

HP PLUS 2R HANDRAILS

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Boplan reference: HR1120-...



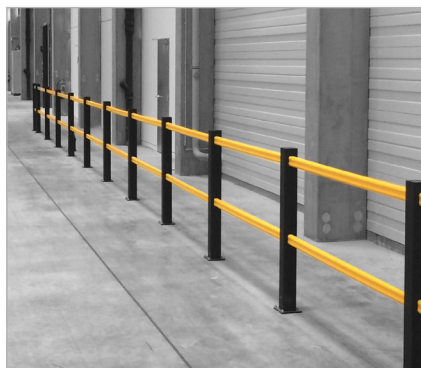
PRODUCT SPECIFICATIONS

APPLICATION			
Protection	Robust and economic 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: 3500 Joule (Eq. to 2,5 ton - 6,0 km/h)		
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		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 PLUS 2R

SIZE	
Height end posts	1150 mm
Height mid post	1150 mm
Profile section handrail	50 mm x 70 mm (6 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)

boplan **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	
SUCCESS CRITERIA VEHICLE STOPPED - ASI (ACCELERATION SEVERITY INDEX) < 0,5		BOPLAN TEST CENTRE Muizelstraat 12 8560 Moorsele Belgium 	

IL-HR112-20260428

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

COMPLIANCE

The HP PLUS handrail complies with safety standard EN14122-3 chapter 7 and 8 related to the strength of the rails and posts. Tested and approved by **TUV Nord**.



CERTIFICATE

FOR DETERMINING THE PRODUCT TYPE

07/203/VKBÜZ/8121248350/23/KSP1(00)

According to the certification program 5TH-25-KSP-VA-320 of TÜV NORD Systems GmbH & Co. KG for Plastic Products, this certificate applies to the product:

Handrail HP Plus 2R/2R
Handrail HD Light 1/Mezza

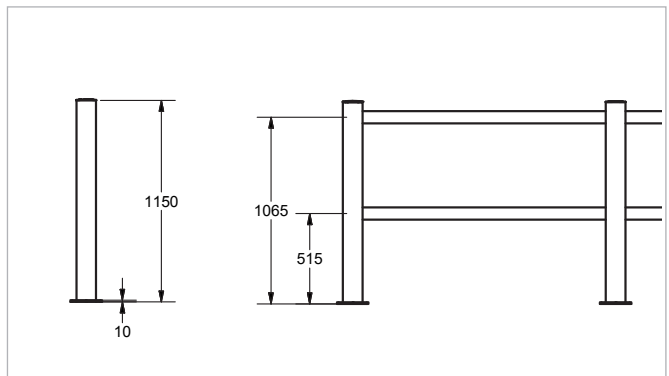
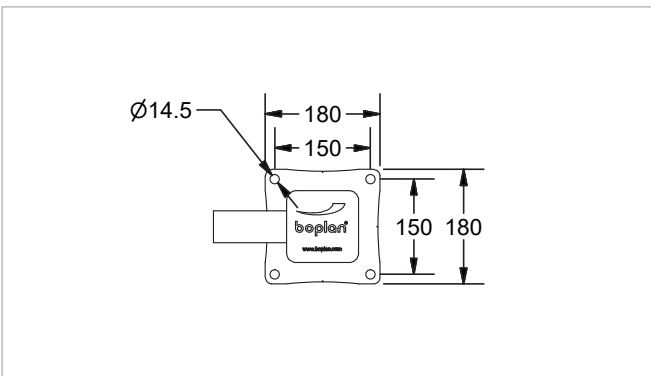
placed on the market under the name or brand
Handrail HP Plus 2R/2R
Handrail HD Light 1/Mezza
 and produced in the manufacturing plant(s)
Boplan BV
 Muizelstraat 12
 8560 Wevelgem (Moorsele), Belgium

This certificate attests that all test criteria for the determination of the product characteristics and for the determination of the product type, described in the technical specification
DIN EN ISO 14122-3, especially Chapter 8.2
 Please note: inspection according to the EU Machinery Directive 2006/42/EC is not part of this contract.
 and summarized in the test report:
 1328KU222285 / 8121548350-T01



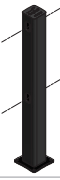

have been met and that the manufacturer is effectively applying a quality management system with respect to the manufacture of mechanical plastic products.
 The manufacturer is responsible for the usability of the products manufactured and marked by him according to the technical specification.
 This certificate was first issued 05.05.2023 and will remain valid until 03.2026 as long as neither the specifications in the mentioned technical specification, the plastic products nor the supplier's supply and manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the certification body.





Hamburg, 05.05.2023
 TÜV NORD Systems GmbH & Co. KG
 Erbk. 2023
 52523 Hamburg
 Germany
 HANNOVER 101-1-20100-10001-0001
 TÜV NORD


 Digitally signed by
 Stiel Andreas
 A. Stiel
 Certification Body for Plastic Products of
 TÜV NORD Systems GmbH



