

SwiftDrain 815 | Heavy-Duty Composite Drainage Mat

Product Description

SwiftDrain 815 is a two-layer composite drainage and protection board for heavy duty applications. Designed with two integrated layers, it features a robust dimpled core and a non-woven, needle-punched polypropylene (PP) geotextile that delivers superior filtration capabilities. The drainage core, formed from a tough co-polymer polypropylene, offers excellent resistance to impact, tearing, and environmental stress cracking. The geotextile layer is securely bonded to the core, ensuring it won't intrude into flow channels under load.

SwiftDrain 815 is a versatile drainage solution engineered for a wide range of demanding construction environments. Its ability to manage water flow while protecting adjacent materials makes it ideal for both horizontal and vertical installations in commercial, industrial, and infrastructure projects.

Applications

- Retaining walls
- Below-grade horizontal applications
- Lagging walls and soldier pile systems
- Caisson walls and deep foundation systems
- Plaza decks and podium slabs
- Tunnels and below-grade utility structures

Benefits

- High drainage capacity
- Heavy-duty performance
- Dimpled drainage core and fully bonded geotextile filter fabric
- Clog-resistant system
- Three-dimensional composite design
- Chemically and biologically resistant
- Pressure-resistant core
- Multi-purpose use

Packaging

SwiftDrain 815 is available in 6' x 50' (1.83 m x 15.25 m) rolls and each roll weighs 63 lbs (28 kg).

Storage

Do not store in direct sunlight. It is recommended to store rolls vertically. This helps maintain their shape and prevents damage during storage.

Technical Data

Attribute	Test	Results
Dimple Height	ASTM D5199	Approx. 2/5" (10 mm)
Compressive Strength	ASTM D6364	15100 psf (723 kN/m ²)
Drainage Core Maximum Tearing Strength	ASTM D5884	MD 550 N CD 800 N
Drainage Core Stress Cracking Resistance	SAGEOS GD 001-2012	504 hours @ 156 kPa
Drainage Core Impact Resistance	ASTM D4226	2.9 J mean failure energy at 5°C
Geotextile Grab Tensile Strength	ASTM D4632	90 lbs (401 N)
Geotextile Elongation	ASTM D4632	50%
Geotextile Trapezoidal Tear	ASTM D4533	40 lbs (178 N)
Geotextile CBR Puncture Strength	ASTM D6241	265 lbs (1178 N)
Geotextile Apparent Opening Size (AOS)	ASTM D4751	70 sieve size (0.212 mm)
Geotextile Water Flow Rate	ASTM D4491	135 gal/min/ft ² (5500 L/min/m ²)
Permittivity	ASTM D4991	1.70 sec
Geotextile Weight (Typical)	ASTM D5261	4.0 oz/yd ² (135 g/m ²)
Geotextile UV Resistance	ASTM D4355	70% @ 500 h
Geocomposite Water Flow Rate @ Hydr. Grad. 1.0	ASTM D4716	18 gal/min/ft (223 L/min/m)
Geocomposite Water Flow Rate @ Hydr. Grad. 0.1	ASTM D4716	3.2 gal/min/ft (40 L/min/m)
Toxicity	Non-toxic, non-polluting	

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

Waterproofing Performance

Built to manage water movement efficiently, **SwiftDrain 815** creates a continuous channel for drainage and helps relieve hydrostatic pressure. The geotextile allows water to pass freely into the core while effectively blocking fine soil particles to prevent clogging. Engineered to meet AASHTO M288 Class 3 (elongation > 50%), it performs consistently even under challenging conditions.

With a compressive strength of up to 15,000 psf (723 kN/m²), it's an ideal solution where high flow capacity is critical. **SwiftDrain 815** is resistant to decay and provides long-term reliability in subsurface systems.

Application Guide

For detailed information about SwiftDrain applications, please contact an Elastochem technical representative for specific application details. It's important to note that the techniques involved may require modification to suit jobsite conditions. This ensures optimal performance and compliance with best practices.

Disclaimer

The information provided, particularly regarding the application and end use of Elastochem products, is given in good faith based on the company's current knowledge and experience when the products are properly stored, handled, and applied under normal conditions in accordance with Elastochem's recommendations.

Due to the variability in materials, substrates, and actual site conditions, no warranty regarding merchantability or fitness for a particular purpose, nor any liability arising from any legal relationship, can be inferred from this information, recommendations, or any other advice provided.

Users are not relieved of the responsibility to conduct their own testing of the products for the intended application and purpose. Proprietary rights of third parties must be respected. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent version of the product data sheet for the specific product, which can be obtained upon request or downloaded from our website at - www.elastochem.com



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