

# HP PLUS 3R + PLINTH HANDRAILS

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Boplan reference: HQ112...






## PRODUCT SPECIFICATIONS

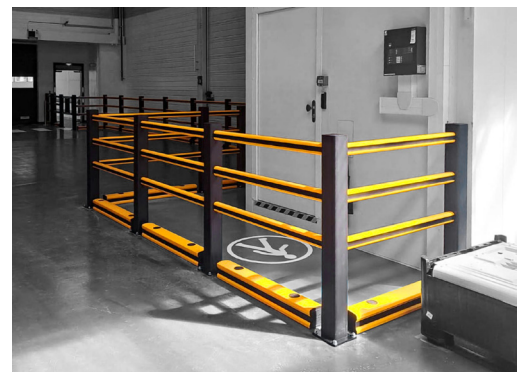
APPLICATION			
Protection	Robust handrail system for the physical demarcation of pedestrian zones.		
Impact performance at 90°	POST: 3300 Joule (Eq. to 2,5 ton - 5,8 km/h)		
	RAIL: 5500 Joule (Eq. to 2,5 ton - 7,5 km/h)		
	PLINTH: 4200 Joule (Eq. to 2,5 ton - 6,6 km/h)		
MATERIAL			
Posts and rails	Extrilene® - UV resistant - Fire class E <sup>s</sup> - Non conductive - Impervious to most chemicals <sup>**</sup>		
Caps	Sustainable elastomer		
STANDARD COLOURS			
End post / Mid post	Black RAL 9005		
Handrails	Yellow RAL 1003		
Plinth	Yellow/Black		
BASEPLATES			
	Steel	Zinc Coated Steel	Stainless steel
Material	Steel 37	Steel 37	Stainless steel 304
Coating	Lacquered	Electroplated + Laquered	No lacquer / No coating
Colour	High gloss black	Mat black	Natural colour

\*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	Wedge anchor		M12 x 120mm	M12 x 120mm
	Anchor rod (Chemical)		M12 x 120mm + Chemical resin	M12 x 120mm + Chemical resin
ALTERNATIVES	Concrete screw		Ø12mm x 100mm	Not available
	Asphalt anchor		Bolt M10 x 40mm + Screw Ø16mm	Not available
	Spit anchor		Bolt M12 x 100mm + Plug Ø20mm	Not available

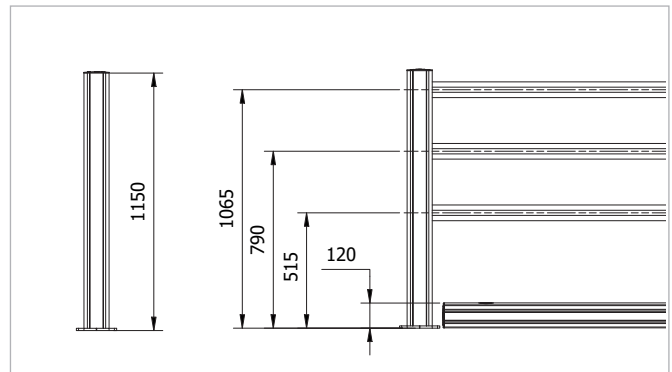
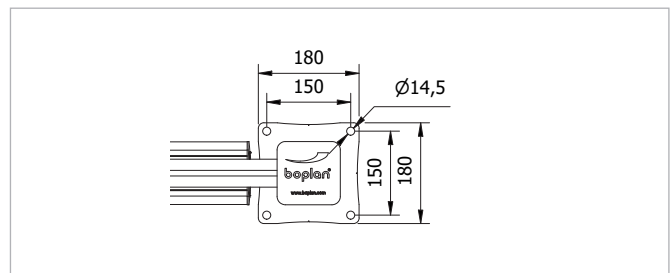


**FEATURES AND FUNCTIONALITY - HP+PL - 3R**






SIZE	
Height end / mid posts	1150 mm
Profile section handrail	50 mm x 70 mm (6 mm wall thickness)
Profile section plinth	120 mm x 120 mm (10 mm wall thickness)
Profile section posts	112 mm x 112 mm (10 mm wall thickness)
Standard rail length	Standard length: 1500 mm (center - center dimension)
Baseplate	180 mm x 180 mm (10 mm thick)

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	<b>Steel</b> (standard): dry indoor use only. <b>Zinc coated:</b> outdoor use in most environments. <b>Stainless steel:</b> outdoor use or frequent exposure to water and humidity.

