



HP GRILL

Handrails

Revision: 5 February 2025 10:03 AM Boplan reference: GH...

PRODUCT SPECIFICATIONS

APPLICATION			
Handrail system designed to protect people against falling products in zor traffic. This separate shielding ensures a clear segregation between peopl goods. Depending on the size of the goods, one can opt for an arrangeme distance between the rails of 11 in. Intended for indoor use.			
MATERIAL			
Posts and rails	Extrilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**		
STANDARD COLORS			
End post	Black RAL 9005		
Mid post Black RAL 9005			
Impact tube Yellow RAL 1003			
Handrails	Yellow RAL 1003		
BASEPLATES			
	Steel		
Material	Steel 37		
Coating	Lacquered		
Color	High gloss black		

^{*}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				







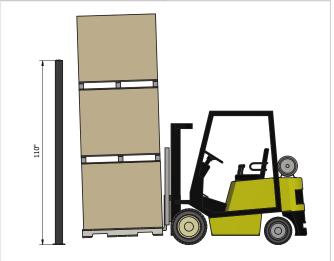


FEATURES AND FUNCTIONALITY - HP GRILL

SIZE	
Height end posts	Maximum 110 in
Height mid post	Maximum 110 in
Profile section handrail	2 x 2 3/4 in (1/5 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)

boplan	T LABEL	FOR SAFETY E	BARRIERS	
BOPLAN HP GRILL				
IMPACT RATING		45°	90°	
E80 E60 E50 E40 E35 E30 E25 E20 E15 E10 E5	- 80 kj - 60 kj - 50 kj - 40 kj - 35 kj - 30 kj - 25 kj - 20 kj - 15 kj - 10 kj - 5,0 kj - 2,5 kj	7,8 kJ	5,5 kJ	
TEST CONDITIONS TEMPERATURE: 20°C / 68°F IMPACT HEIGHT: 500 mm / 19 3/4 Inch IMPACT ANGLE: 90° TEST FLOOR: CONCRETE SLAB C25/30 - 160 mm / 6 Inch MANUFACTURER ANCHOR PULL OUT: 7,9 kM			Muizelstraat 12 8560 Moorsele Belgium	

REQUIREMENTS				
Concrete quality	minimum C25/30			
Concrete floor plate thickness	minimum 6 in			
Concrete slab dimension around posts (in)	not advised			
Operational temperature	14°F up to 104°F			
Water and humidity	Steel (standard): dry indoor use only.			



HOLDING POWER						
	Force*	Deflection**				
110 in - 9R	F9 = 2600 N	32 in	□ 			
100 in - 8R	F8 = 2900 N	30 in	0←F8			
90 in - 7R	F7 = 3260 N	28 in	○ ← F7			
78 in - 6R	F6 = 3760 N	25 2/3 in	0←F6			
67 in - 5R	F5 = 4460 N	22 2/3 in	○←—F4			
56 in - 4R	F4 = 5520 N	19 1/3 in	\			
45 in - 3R	F3 = 7220 N	15 1/3 in	\0 ← F2			
34 in - 2R	F2 = 10580 N	11 2/5 in	F:			
23 2/3 in - 1R	F1 = 18400 N	6 1/3 in	I			

^{*} Force acting on the center of the hand rails (between posts)
** Deflection (D) measuread on top side.





REFERENCE LIST - HP GRILL

	End post	Mid post	Corner post 90°	Corner post 135°	T-end post (incl. caps)
110 in - 9R	GH275-2800-EPBL	GH275-2800-MPBL	GH275-2800-C90BL	GH275-2800-C45BL	GH275-2800-TPBL
90 in - 7R	GH275-2250-EPBL	GH275-2250-MPBL	GH275-2250-C90BL	GH275-2250-C45BL	GH275-2250-TPBL
	9R 8R 7R 6R 5R 4R 3R 2R	9R 8R 7R 6R 5R 4R 3R 2R	99. 88. 78. 68. 58. 48. 48.	135.0° 0 22.5° 0 22.5°	98- 88- 78- 69- 48- 38- 28-

RAIL	RAIL SETS								
	CC 24 in - YE Std rail SET	CC 36 in - YE Std rail SET	CC 48 in - YE Std rail SET	CC 60 in - YE Std rail SET	CC 60 in - YE corner rail SET 90°/135°	CC 72 in - YE Std rail SET	CC 78 in - YE Std rail SET		
9R	GHR900-0610-0001YE	GHR900-0915-0001YE	GHR900-1220-0001YE	GHR900-1525-0001YE	GHR900-1525-C90YE	GHR900-1828-0001YE	GHR900-1980-0001YE		
7R	GHR700-0610-0001YE	GHR700-0915-0001YE	GHR700-1220-0001YE	GHR700-1525-0001YE	GHR700-1525-C90YE	GHR700-1828-0001YE	GHR700-1980-0001YE		





TECHNICAL DRAWINGS - HP GRILL

