TREMDrain Series Drainage Mats

Multi-Composite Drainage and Protection Boards

Product Description

The **Tremco TREMDrain Series** offers our partners a complete line of drainage mats to enhance membrane performance across a wide range of applications. TREMDrain products combine engineered drainage cores with various filter fabrics and protective films. The fabric retains soil particles while allowing water to freely enter the drainage core. The drainage core acts as a protection course to the membrane and provides a high capacity drainage channel that efficiently transports collected water to designated exits. The polymeric film prevents membrane displacement under load, ensuring maximum protection.

Products for Vertical Applications

TREMDrain is a two-component drainage mat consisting of a polymeric drainage core and nonwoven, needle-punched, polypropylene fabric. Recommended for applications requiring moderate compression and flow capacity.

TREMDrain 1000 is a two-component drainage mat consisting of a polymeric drainage core and nonwoven needle-punched filter fabric. Recommended for applications requiring higher compression and flow capacity. **TREMDrain 1000PF** version includes a polymeric film attached to the back of the drainage core. (May be used horizontally for some applications without high compressive strength requirements.)

Products for Horizontal Applications

TREMDrain S is a three-component drainage mat consisting of a polymeric drainage core with a nonwoven needle-punched filter fabric and polymeric film. Recommended for horizontal applications requiring the highest compression with moderate flow capacity.

TREMDrain 2000 NW is a three-component drainage mat consisting of a polymeric drainage core with a high strength nonwoven needle-punched filter fabric and polymeric film. Recommended for horizontal applications requiring higher compression and flow capacity.

TREMDrain 3000 NW is a three-component drainage mat consisting of a polymeric drainage core with a nonwoven needle-punched filter fabric and polymeric film. Recommended for horizontal applications requiring the highest compression with moderate flow capacity.

TREMDrain 6000 is a two-component drainage mat consisting of a polymeric drainage core with a nonwoven, needle-punched filter fabric. Recommended for vertical and selected horizontal applications requiring high compressive strength and where high flow capacity is necessary. TREMDrain 6000 PF version includes a polymeric film attached to the back of the drainage core.

Combination Drain Products

TREMDrain Total Drain has a unique polymeric core designed specifically to transition water collected from any TREMDrain drainage product into a high-flow collection system. The graduated, molded core has a nonwoven needle-punched filter fabric bonded to one side. By design, TREMDrain Total Drain is equipped to handle the water volume generated by TREMDrain sheet drains more effectively than a perforated pipe collection system and can be used alone or in combination with any TREMDrain drainage product.

TREMDrain GS has a polystyrene core with fabric attached to both sides. It is designed to be used in applications such as vegetative roof systems or greenscapes where some water retention is desired.

Basic Uses

The TREMDrain Series of mats are used with TREMproof® and Paraseal® waterproofing membranes, serving both as a protection course and replacement for traditional pipe and stone drainage systems.

Features and Benefits

TREMDrain Series drainage mats are cost effective, sustainable, performance driven drainage solutions for a wide range of applications. Combined with Tremco membranes, they offer designers and contractors a system solution to manage water effectively and enhance the life and performance of the structure. Manufactured with a high percentage of recycled materials, TREMDrain products can also help reduce a project's negative impact on the environment. The lightweight and easy-to-install rolls reduce excavation and the added material and transportation costs associated with pipe and stone drainage systems.

Limitations

- Not for use beneath sand-set vehicular pavers
- When installing TREMDrain GS, the type of plants and/or vegetation, soil type, and other related issues should be reviewed and specified by a regional horticulturist for accurate selection of vegetation for your specific region.

Installation

Refer to TREMDrain Series application instructions for specific application details. The techniques involved may require modification to adjust to job-site conditions. Consult your local Tremco Sales Representative for specific design requirements.

Availability

TREMDrain Series drainage products are immediately available from your local Tremco Sales Representative, Tremco Distributor, or Tremco Warehouse.

