



Polybar P-Bollard – 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-Bollard 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			Drilling	
Diameter (mm)	Height (mm)	Rod ø (mm)	Hole ø (mm)	Depth (mm)
70	266	20	48	150
100	430	30	68	150
100	530	30	68	150
100	1000	30	68	150
120	430	30	68	150
120	530	30	68	150
120	800	30	68	150
120	1000	30	68	150
180	430	30	68	150
180	800	30	68	150
180	1000	30	68	150

Features & Benefits



High Resistance to Impact



Hygienic & Easy to Clean



Suitable for Food Environments



Hidden Fixing / Zero Exposed Steel



Minimum Maintenance



100% Recyclable

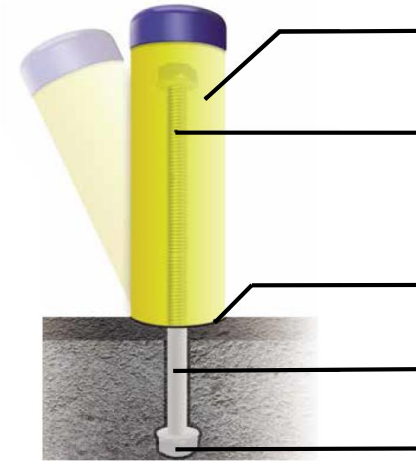


Quick Repair at Minimum Cost



Protected against UV Rays

Material Properties



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	17,405

17,405 Joules is the equivalent of

 X 10 Km/h (6 mph)
 4.5 tonnes

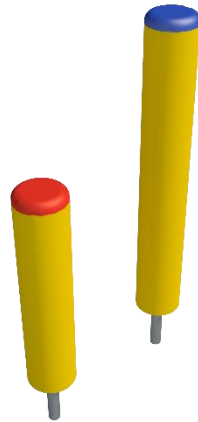
All dynamic testing has been certified by TUV nord. Please contact Polybar for further information.



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:



Drill concrete to a specified diameter using a diamond core drill.



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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