REFERENCE LIST - HP PLUS 2R

POSTS			
	BLACK	MULTI Colour 	
End post - 2R End post - 2R - ZC End post - 2R - SS End post - 2R - CH End post - 2R - CH - ZC End post - 2R - CH - SS	HR1120-0001-EPBL HR1120-0001-EPBLZ HR1120-0001-EPBLS HR1120-0001-EPBLC HR1120-0001-EPBLCZ HR1120-0001-EPBLCSS	HR1120-0001-EPMC HR1120-0001-EPMCZ HR1120-0001-EPMCS - - -	
Mid post - 2R Mid post - 2R - ZC Mid post - 2R - SS Mid post - 2R - CH Mid post - 2R - CH - ZC Mid post - 2R - CH - SS	HR1120-0001-MPBL HR1120-0001-MPBLZ HR1120-0001-MPBLS HR1120-0001-MPBLC HR1120-0001-MPBLCZ HR1120-0001-MPBLCSS	HR1120-0001-MPMC HR1120-0001-MPMCZ HR1120-0001-MPMCS - - -	
T - post - 2R T - post - 2R - ZC T - post - 2R - SS T - post - 2R - CH T - post - 2R - CH - ZC T - post - 2R - CH - SS	HR1120-0001-TPBL HR1120-0001-TPBLZ HR1120-0001-TPBLS HR1120-0001-TPBLC HR1120-0001-TPBLCZ HR1120-0001-TPBLCSS	HR1120-0001-TPMC HR1120-0001-TPMCZ HR1120-0001-TPMCS - - -	

POSTS			
	BLACK	MULTI Colour 	
Blank post - 2R Blank post - 2R - ZC Blank post - 2R - SS Blank post - 2R - CH Blank post - 2R - CH - ZC Blank post - 2R - CH - SS	HP1120-0001-BPBL HP1120-0001-BPBLZ HP1120-0001-BPBLS HP1120-0001-BPBLC HP1120-0001-BPBLCZ HP1120-0001-BPBLCSS	HP1120-0001-BPMC HP1120-0001-BPMCZ HP1120-0001-BPMCS - - -	
Corner post 90° - 2R Corner post 90° - 2R - ZC Corner post 90° - 2R - SS Corner post 90° - 2R - CH Corner post 90° - 2R - CH - ZC Corner post 90° - 2R - CH - SS	HR1120-0001-C90BL HR1120-0001-C90BLZ HR1120-0001-C90BLS HR1120-0001-C90BLC HR1120-0001-C90BLCZ HR1120-0001-C90BLCSS	HR1120-0001-C90MC HR1120-0001-C90MCZ HR1120-0001-C90MCS - - -	
Corner post 135° - 2R Corner post 135° - 2R - ZC Corner post 135° - 2R - SS Corner post 135° - 2R - CH Corner post 135° - 2R - CH - ZC Corner post 135° - 2R - CH - SS	HR1120-0001-C45BL HR1120-0001-C45BLZ HR1120-0001-C45BLS HR1120-0001-C45BLC HR1120-0001-C45BLCZ HR1120-0001-C45BLCSS	HR1120-0001-C45MC HR1120-0001-C45MCZ HR1120-0001-C45MCS - - -	

RAIL SETS (2R)

center - center length	BLACK / PHOTOLUM	BLACK / RED	BLACK / YELLOW	YELLOW / BLACK	YELLOW	YELLOW / PHOTOLUM
500 mm	HR1120-0500-0001BP	HR1120-0500-0001BR	HR1120-0500-0001BY	HR1120-0500-0001YB	HR1120-0500-0001YE	HR1120-0500-0001YP
750 mm	HR1120-0750-0001BP	HR1120-0750-0001BR	HR1120-0750-0001BY	HR1120-0750-0001YB	HR1120-0750-0001YE	HR1120-0750-0001YP
1000 mm	HR1120-1000-0001BP	HR1120-1000-0001BR	HR1120-1000-0001BY	HR1120-1000-0001YB	HR1120-1000-0001YE	HR1120-1000-0001YP
1250 mm	HR1120-1250-0001BP	HR1120-1250-0001BR	HR1120-1250-0001BY	HR1120-1250-0001YB	HR1120-1250-0001YE	HR1120-1250-0001YP
1500 mm	HR1120-1500-0001BP	HR1120-1500-0001BR	HR1120-1500-0001BY	HR1120-1500-0001YB	HR1120-1500-0001YE	HR1120-1500-0001YP
1750 mm	HR1120-1750-0001BP	HR1120-1750-0001BR	HR1120-1750-0001BY	HR1120-1750-0001YB	HR1120-1750-0001YE	HR1120-1750-0001YP
2000 mm	HR1120-2000-0001BP	HR1120-2000-0001BR	HR1120-2000-0001BY	HR1120-2000-0001YB	HR1120-2000-0001YE	HR1120-2000-0001YP
250-2000 mm	HR1121-2000-0001BP	HR1121-2000-0001BR	HR1121-2000-0001BY	HR1121-2000-0001YB	HR1121-2000-0001YE	HR1121-2000-0001YP

CORNER RAIL SETS (2R)

Corner rail 90°/135°: 500mm	-	-	-	-	HR1120-0500-C90YE	-
Corner rail 90°/135°: 750mm	-	-	-	-	HR1120-0750-C90YE	-
Corner rail 90°/135°: 1000mm	-	-	-	-	HR1120-1000-C90YE	-
Corner rail 90°/135°: 1250mm	-	-	-	-	HR1120-1250-C90YE	-
Corner rail 90°/135°: 1500 mm	HR1120-1500-C90BP	HR1120-1500-C90BR	HR1120-1500-C90BY	HR1120-1500-C90YB	HR1120-1500-C90YE	HR1120-1500-C90YP
Corner rail 90°/135°: 250-2000 mm	HR1121-2000-C45BP	HR1121-2000-C45BR	HR1121-2000-C45BY	HR1121-2000-C45YB	HR1121-2000-C45YE	HR1121-2000-C45YP

