

# FLIP PLUS BOPLAN KICK RAILS AND WHEEL CHOCKS


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Boplan reference: PL2300...

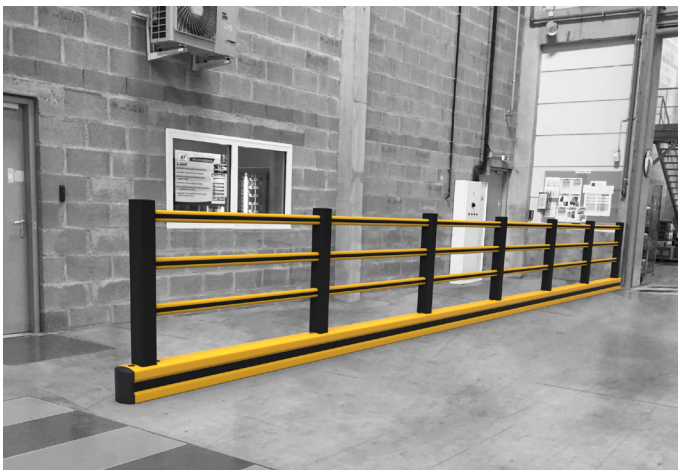
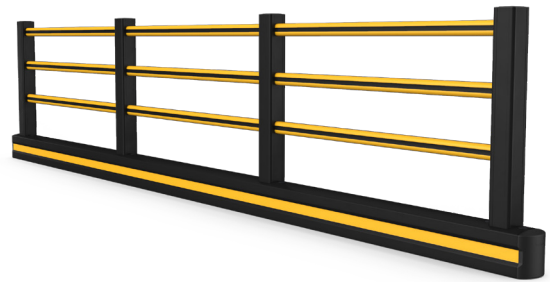
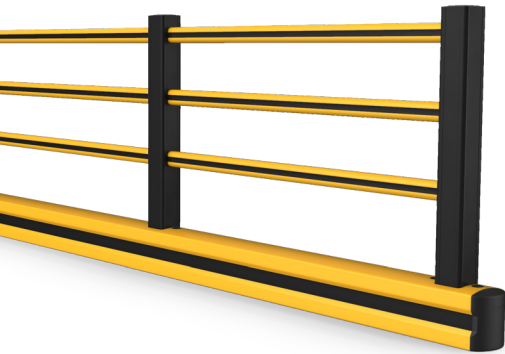
## PRODUCT SPECIFICATIONS

APPLICATION	
Environment	<b>Ground level protection + Handrail system</b> Create walkways and protect pedestrians from pallet trucks, lift trucks, forklifts or other vehicles. The plinth profile prevents goods or pallets sliding under the rails and hitting pedestrians or causing damage to machines or equipment.
MATERIAL	
Connection pieces / Rails	Novilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals***
(End) Caps	Rubber - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**
STANDARD COLORS	
Plinth Profiles	Yellow/Black - Black/Yellow ( Bi-color )
Hand Rail	Yellow/Black (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

