

HP PLUS 2R + PLINTH HANDRAILS

Revision: 20 April 2026 10:47 AM
Boplan reference: HS112...







PRODUCT SPECIFICATIONS

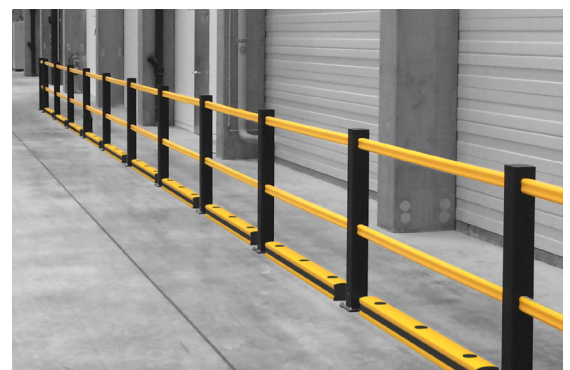
APPLICATION			
Protection	Robust handrail system for the physical demarcation of pedestrian zones.		
Impact performance at 90°	POST: 3300 Joule (Eq. to 2,5 ton - 3.6 mph)		
	RAIL: 3500 Joule (Eq. to 2,5 ton - 3.7 mph)		
MATERIAL			
Posts and rails	Extrilene - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**		
Caps	Sustainable elastomer		
STANDARD COLOURS			
End post / Mid post	Standard: Yellow RAL 1003 Alternative: Black RAL 9005		
Handrails	Standard: Yellow RAL 1003 Alternative: Black/Photolum; Black/Red; Black/Yellow; Yellow/black; Yellow/Photolum		
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	 1/2 in x 4 1/2 in	Not available
	Wedge anchor	 M12 x 120 mm	M12 x 120 mm
ALTERNATIVES	Concrete screw	 Ø12mm x 100mm	Not available
	Anchor rod (Chemical)	 M12 x 120 mm + Chemical resin	M12 x 120 mm + Chemical resin
	Asphalt anchor	 Bolt M10 x 40 mm + Screw Ø16 mm	Not available
	Spit anchor	 Bolt M12 x 100 mm + Plug Ø20 mm	Not available



FEATURES AND FUNCTIONALITY - HP + PL - 2R

SIZE	
Height end / mid posts	45 1/3 in
Profile section handrail	2 x 2 3/4 in (1/4 in wall thickness)
Profile section plinth	4.7 x 4.7 in (2/5 in wall thickness)
Profile section posts	4 2/5 x 4 2/5 in (2/5 in wall thickness)
Standard rail length	Standard length: 60 in (center - center dimension)
Baseplate	7 x 7 in (2/5 in thick)

REQUIREMENTS	
Concrete quality	minimum 4000 PSI (C25/30)
Concrete floor plate thickness (in)	minimum 6
Concrete slab dimension around posts (in)	15 3/4 (h) x 15 3/4 (w) x 11 4/5 (d)
Operational temperature	14°F up to 104°F
Water and humidity	Steel (standard): dry indoor use only. Zinc coated: outdoor use in most environments. Stainless steel: outdoor use or frequent exposure to water and humidity.

IMPACT LABEL FOR SAFETY BARRIERS

BOPLAN HP PLUS 2R		
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		
E5 > 5,0 kJ	5,0 kJ	
E2 > 2,5 kJ		3,5 kJ

TEST CONDITIONS

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

TEST VEHICLE

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

BOPLAN TEST CENTRE

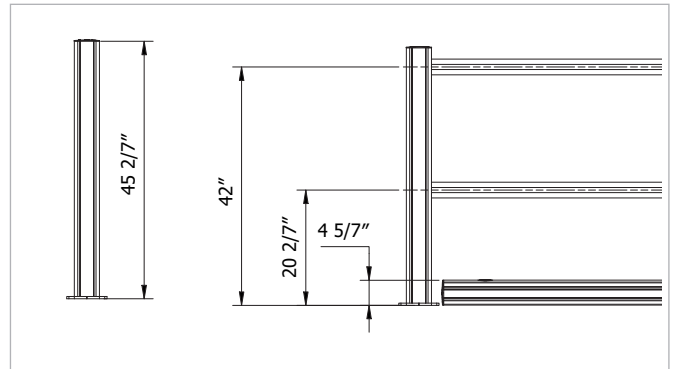
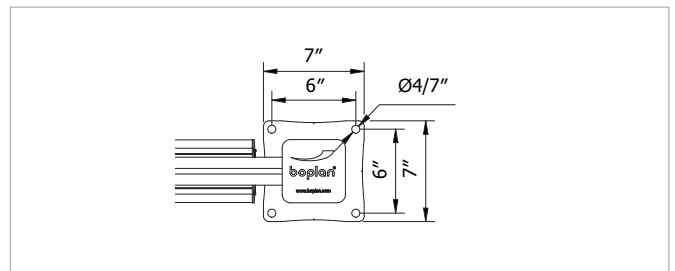
Muizelstraat 12

8560 Moorsele






Belgium

SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) <0.5

IL-HR112-20260428



REFERENCE LIST - HP+PL 2R

POSTS			POSTS		
End post - 2R End post - 2R - ZC End post - 2R - SS	HS1120-0001-EPBL HS1120-0001-EPBLZ HS1120-0001-EPBLS		Corner post 90° - 2R Corner post 90° - 2R - ZC Corner post 90° - 2R - SS	HS1120-0001-C90BL HS1120-0001-C90BLZ HS1120-0001-C90BLS	
Mid post - 2R Mid post - 2R - ZC Mid post - 2R - SS	HS1120-0001-MPBL HS1120-0001-MPBLZ HS1120-0001-MPBLS		Corner post 135° - 2R Corner post 135° - 2R - ZC Corner post 135° - 2R - SS	HS1120-0001-C45BL HS1120-0001-C45BLZ HS1120-0001-C45BLS	
T - post - 2R T - post - 2R - ZC T - post - 2R - SS	HS1120-0001-TPBL HS1120-0001-TPBLZ HS1120-0001-TPBLS				

RAIL SETS (2R)		
Center - Center length	Plinth length	Reference
29,5 in	20,3 in (2 fix)	HS1120-0750-0002YE
39,5 in	30,1 in (2 fix)	HS1120-1000-0002YE
49 in	40 in (2 fix)	HS1120-1250-0002YE
59 in	50 in (2 fix)	HS1120-1500-0002YE
70 in	59,5 in (3 fix)	HS1120-1750-0002YE
79 in	69,5 in (3 fix)	HS1120-2000-0002YE
29,5 - 59 in	20,5 - 49,5 in (2 fix)	HS1121-1520-0002YE
60 - 79 in	50 - 69,5 in (3 fix)	HS1121-2000-0002YE
CORNER RAIL SETS 90° (2R)		
Center - Center length	Plinth length	Reference
59 in	69,5 in (3 fix)	HS1120-1500-C91YE
29,5 - 59 in	20,5 - 49,5 in (2 fix)	HS1121-1520-C91YE
60 - 79 in	50 in - 69,5 in (3 fix)	HS1121-2000-C91YE