Warranty

Tremco warrants its products to be free of defects in materials, but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Tremco products. Tremco's sole obligation shall be, at its option, to replace or refund the purchase of the quantity of Tremco product proven to be defective and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

TREMCO
Commercial Sealants & Waterproofing

TYPICAL PHYSICAL PROPERTIES

Physical Property	ASTM Test Method	TREMDrain	TREMDrain 1000/1000PF	TREMDrain S	TREMDrain 2000 NW	TREMDrain 3000 NW	TREMDrain 6000/6000PF	TREMDrain Total Drain	TREMDrain GS ½" Treated
Typical Applications		Backfilled Wall Blindside Wall	Backfilled Wall Under Slab	Under Slab Split Slab	Split Slab Planters	Split Slab Planters	Backfilled Walls Under Slab	Backfilled Walls Blindside Walls	Planters
Roll Length		50 ft 15.8 m	50 ft 15.8 m	50 ft 15.8 m	50 ft 15.8 m	50 ft 15.8 m	50 ft 15.24 M	50 ft 15.8 m	50 ft 15.8 m
Roll Width		4 ft 1.22 m	4 ft 1.22 m	4 ft 1.22 m	4 ft 1.22 m	4 ft 1.22 m	6 ft 1.8 M	2 ft 0.61 m	4 ft 1.22 m
Roll Weight		28 lb 12.5 kg	38 lb 17.2 kg	46 lb 20.9 kg	54 lb 24.5 kg	50 lb 22.7 kg	59 lb 26.8 kg	27 lb 12.2 kg	44 lb 20/kg
Recycled Content		>70%	>75% / >70%	>75%	>60%	>65%	>50% / >50%	>75%	>60%
GEOTEXTILE									
Material		Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene	Nonwoven Needle-punched Polypropylene
Grab Tensile Strength	D4632	100 lb 445 N	100 lb 445 N	100 lb 445 N	205 lb 1,090 N	205 lb 1,090 N	115 lb 512 N	115 lb 512 N	124 lb 550 N
CBR Puncture	D6241	275 lb 1,220 N	275 lb 1,220 N	275 lb 1,220 N	580 lb 2,580 N	580 lb 2,580 N	320 lb 1,410 N	320 lb 1,410 N	292 lb 1.30kN
UV Resistance	D4355	70% / 500 hrs.	70% / 500 hrs.	70% / 500 hrs.	70% / 500 hrs.	70% / 500 hrs.	70% / 500 hrs.	70% / 500 hrs.	50% / 500 hrs.
Grab Elongation	D4632	65%	65%	65%	60%	60%	70%	70%	55%
AOS	D4751	70 sieve 210 micron	70 sieve 210 micron	70 sieve 210 micron	80 sieve 180 micron	80 sieve 180 micron	70 sieve 210 micron	70 sieve 210 micron	200 sieve 75 micron
Permittivity	D4491	2.4 sec -1	2.4 sec -1	2.4 sec -1	1.8 sec -1	1.8 sec -1	2.4 sec -1	2.4 sec -1	0.34 sec -1
Flow Rate	D4491	165 gpm/ft² 6,724 Lpm/m²	165 gpm/ft² 6,724 Lpm/m²	165 gpm/ft² 6,724 Lpm/m²	135 gpm/ft² 5,501 Lpm/m²	135 gpm/ft² 5,501 Lpm/m²	150 gpm/ft² 6,113 Lpm//M²	150 gpm/ft² 6,113 Lpm/m²	26 gpm/ft² 1,059 Lpm/m²
Root Barrier Fabric		None	None	None	None	None	None	None	Copper Hydroxide Treated Nonwoven, Needle-punched Polypropylene
CORE									
Material		Polystyrene	Polystyrene	Polystyrene	Polystyrene	Polystyrene	Polypropylene	Polystyrene	Polystyrene
Flow Capacity per unit width	D4716	12.5 gpm/ft 155 Lpm/m	18 gpm/ft 224 Lpm/m	13 gpm/ft 161 Lpm/m	18 gpm/ft 224 Lpm/m	13 gpm/ft 161 Lpm/m	18 gpm/ft 223 Lpm/M	21@HG = 0.1 261@ HG = 0.1	16/6 gpm/ft 200/75 Lpm/m
Perforated		No	No	No	No	No	No	No	No
Backing Film		No	PF – Yes	Yes	Yes	Yes	PF – Yes	No	No
Thickness	D5199	1/4 in. 6.35mm	7/16 in. 11mm	1/4 in. 6.35mm	7/16 in. 11mm	1/4 in. 6.35mm	2/5 in. 10mm	7/16 in., 1 in. 11mm, 25mm	7/16 in. 11mm
Compressive Strength	D6364 D1621	11,000 lb/ft² 527 kPa	15,000 lb/ft² 718 kPa	30,000 lb/ft² 1,436 kPa	18,000 lb/ft² 862 kPa	30,000 lb/ft² 1,436 kPa	15,000 lb/ft² 718 kPa	9,000 lb/ft² 431 kPa	15,000 lb/ft², 718 kPa

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