

SwiftDrain 805 | Heavy-Duty 3D Composite Drainage

Product Description

SwiftDrain 805 is a high-performance, three-layer drainage composite engineered for superior vertical drainage. It consists of a dimpled drainage core and two layers of high-strength polypropylene (PP) geotextile. One geotextile layer (gray) is heat-bonded to the dimples, while the other geotextile layer (white) is fully adhered to the backside of the drainage core, providing a smooth surface for the application of liquid-applied waterproofing membranes.

The drainage core is constructed from specialized high-density polyethylene (HDPE), ensuring exceptional impact and tear resistance while remaining unaffected by environmental stress cracking. The fully bonded, non-clogging geotextile prevents intrusion into the drainage channels, maintaining optimal water flow.

Applications

- Foundation walls
- Retaining walls
- Plaza decks
- Lagging walls
- Trench drains
- Planters

Benefits

- Effective substrate for coating application
- High drainage flow capacity
- High compression strength
- Relieves hydrostatic pressure
- Reduces bulk of conventional aggregate drainage systems
- Great chemical resistance

Blindside Waterproofing

SwiftDrain 805 is specifically designed for blindside waterproofing applications where a liquid-applied membrane is used. The white geotextile backing is fully adhered to the drainage core, facilitating seamless application of waterproofing membranes. Featuring a unique self-adhering edge, SwiftDrain 805 ensures continuous water discharge and effectively relieves hydrostatic pressure buildup.

The non-woven geotextile allows water to pass freely into the drainage core while preventing soil particles from clogging the system. SwiftDrain 805 efficiently directs subsurface water into the drainage core, where gravity moves it into the foundation's drainage system. Additionally, SwiftDrain 805 is rot-proof, ensuring long-term durability in demanding environments.

Technical Data

Attribute	Test	Results
Dimple Height	ASTM D5199	Approx. 2/5" (9mm)
Compressive Strength	ASTM D6364	8500 psf (406 kN/m ²)
Drainage Core Maximum Tearing Strength	ASTM D5884	MD180 N CD100 N
Geotextile Grab Tensile Strength	ASTM D4632	120 lbs (534 N)
Geotextile Elongation	ASTM D4632	60%
Geotextile Trapezoidal Tear	ASTM D4533	35 lbs (156 N)
Geotextile Puncture Strength	ASTM D4833	25 lbs (110 N)
Geotextile Apparent Opening Size (AOS)	ASTM D4751	50 sieve size (0.30 mm)
Geotextile Water Flow Rate	ASTM D4491	95 gal/min/ft ² (3895 L/min/m ²)
Permittivity	ASTM D4991	0.8 sec
Geotextile Weight (Typical)	ASTM D5261	3.0 oz/yd ² (104 g/m ²)
Geocomposite Water Flow Rate @ Hydr. Grad. 1.0	ASTM D4716	16.6 gal/min/ft (206 L/min/m)
Geocomposite Water Flow Rate @ Hydr. Grad. 0.1	ASTM D4716	4.77 gal/min/ft (59 L/min/m)
Toxicity	Non-toxic, non-polluting	
Roll Size / Weight	6'-6" x 41' (2 m x 12.5 m) 51 lbs (23 kg)	
Colour	Silver	

* Note: This data is based on laboratory tests, application conditions and methods may affect these values

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