

# PERMAVOID 85

Permavoid 85 is a modular interlocking polypropene geocellular unit. It is designed as a high strength, lightweight and shallow subbase replacement system. The system is characterized by its exceptionally high compressive strength and bending resistance. The units are connected with PermaTies to create a rigid horizontal structural

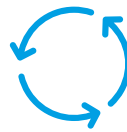
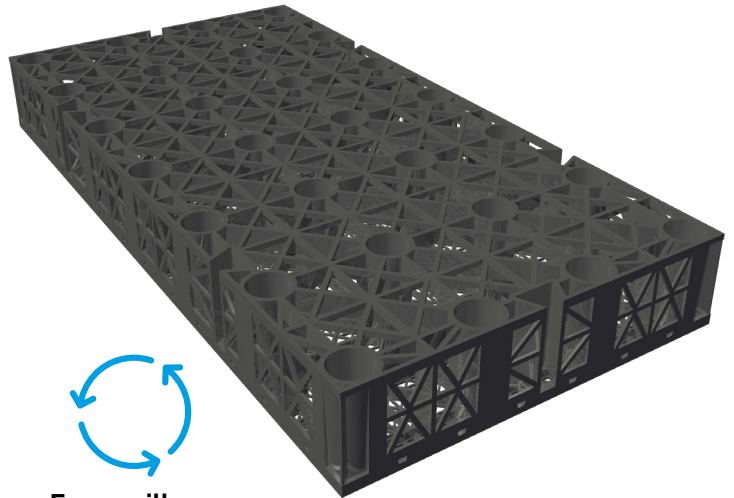
'raft', ideal for multifunctional subbase applications. In combination with the Permavoid Capillary Cylinders the system can be used in water sensitive urban design, enabling stormwater attenuation, conveyance and natural capillary plant irrigation without the use of energy, pumps or in-building water storage tanks.

## Applications

- Parkings
- Bicycle paths
- Blue-Green roofs
- Podium Decks
- Sports
- Equestrian
- Urban Trees
- Hardscaped SUDS and lightweight rigid subbase replacement

## GENERAL

<b>Brand</b>	Permavoid
<b>Product name</b>	Permavoid 85
<b>Item nr.</b>	3550004
<b>Color</b>	Black
<b>Material</b>	Polypropene (CoPo)
<b>Material description</b>	Frost and resistant, hydrofoob, inert, acid and hydrocarbon resistant, impervious to bacterial and fungal growth
<b>Recycled/Virgin</b>	Recycled material
<b>Lifespan</b>	> 50 years



**For capillary irrigation PDS-2B will be added.**

# PERMAVOID 85

## SIZE

<b>Size</b>	708 x 354 x 85 mm (l x b x h), approx. 0,25 m <sup>2</sup> , +/- 1%
<b>Weight</b>	approx. 2,25 kg
<b>Color</b>	Black
<b>Coefficient of Linear Thermal Expansion</b>	0,0004 - 0,0008 m/m K
<b>Volumetric void ratio</b>	> 92%
<b>Perforated surface ratio</b>	> 52%
<b>Compressive strength (safe design strength)</b>	715 kN/m <sup>2</sup>
<b>Short-term vertical deflection</b>	126 kN/m <sup>2</sup> /mm
<b>Necessary ancillaries (included)</b>	Permaties: each unit is tied to the next with 6 conical PermaTies to create a stable raft. Removable, reusable.
<b>Optional Ancillaries</b>	Capillary Irrigation Cylinders (3520002 and 3520003 form one complete cylinder)

## PACKAGING

<b>Packaging</b>	Single units on pallet, foil wrapped
<b>Pallet size</b>	1.200 x 1.100 x 2.300 mm (l x w x h)
<b>Pallet capacity</b>	117 pieces, 29,25 m <sup>2</sup>
<b>Pallet total weight</b>	262 kg
<b>Storage instruction</b>	Prevent exposure to direct sunlight during long term storage
<b>HS Code</b>	39269097

### Notes

Permavoid Ltd. will not be held liable if our products are used in a manner inconsistent with our requirements, standards or the purposes indicated in the standards. Standards can be obtained at [www.permavoid.com](http://www.permavoid.com). This document is not contractual. With our constant concern for improvements, the information this document contains and the products presented may be modified without notice. The latest version of this document can be obtained at [www.permavoid.com](http://www.permavoid.com). Please get in touch with us if you require any further documentation or information.

Data Sheet: PDS-2A  
Last revised: January 2021

### Permavoid Head Office

Kattenburgerstraat 5

1018 JA | Amsterdam | The Netherlands  
[www.permavoid.com](http://www.permavoid.com) | [info@permavoid.co.uk](mailto:info@permavoid.co.uk)

Permavoid Ltd. is part of the Polypipe Group.