

GP250R

BOLLARDS AND HEIGHT RESTRICTORS

Revision: 20 March 2025 10:23 AM
Boplan reference: GP250R...



PRODUCT SPECIFICATIONS

APPLICATION

Protection	Utilizing Boplan's innovative tube-in-tube system, the GP250R is engineered as a robust height restriction solution with an impressive impact resistance up to 10 kJ. It serves as a protection for gates, canopies, bridges, loading docks, and industrial doorways against collisions with high vehicles like elevated work platforms, trucks, and buses. Enhanced by a solid base defender, it effectively absorbs collision forces while ensuring safe distances from pallets. Ensuring protection indoors and outdoors in industrial environments.
Impact performance at 90°	POST: 10 200 Joule (Eq. to 3,8 ton - 8,3 km/h)

MATERIAL

Posts and rails	Extrilene® - UV resistant - Fire class E* - Non conductive - Impervious to most chemicals**
Caps	Sustainable elastomer

STANDARD COLOUR

Posts	Yellow RAL 1003
Top rail	Yellow RAL 1003

OPTIONAL

Sign Mark 200	Sign board used to display important messages. It is designed for a perfect fit around the Top Rail and signs can easily be replaced with just a click.
---------------	---

BASEPLATE

	Zinc Coated Steel
Material	Steel 37
Coating	Electroplated + Laquered
Colour	Mat 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	Concrete screw		Ø17mm x 130mm		Not available
	Wedge anchor		Ø18mm (M12) x 130mm		Not available
ALTERNATIVE	Anchor rod (Chemical)		M16 x 120mm + chemical resin		Not available

The anchors specified in this document are metric. Imperial anchors are available on demand.



Distributed in
NZ & AU by



VANGUARD™
Standing between you and harm

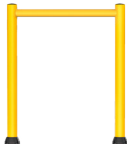
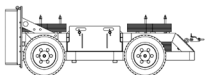


vanguardgroup.co.nz • 0800 500 147 • hello@vanguardgroup.co.nz

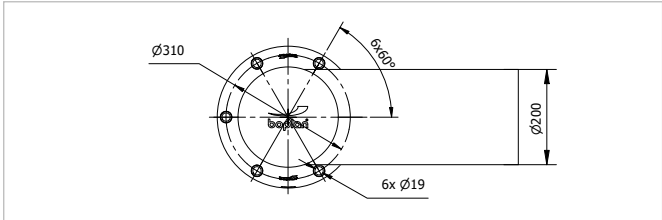
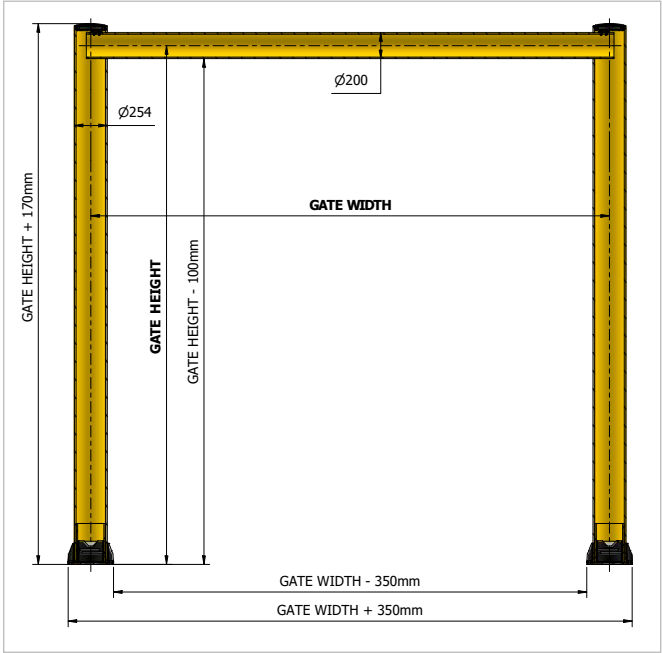


vanguardaustalia.com.au • 1800 999 243 • hello@vgl.net.au

SIZE	
Inner Height	min. 1900 - max. 5900 mm
Inner Width	min. 1546 - max. 5746 mm
Vertical frame post	Outer tube: Ø254 mm
Horizontal top rail	Ø200 mm
Baseplate	Ø350 mm (15 mm thick)
Base Defender	Top: Ø250 mm Base: Ø354 mm Height: 150 mm