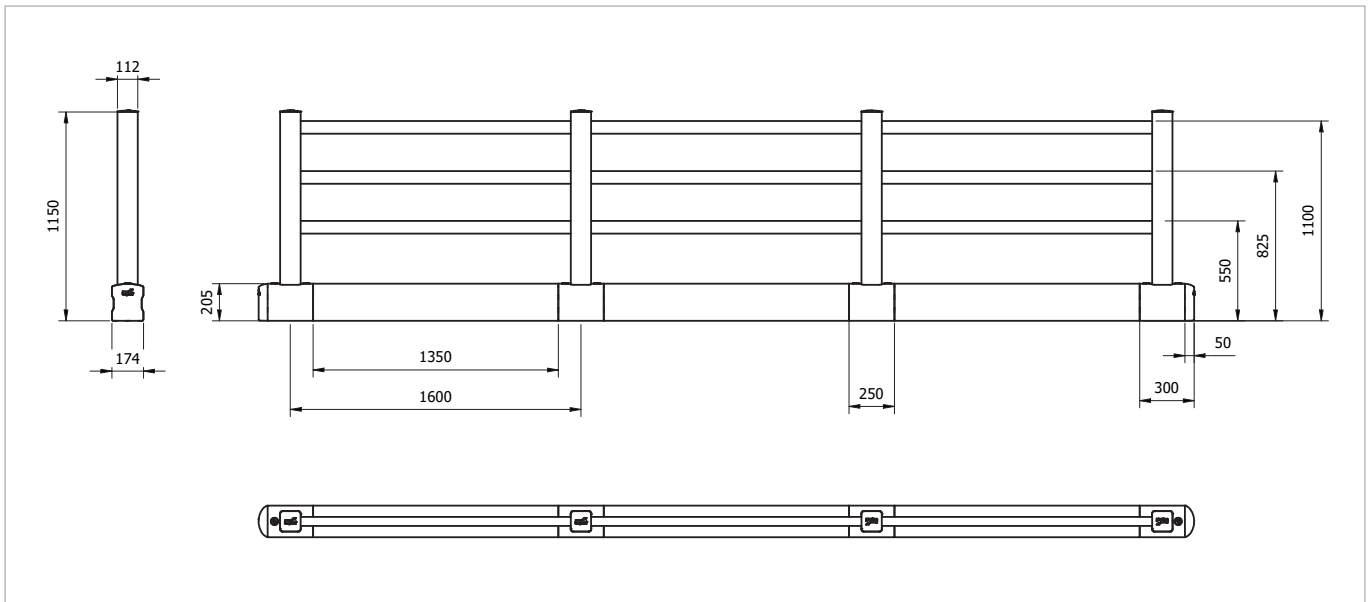


**FEATURES AND FUNCTIONALITY - FLIP PLUS**

BOPLAN FLIP PLUS		
		
<b>IMPACT RATING</b>	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	21.5kJ	
E15 < 15 kJ		15.2kJ
E10 < 10 kJ		
E5 < 5,0 kJ		
E2 < 2,5 kJ		
<b>DEFLECTION</b> At maximum impact energy	D = NA	D = 249 mm
<b>TEST CONDITIONS</b> TEMPERATURE: 20°C IMPACT ANGLE: 90° - IMPACT HEIGHT: 125 mm STANDARD RAIL LENGTH: 1350 mm TEST FLOOR: CONCRETE C25/30 - 160 mm MANUFACTURER ANCHOR PULL OUT: 21 kN	<b>TEST VEHICLE</b> 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	<b>BOPLAN TEST LAB</b>  Muizelstraat 12 8560 Moorsele Belgium
<b>SUCCESS CRITERIA</b> VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) <0.5		

SIZE	
Height plinth	205 mm
Profile section plinth	205 mm x 174 mm (10 mm thick)
Height posts	1150 mm
Profile section posts	112 mm x 112 mm ( 10 mm thick )
Profile section Handrails	50 mm x 70 mm ( 6 mm thick )
Standard rail length	see next page

REQUIREMENTS	
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	<b>Zinc coated fixations:</b> indoor and outdoor use in most environments

