

Technical Data Sheet

BIOSOLAR FK25 DRAINAGE AND STORAGE BOARD Roof Finishes

Biosolar FK25 Drainage and Storage Board is a flow-delay drainage and retention board manufactured from recycled high-impact polystyrene (HIPS) designed for use in Axter's biosolar system.

The Biosolar FK25 Drainage and Storage Board provides combined water-retention, drainage, aeration and protection functions. The rigid 25mm profiled board has a stepped barrier design and recessed evaporation vents which enable the controlled retention of water and delayed rainwater run-off. Efficient drainage of surplus water is ensured by the integrated underside water-channel system while root-zone aeration is maintained.

Biosolar FK25 Drainage and Storage Boards are supplied with pre-punched holes to allow photovoltaic (PV) mounting frames to pass through. This enables the installation of the Axter biosolar system while maintaining continuity of drainage and retention across the roof build-up. Biosolar FK25 Drainage and Storage Boards have a high water storage capacity (approx. 11.8 l/m²) with low run-off coefficient ($C \approx 0.29$).



Technical specifications

Characteristic	Unit	Value	Standard
Mechanical properties - Geocomposite			
Compressive strength	kPa	322	EN ISO 25619-2
Hydraulic properties - Geocomposite			
Water flow capacity (in plane, at 2% fall)	l/(ms)	0.57	EN ISO 12958
Water storage capacity	l/m ²	11.8	
Run off coefficient (C)	l/(m ² .s)	0.29	FLL
Physical properties			
Thickness	mm	25	
Standard colour		Black	
Surface weight	kg/m ²	1.36	
Polymer - (board)		HIPS	
Dimensions			
Sheet strength	mm	2020	
Sheet width	mm	1100	
Sheet thickness	mm	25	

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