 IMPACT LABEL SAFETY GATES			
GOAL POST 250R		90°	
BOPLAN IMPACT CATEGORY	RATING		
X	50 kj		
	40 kj		
	30 kj		
T	25 kj		
	20 kj		
F	17kj		
	15 kj		
R	12 kj		
	10 kj		
B	7.5kj		
	5.0 kj		
	2.5 kj		
L	0.5 kj		
		*Dynamic impact result: 10 200 Joule	
IMPACT TEST RESULTS AT 90°			
Product: GP250R1-4000-S200YEZ - 4000 mm / 13 ft			
Deflection Post (α)			
At maximum impact energy			
  α = 8.6°			
TEST CONDITIONS FOLLOWING PAS13: 2017		BOPLAN TEST CENTRE	
TEMPERATURE: 20°C / 68°F		Muizelstraat 12	
IMPACT ON MIDDLE OF POST		8560 Moorsele	
IMPACT HEIGHT: 300 mm / 11 Inch		Belgium	
TEST FLOOR: CONCRETE SLAB C25/30 - 150 mm / 6 Inch			
TEST VEHICLE:			
TYPE: BOPLAN IMPACT TEST VEHICLE			
WEIGHT: 3775 Kg / 8322.45 lbs			
SIZE (L x W x h): 3100 x 1100 x 1150 mm / 122 x 43.3 x 45.3 Inch			
CONTACT AREA, STEEL BUMPER WIDTH: 1000 mm / 39.4 Inch			
			
* IMPACT VALUE ACCOUNTING FOR BARRIER DEFORMATION DURING IMPACT		IL-GP250R-20241106	

REQUIREMENTS	
Concrete quality	minimum C25/30
Concrete floor plate thickness (mm)	minimum 150 mm
Concrete slab dimension around posts (mm)	1000 (h) x 1000 (w) x 700 (d)
Operational temperature	-10°C up to +40°C
Water and humidity	Zinc coated: outdoor use in most environments.
When higher than 4 meters	(wall) connection needed



Distributed in
NZ & AU by



VANGUARD™
Standing between you and harm



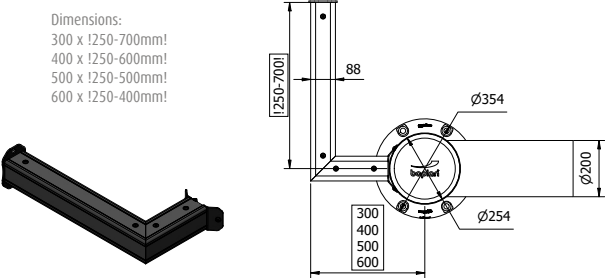
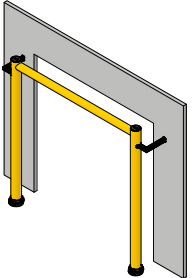
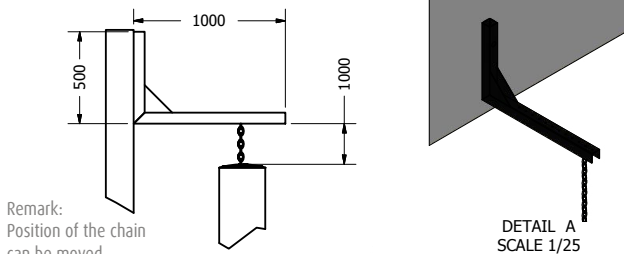
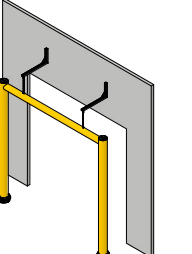
vanguardgroup.co.nz • 0800 500 147 • hello@vanguardgroup.co.nz



vanguardaustralia.com.au • 1800 999 243 • hello@vgl.net.au

POSTS	
GP250R Posts - 2000-3000mm Yellow ZC	GP250R1-3000-S200YEZ
GP250R Posts - 3100-4000mm Yellow ZC	GP250R1-4000-S200YEZ
GP250R Posts - 4100-6000 Yellow ZC (Wall connection mandatory but NOT included)	GP250R1-6000-S88YEZ

TOP RAIL	
GP250R Top rail - 1800-2500mm Yellow	GP250R1-2500-TR00YE
GP250R Top rail - 2600-4000mm Yellow	GP250R1-4000-TR00YE
GP250R Top rail - L 4100-6000mm Yellow Reinforced	GP250R1-6000-TRRBYE

SUPPORT			
Wall connection plastic system Black (Ref. = 1 piece)	GP250R-0300-0700-WBL GP250R-0400-0600-WBL GP250R-0500-0500-WBL GP250R-0600-0400-WBL	Dimensions: 300 x !250-700mm! 400 x !250-600mm! 500 x !250-500mm! 600 x !250-400mm! 	
Wall connection - for top rail metal with chain (Ref. = 1 piece)	GP0099-0002-WCP0BL	 Remark: Position of the chain can be moved.	



Distributed in
NZ & AU by



VANGUARD™
Standing between you and harm



vanguardgroup.co.nz • 0800 500 147 • hello@vanguardgroup.co.nz



vanguardaustalia.com.au • 1800 999 243 • hello@vgl.net.au