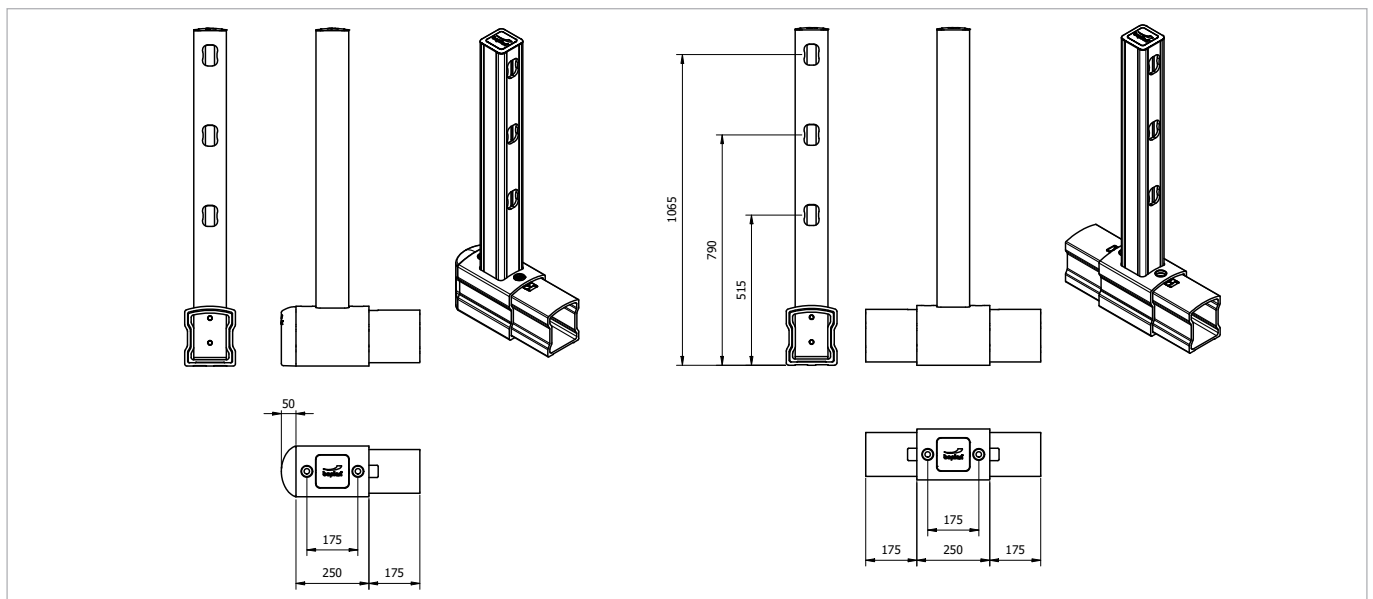


**REFERENCE LIST - FLIP PLUS 3 RAILS**



CONNECTION PIECES		
Endpost Yellow/Black 3R	PL2300-0001-EPYB	
Endpost Black/Yellow 3R	PL2300-0001-EPBY	
Midpost Yellow/Black 3R	PL2300-0001-MPYB	
Midpost Black/Yellow 3R	PL2300-0001-MPBY	

RAIL SETS			
	Rail length	CC length	Reference
Standard rail	750 mm	1000 mm	PL2300-0750-1000YB
Standard rail	750 mm	1000 mm	PL2300-0750-1000BY
Standard rail	950 mm	1200 mm	PL2300-0950-1200YB
Standard rail	950 mm	1200 mm	PL2300-0950-1200BY
Standard rail	1150 mm	1400 mm	PL2300-1150-1400YB
Standard rail	1150 mm	1400 mm	PL2300-1150-1400BY
Standard rail	1350 mm	1600 mm	PL2300-1350-1600YB
Standard rail	1350 mm	1600 mm	PL2300-1350-1600BY
Standard rail	1550 mm	1800 mm	PL2300-1550-1800YB
Standard rail	1550 mm	1800 mm	PL2300-1550-1800BY
Standard rail	1750 mm	2000 mm	PL2300-1750-2000YB
Standard rail	1750 mm	2000 mm	PL2300-1750-2000BY
Non Std rail	600 - 1349 mm	850 - 1599 mm	PL2301-1599-SRYB
Non Std rail	600 - 1349 mm	850 - 1599 mm	PL2301-1599-SRBY
Non Std rail	1351 - 1750 mm	1601 - 2000 mm	PL2301-2000-LRYB
Non Std rail	1351 - 1750 mm	1601 - 2000 mm	PL2301-2000-LRBY

The impact performance has not been tested for tube lengths >1400 mm.  
Only use longer lengths for non - critical applications.



**REFERENCE LIST - FLIP PLUS 2 RAILS**

CONNECTION PIECES		
Endpost Yellow/Black 2R	PL2200-0001-EPYB	
Endpost Black/Yellow 2R	PL2200-0001-EPBY	
Midpost Yellow/Black 2R	PL2200-0001-MPYB	
Midpost Black/Yellow 2R	PL2200-0001-MPBY	

RAIL SETS			
	Rail length	CC length	Reference
Standard rail	750 mm	1000 mm	PL2200-0750-1000YB
Standard rail	750 mm	1000 mm	PL2200-0750-1000BY
Standard rail	950 mm	1200 mm	PL2200-0950-1200YB
Standard rail	950 mm	1200 mm	PL2200-0950-1200BY
Standard rail	1150 mm	1400 mm	PL2200-1150-1400YB
Standard rail	1150 mm	1400 mm	PL2200-1150-1400BY
Standard rail	1350 mm	1600 mm	PL2200-1350-1600YB
Standard rail	1350 mm	1600 mm	PL2200-1350-1600BY
Standard rail	1550 mm	1800 mm	PL2200-1550-1800YB
Standard rail	1550 mm	1800 mm	PL2200-1550-1800BY
Standard rail	1750 mm	2000 mm	PL2200-1750-2000YB
Standard rail	1750 mm	2000 mm	PL2200-1750-2000BY
Non Std rail	600 - 1349 mm	850 - 1599 mm	PL2201-1599-SRYB
Non Std rail	600 - 1349 mm	850 - 1599 mm	PL2201-1599-SRBY
Non Std rail	1351 - 1750 mm	1601 - 2000 mm	PL2201-2000-LRYB
Non Std rail	1351 - 1750 mm	1601 - 2000 mm	PL2201-2000-LRBY

\* The impact performance has not been tested for tube lengths >1400 mm.  
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