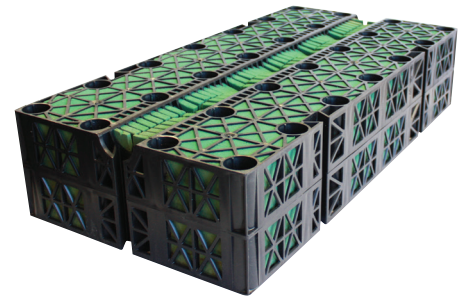


Product code: PVPP85PF or PVPP150PF

Permafoam is an open-celled, phenolic foam that is highly absorbent and water retentive. Incorporated into Permavoid high-strength units, Permafoam has the capacity to store 31 litres of water and is used mainly for check dams. The Permavoid structure prevents the foam from damage due to imposed backfill or traffic loads.



Applications

Permafoam units are used for stormwater collection and provide velocity control to drainage flows within sub-bases laid over sloping surfaces. Due to the very large surface area compared to traditional check-gate flow control, Permafoam assures against the risk of the control clogging associated with traditional check-gate flow controls.

Key Benefits

- Permafoam units can be used to form check dams and gates within pervious pavements, sports pitches and podium applications.

Performance

The structural load bearing capacity of the Permavoid units have been tested in accordance with the following European Standard: BS 7533-13:2009. The system's structural design life expectancy, based upon creep test data (tested in accordance with CIRIA guidelines) is as follows; For lightly loaded areas such as car parks a design life of 50 years is achievable. For areas with prolonged HGV loading a typical design life may only be 25 years, depending on the design of the pavement surfacing and structural layers over the tank.

Technical Support

Detailed guidance and assistance is available. For further information, please contact our Technical Team on **+44 (0) 1509 615100** or email civils@polypipe.com or visit www.polypipe.com/civils-technical-hub

ELEMENT	VALUE
PHYSICAL PROPERTIES	
Weight per unit	2.5kg or 3.65kg
Length	708mm
Width	354mm
Depth	85mm or 150mm
SHORT TERM COMPRESSIVE STRENGTH	
Vertical	715kN/m ²
Lateral	156kN/m ²
SHORT TERM DEFLECTION	
Vertical	1mm per 126kN/m ²
Lateral	1mm per 15kN/m ²
TENSILE STRENGTH	
Of a single joint	42.4kN/m ²
Of a single joint at (1% secant modulus)	18.8kN/m ²
Bending resistance of unit	0.71kN/m
Bending resistance of single joint	0.16kN/m
OTHER PROPERTIES	
Volumetric void ratio	83%
Water storage capacity (foam)	up to 31 Litres
Water permeability (in plane flow)	0.0452 Litres/second/lin.m
Ancillary	Permavoid Permatie Permavoid Shear Connector
Material	Polypropylene (CoPo), Polyurethane

Permafoam can be utilised in these SuDS techniques

TECHNIQUES													
Blue-Green roofs	Podium Decks	Trees	Sports Pitches	Cycle Paths	Permeable Paving (sub base & podium)	Bioretention & Rain Gardens	Attenuation Storage Tanks	Infiltration	Swales	Filter Drains	Detention Basins	Ponds & Wetlands	Filter Strips
	✓		✓		✓	✓	✓	✓	✓	✓			

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