

Polybar P-Double Barrier – Technical Product Datasheet

Designed to protect equipment & buildings safely by absorbing the force impact caused by vehicles. Its revolutionary polymer technology coupled with its unique single anchoring system results in a high-performance impact protection system relied upon by global companies.

Product Description

The P-Double Barrier is a superior high-performance impact protection system designed to provide safe protection for a variety of applications including equipment, buildings and racking.

Product Dimensions

Dimensions (mm)						Drilling (mm)	
			Height	Rod ø	Hole ø	Depth	
Diameter (mm)	Length (mm)	No. Bases	(mm)	(mm)	(mm)	(mm)	
70	500	2	230	20	48	150	
70	1000	2	230	20	48	150	
70	1500	3	230	20	48	150	
70	2000	3	230	20	48	150	
100	500	2	300	20	48	150	
100	1000	2	300	20	48	150	
100	1500	3	300	20	48	150	
100	2000	3	300	20	48	150	
120	500	2	340	20	48	150	
120	1000	2	340	20	48	150	
120	1500	3	340	20	48	150	
120	2000	3	340	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

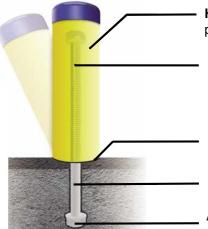


Hidden Fixing / Zero Exposed Steel



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-Double Barrier 120mm*	36,425		
P-Double Barrier 100mm*	19,850		
P-Double Barrier 70mm*	7,470		

^{*}Tested on the P-Barrier only (not the P-Double Barrier)

36,425 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

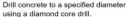
Fully timber crated packs are available on projects requiring delivery by sea freight shipping. Offloading & installation (unless agreed otherwise) is the responsibility of the customer.

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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