

DATA SHEET

SKY GARDEN 25MM DRAINAGE BOARD DDRD25

Version 1.0

SKY GARDEN 25MM DRAINAGE BOARD

A dimpled and perforated HDPE sheet (Deep-drawn recycled HDPE). A lightweight rigid drainage board with a water reservoir function, with a channeling system for the excess water produced during precipitation events. For use on extensive green roofs with a single or multi-layer construction and under path surfaces with a minimum 60 mm substrate. Also suitable for inverted roofs.



SYSTEM CONSIDERATIONS

- Suitable for use on Extensive and Intensive Green roof, Podium and Inverted Roof Systems
- Functional in Sedum, Wildflower and Biodiverse Systems
- Scientifically proven to provide drainage and water storage.
- Resistant to root penetration
- Highly resistant to acids and alkalis

TECHNICAL PROPERTIES

Property	Test Standard	Units	Product Value
Perforated Cusped Drainage Sheet Data			
Polymer	High Density Polyethylene (recycled)		
Cusped Height		mm	25
Max Compressive Strength (Unfilled)	DIN EN ISO 25619-2	kN/m2	200
Max Compressive Strength (Unfilled with 10% Compression)	DIN EN ISO 25619-2	kg/m2	90
Max Compressive Strength (Filled with 10% Compression and 35mm Overfilling)		kN/m2	1755
Filling Volume (Small naps facing up (Surface Side))		l	14.5
Filling Volume (Large naps facing up (Greening Side))		l	7.5
Water Reservoir Unfilled (Small naps facing up (Surface Side))		l	3.6
Water Reservoir Unfilled (Large naps facing up (Greening Side))		l	5
Quantity/Delivered Unit		m	1.0 x 2.0
Quantity Per Pallet (2.05m x 1.05m Pallet)		m2	700
Approximate Delivered Unit Weight		kg	2.7



Water Discharge Capacity (Measured at: $\sigma = 20$ kPa, Soft/Hard, MD with a Filter Fleece on Upper side)	Test Standard	Units	Product Value
$i = 0.01$ (=1% roof pitch)	DIN EN ISO 12958	$l/(m*s)$	0.99
$i = 0.02$ (=2% roof pitch)	DIN EN ISO 12958	$l/(m*s)$	1.41
$i = 0.05$ (=5% roof pitch)	DIN EN ISO 12958	$l/(m*s)$	2.2
$i = 1$ (Vertical)	DIN EN ISO 12958	$l/(m*s)$	10.03



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