

## Product Description:

WaterDrain GRS is a high strength pre-assembled composite drainage mat consisting of a dimpled drainage core and two layers of geosynthetic fabric attached top and bottom. The 100% polystyrene post-industrial regrind dimpled core has water retention chambers to store water while allowing excess water to drain from under the assembly. The top filter fabric, a 100% triple spunbonded polypropylene geotextile prohibits most root growth from typical vegetated roof plants, while being permeable to water and air. The bottom fleece filter fabric acts as a protection layer to the roofing membrane while adding stability to the drain layer and filters fine particles ensuring maximum drainage efficiency.

## Basic Uses:

WaterDrain GRS is used to provide full drainage of excess water to drains underneath a Vegetated Roof Assembly while resisting high compressive loads. WaterDrain GRS drainage is far superior to that provided by a gravel drainage layer at a fraction of the weight.

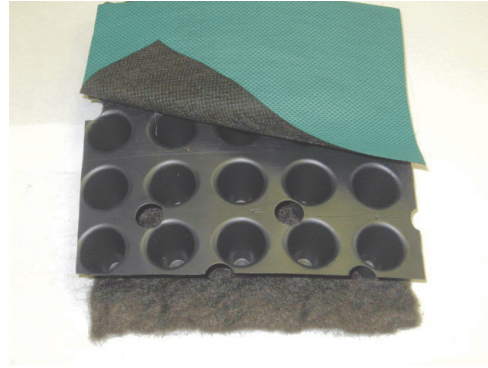
Both the upper and lower sheets of geotextiles act as filter fabrics to restrict the passage of soil particles into the drainage core. In addition to providing excellent water flow, the open drainage channel in the core of the WaterDrain GRS also provides aeration to the plant roots to prevent root rot. The extruded cones within the core are designed to support the heavy loads imposed by water saturated growing media. Depending on the orientation of the WaterDrain GRS, these cones may also act as water reservoirs to release moisture back into the growing media during dry conditions.

WaterDrain GRS is specified in conjunction with a full range of approved roofing and waterproofing membranes, such as POWERply MB, THERM, TPA, and BURmastic SF. Consult your local Tremco Representative for further information.

WaterDrain GRS can be specified for use in Vegetated Roof Assemblies, planters, plaza deck applications, under pavers, along foundation waterproofing, and in below grade waterproofing applications.

## Limitations:

- Not recommended for use over recently applied solvent based bituminous materials; allow base materials to fully cure prior to installation of WaterDrain GRS.
- Substrate must be smooth and properly sloped to drain prior to installation of WaterDrain GRS.



## Product Advantages

- Pre-assembled drain system, easy to install
- 100% Polystyrene Post-Industrial Regrind
- Reduces weight of total vegetated roof
- Filters fine particles
- Ensures drainage efficiency
- Ideal for vegetated roof systems

## Dimensions:

- 1" thick (25.4mm)
- 200 sq.ft./roll approx.
- Roll dimensions 4' x 50' (1.2m x 15.2m)
- 69 lbs/roll (31.3 kg/roll)

## Application Data:

### Waterproofing Membrane:

Waterproofing membrane and flashings must be fully installed, inspected and approved by Tremco, prior to application of WaterDrain GRS.

### Surface Preparation:

Substrate must be properly sloped, smooth, clean of dirt and debris prior to installation of WaterDrain GRS.

Approved insulation (extruded polystyrene or cellular glass) may be specified either beneath or above the WaterDrain GRS. Consult with your local Tremco Representative for further information.

### Application:

WaterDrain GRS is typically installed with the extruded cones in a position to be a water reservoir cup and with the soft geotextile fabric down. The root barrier geotextile fabric shall be positioned closest to the growing media.

Starting at the low end of the horizontal deck roll out and place WaterDrain GRS over the substrate, including drains. Over drains, cut and remove bottom fabric and the drainage core to improve flow of water into drain. All outside termination edges of WaterDrain GRS must have an additional piece of fabric enveloped

# WaterDrain GRS

## Physical Performance Characteristics

PROPERTY	TYPICAL VALUE	TEST METHOD
Drainage Core	Size (ft.) 4 x 50	
Thickness (in.)	1	ASTM D 1777
Compression (psf)	9,500	ASTM D 1621
Flow (gal/min/ft)	30	ASTM D 4716
Water Retention	0.11 gal/sq ft.	–
Weight	0.345 lbs/sq ft.	–

over the edge to prevent soil from entering the core. Overlap top layer of fabric on to adjacent sheets of WaterDrain GRS in the direction of water flow.

WaterDrain GRS may be applied to substrates in either a horizontal or vertical direction. Overlap top layer of fabric onto adjacent sheets of WaterDrain GRS in the direction of water flow. WaterDrain GRS may be wrapped around vertical corners and may be wrapped along wall/deck interfaces. If separate sheets are used at these angle changes, apply an additional piece of fabric at the junction to prevent soil from entering the core. Apply duct tape or approved underground tape to hold fabric in place until overburden or growing media is installed. Envelope and wrap fabric over and around exposed core edges at top of vertically applied WaterDrain GRS sheets to prevent growing media from entering the core.

### Availability and Cost:

Contact your local Tremco Representative for pricing and availability. For the name and number of your Representative, call the Roofing Division at 216/292-5000

### Maintenance:

Your local Tremco Roofing Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventive maintenance are all part of a sound roof program.

### Guarantee/Warranty:

Tremco Incorporated warrants WaterDrain GRS to be free of defects and to meet published physical properties. When cured and tested according to ASTM and Tremco Standards. Under this warranty, WaterDrain GRS that is proved to be defective when applied in accordance with our written instructions and in applications recommended by Tremco as suitable for this product will be replaced with like product. THIS IS BUYERS SOLE AND EXCLUSIVE REMEDY. All claims concerning product defects must be made in writing within twelve (12) months of shipment. The absence of such claims in writing during this period will constitute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied, including but not limited to, any implied warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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