

# POLYGUARD FLOW 10 HV DRAINAGE MAT

**POLYGUARD FLOW 10 HV DRAINAGE MAT** is a two-part prefabricated soil sheet drain and protection board consisting of a formed polyethylene core covered on both sides with a non-woven, needle-punched polypropylene filter fabric. The filter fabric retains soil or sand particles as well as freshly placed concrete or grout, allowing filtered water to pass through to the drainage core - **POLYGUARD FLOW 10 HV DRAINAGE MAT** provides drainage from one side only.

The many uses include foundation walls, retaining walls, planters, & roof gardens.

TYPICAL PROPERTIES	TEST METHOD	10 HV
<b>FABRIC PROPERTIES:</b>		
Grab Tensile Strength, lbs	ASTM D4632	110 lbs.
Puncture Strength	ASTM D4833	65 lbs.
EOS (AOS)	ASTM D4751	100 U.S. Sieve
Flow Rate, gpm/ft	ASTM D4491	150
<b>CORE PROPERTIES:</b>		
Material		Polyethylene
Compressive Strength, lbs/ft <sup>2</sup>	ASTM D1621 (Mod.)	30,000 psf
<b>DRAIN PROPERTIES:</b>		
Roll Length, feet		75
Roll Width, feet		4
Roll Weight		32 lbs

## VERTICAL INSTALLATION

1. Measure wall height or lift, adding sufficient material for overlapping pipe detail. Unroll **FLOW 10 HV** 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.



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

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## HORIZONTAL INSTALLATION

1. Clean horizontal surface of loose debris and unroll **FLOW 10 HV** fabric side up in the direction of maximum slope.
2. Attach **FLOW 10 HV** 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 are butted together.
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 drain 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.