DRAINAGE MATS

For Vertical: *Flow 15-P*
For Horizontal: *Flow 18-H*

Soil Drainage Mat with Built-In Protection Layer

POLYGUARD DRAINAGE MATS are three-part prefabricated geocomposite drain consisting of a formed polystyrene core covered on one side with polypropylene filter fabric. The fabric allows water to pass into the drain core while restricting the movement of soil particles which might clog the core. The core allows the water to flow to designated drainage exits. ***POLYGUARD FLOW 15-P*** is designed primarily for vertical applications and ***POLYGUARD FLOW 18-H*** is designed for horizontal applications.

POLYGUARD DRAINAGE MATS also have a built-in film protection layer. Use of a protection board is not necessary on most applications as the polymeric film layer protects softer waterproofing materials such as ***POLYGUARD 650*** waterproofing membrane.

The many uses include foundation walls, retaining walls, inclined drains, french drains, trench drains, interceptor drains, embankment drainage, athletic fields, earthen dams, planters, under slabs, and under pavers.

TYPICAL PROPERTIES	TEST METHOD	15-P	18-H
FABRIC PROPERTIES:			
Material		Polypropylene	Polypropylene
Weight, oz/yd^2	ASTM D3776	4.0	4.0
Grab Tensile Strength, lbs	ASTM D4632	110	365x200
Puncture Strength	ASTM D4833	65psi	105lbs
EOS *(AOS)*	ASTM D4751	100	40
Flow Rate, gpm/ft	ASTM D4491	150	100
CORE PROPERTIES:			
Material		Polystyrene	Polystyrene
Thickness, inch		.375	.375
Compressive Strength, lbs/ft^2	ASTM D1621 *(Mod.)*	15,000	21,000
DRAIN PROPERTIES:			
Flow Capacity, gpm/ft of width	ASTM D4716	16	18
Roll Length, feet		50	50
Roll Width, feet		4	4
Roll Weight, lbs		40	46

Polyguard

This Information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.

Polyguard has been ISO 9000 certified since 1996. Current certifications are:
- *American Natl. Standards Institute*
- *Dutch Council for Certification*
- *Deutscher Akkreditierungs Rat*

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VERTICAL INSTALLATION *(Primarily FLOW 15-P)*

1. Measure wall height or lift, adding sufficient material for overlapping pipe detail. Unroll ***FLOW 15-P*** and cut to length.

2. Peel back fabric from drainage core and remove 4" of core. *(Drain core should remain 6-12 inches below backfill.)*

3. At top termination glue fabric to wall or tuck fabric under core when using a furring strip. (*Furring strip can be removed after backfilling.)*

4. Glue adjacent panels at the vertical joints, making sure that fabric overlaps to prevent soil intrusion when backfilling.

5. At drain tile, peel back fabric from drainage core and wrap around drain tile. Tuck excess fabric under core, making sure inner core has direct contact with drain tile.

6. Backfill as soon as possible.

HORIZONTAL INSTALLATION *(FLOW 18-H)*

1. Clean horizontal surface of loose debris and unroll ***FLOW 18-H*** fabric side up in the direction of maximum slope.

2. Attach ***FLOW 18-H*** to the surface with double-sided tape or adhesive that is compatible with waterproofing membranes.

3. For overlaps, place adjacent panels so that the cores abut.

4. Secure the fabric overlap at five foot intervals with glue or tape.

5. Join roll ends by peeling back fabric and removing 4" of core.

6. Place end panels so that cores abut, then glue or tape fabric overlap.

NOTE: All core joints must be covered by fabric overlay. Protect waterproofing with approved protection system.

RECOMMENDED ADHESIVES

Polyguard 650 LT Liquid Adhesive, Maxbond Construction Adhesive, H B Fuller Co Plionail, Goodyear Liquid Nails, Miracle 297, 294, and Gibson-Homans Shur-Stick 94.

NOTE ON ISO 9000

Polyguard drainage mats are not covered by Polyguard's ISO 9001 quality system registration.