

Polybar P-Gate – Technical Product Datasheet

Designed to divide vehicle & pedestrian traffic zones. An added piece of visual and physical protection at a critical workplace interface. The gate can be easily fitted to Polybar P-Bollards.

Product Description

The P-Gate is designed to divide vehicle & pedestrian traffic zones. An added piece of visual and physical protection at a critical workplace interface. The gate can be easily fitted to Polybar P-FLEX or solid bollards and rails.

Product Dimensions

P-Bollard Dimensions		P-Gate Dimensions			Drilling		
Diameter	Height	Rod ø	Length	Height	Thickness	Hole ø	Depth
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
120	1000	30	1100	400	20	48	150

Features & Benefits



High Resistance to Impact



Minimum Maintenance



Hygenic & Easy to Clean



100% Recyclable



Suitable for Food Environments



Quick Repair at Minimum Cost

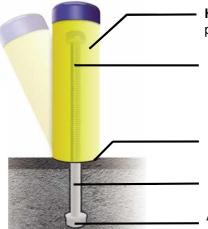


Hidden Fixing / Zero Exposed Steel



Protected against UV Rays

Material Properties (demonstrated on P-Bollard)



High Performance Synthetic Polymer – Offers superior protection that requires minimum maintenance.

Threaded Rod- Robust steel rod anchoring system with superior 'pull-out' performance, designed for fast installation and to absorb impacts while minimising concrete damage.

Neoprene Seal – Designed to prevent liquid ingress and zero exposed steel.

PVC Sleeve – Eliminates grout contacting the threaded rod to enable easy rod replacement

Anchor nut - guarantees durability of fixing, offering maximum resistance and easy rod replacement.

Material Properties

Test	Results
Density (g/cm3) - ISO 1183	0.95
Yield Stress (N/mm2) - DIN EN ISO 527	28
Elongation Resistance (%) - DIN EN ISO 527	8
Elongation at Break (%)	300
Tensile E Modulus (MPa) - DIN EN ISO 527	850
Impact Strength (kJ/m2) - DIN EN ISO 179	Without break
Notched Impact Strength (kJ/m2) - DIN EN ISO 179	50
Ball Indentation Hardness (N/mm2) - DIN EN ISO 2039-1	45
Shore Hardness (N/mm2) - D ISO 868	66
Average Thermal Coefficient of Elongation (K-1) - DIN 53752	1'8 . 10-4
Thermal Conductivity (W/m.K) - DIN 52612	0.38
Dielectric Strength (kV/mm) - VDE 0303-21	44
Surface Resistance (Ohm) - DIN IEC 167	1014
Temperature Range (°C)	-100 to +80
Chemical Resistance (Acids, Alkalis and Solvents)	High
Physiologically Acceptable	Yes
Welding	Yes
Hot Forming	Possible

Testing

Dynamic Impact Test	Tested Impact Energy @ 90° (Joules)	
P-Bollard 120mm (P-Gate supporting bollard)	17,405	

17,405 Joules is the equivalent of



10 Km/h (6 mph) All dynamic testing has been certified by TUV nord. Please contact Polybar for further information.



Colours

Yellow	RAL 1021
Black	RAL 9004

Other colours are available subject to minimum order size. Please contact Polybar for further information.



Shipping / Freight

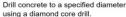
Fully timber crated packs are available on projects requiring delivery by sea freight shipping. Offloading & installation (unless agreed otherwise) is the responsibility of the customer.

Polybar supplies internationally. Please contact Polybar for lead times to specific locations.

Installation

Although not the exact product, installation principles are as follows:







Vacuum debris and dust to ensure a clean surface.



Mix & pour grout resin into hole.



Insert protection system, leave to set and tighten top bolt.



Fix cap.



Assembly complete

Further Information:

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