D= 129 mm / 7.5 inch		<b>SUCCESS CRITERIA</b> VEHICLE STOPPED ASI (ACCELERATION SEVERITY INDEX) <0.5
<b>TEST CONDITIONS</b> TEMPERATURE: 20°C / 68°F IMPACT HEIGHT: 88 mm / 3.46 inch → D: 129 mm / 7.5 inch TEST FLOOR: CONCRETE SLAB C25/30 - 150 mm / 6 inch		<b>BOPLAN TEST CENTRE</b> Muizelstraat 12 8560 Moorsele Belgium 
<b>TEST VEHICLE:</b> 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		<b>IL-PL121-20240711</b>

## 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)

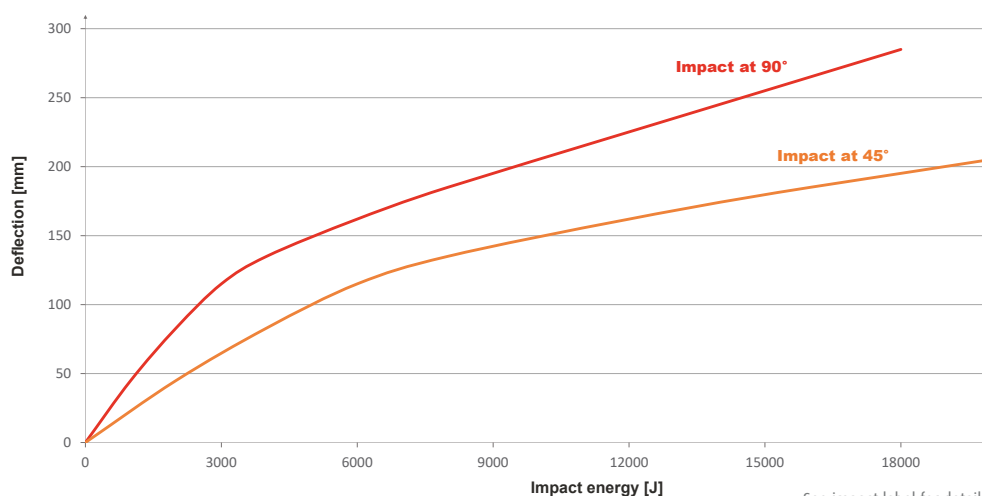
## REQUIREMENTS

Concrete quality	minimum C25/30
Concrete floor plate thickness	minimum 150 mm
Operational temperature	-10°C up to +40°C
Water and humidity	<b>Zinc coated fixations:</b> 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

## Deflection curve



See impact label for detailed information on the test conditions.

## TECHNICAL DRAWING - FLIP120L