BOPLAN HP PLUS 3R		
IMPACT LABEL FOR SAFETY BARRIERS		
IMPACT RATING	45°	90°
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	7,8 kJ	5,5 kJ
E5 < 5,0 kJ		
E2 < 2,5 kJ		
<b>TEST CONDITIONS</b> TEMPERATURE: 20°C / 68°F IMPACT HEIGHT: 500 mm / 20 Inch IMPACT ANGLE: 90° TEST FLOOR: CONCRETE SLAB C25/30 - 160 mm / 6 inch MANUFACTURER ANCHOR PULL OUT: 7,9 kN	<b>TEST VEHICLE</b> WEIGHT: 2300 KG / 5070.63 lbs TYPE: COMMERCIAL FORK LIFT SIZE (L x W x h): 1890x1020x1970 mm / 74x40x78 Inch CONTACT AREA: STEEL BUMPER WIDTH: 600 mm / 24 Inch	<b>BOPLAN TEST CENTRE</b> Muizelstraat 12 8560 Moorsele Belgium
<b>SUCCESS CRITERIA</b> VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) <0.5		<b>IL-HP112-20260428</b>



**REFERENCE LIST - HP+PL - 3R**

POSTS			POSTS		
End post - 3R End post - 3R - ZC End post - 3R - SS	HQ1120-0001-EPBL HQ1120-0001-EPBLZ HQ1120-0001-EPBLS		Corner post 90° - 3R Corner post 90° - 3R - ZC Corner post 90° - 3R - SS	HQ1120-0001-C90BL HQ1120-0001-C90BLZ HQ1120-0001-C90BLS	
Mid post - 3R Mid post - 3R - ZC Mid post - 3R - SS	HQ1120-0001-MPBL HQ1120-0001-MPBLZ HQ1120-0001-MPBLS		Corner post 135° - 3R Corner post 135° - 3R - ZC Corner post 135° - 3R - SS	HQ1120-0001-C45BL HQ1120-0001-C45BLZ HQ1120-0001-C45BLS	
T - post - 3R T - post - 3R - ZC T - post - 3R - SS	HQ1120-0001-TPBL HQ1120-0001-TPBLZ HQ1120-0001-TPBLS				

RAIL SETS (3R)		
Center - Center length	Plinth length	Reference
750 mm	515 mm (2 fix)	HQ1120-0750-0002YE
1000 mm	765 mm (2 fix)	HQ1120-1000-0002YE
1250 mm	1015 mm (2 fix)	HQ1120-1250-0002YE
1500 mm	1265 mm (2 fix)	HQ1120-1500-0002YE
1750 mm	1515 mm (3 fix)	HQ1120-1750-0002YE
2000 mm	1765 mm (3 fix)	HQ1120-2000-0002YE
750 - 1520 mm	515 - 1265 mm (2 fix)	HQ1121-1520-0002YE
1521 - 2000 mm	1266 - 1765 mm (3 fix)	HQ1121-2000-0002YE
CORNER RAIL SETS 90° (3R)		
Center - Center length	Plinth length	Reference
1500 mm	1265 mm (2 fix)	HQ1120-1500-C91YE
750 - 1520 mm	515 - 1265 mm (2 fix)	HQ1121-1520-C91YE
1521 - 2000 mm	1266 - 1765 mm (3 fix)	HQ1121-2000-C91YE