

POLYFLOW® 18

Horizontal Drainage Mat

PRODUCT NAME

Polyflow® 18

MANUFACTURER

Polyguard Products, Inc.

Ennis, TX 75119

(214) 515-5000

www.polyguardproducts.com

PRODUCT DESCRIPTION

Polyflow® 18 Drainage Mat is two-part prefabricated geocomposite drain consisting of a formed polystyrene core covered on one side with woven mono-filament 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. Polyflow 18 is designed for horizontal applications.

Polyflow 18 Drainage Mat is compatible as a protection layer for Polyguard waterproofing membranes.

The many uses of Polyflow 18 Drainage Mat include foundation walls, retaining walls, inclined drains, french drains, trench drains, interceptor drains, embankment drainage, earthen dams, under slabs, under foot traffic pavers, and planters. Virtually anywhere an aggregate drainage system has been used to relieve hydrostatic pressure Polyflow 18 can be used more efficiently.

COLLECTION SYSTEMS

Polyflow Drainage Mats may be used with Totalflow®, perforated pipe, or drain tile for collection of drainage to the designed exit drainage.



TECHNICAL DATA

See physical properties table.

HORIZONTAL INSTALLATION

1. Clean horizontal surface of loose debris and unroll Polyflow 18 fabric side up.

2. For horizontal deck installation, Polyflow 18 may be loosely laid directly over the waterproofing membrane. Edges of the core with the flange should be at higher side of the deck or plaza, away from any drains.
3. Attach Polyflow 18 to horizontal surface to be drained with double-sided tape or adhesive that is compatible with waterproofing membrane or use temporary ballast to hold drain in place during the placement of deck surface.
4. For overlaps, place adjacent panels so that core flange overlap and shingle in the direction of flow to drain collection system, scuppers, or simply daylight.
5. Secure the fabric overlap at necessary intervals with glue or tape to prevent soil or concrete intrusion.
6. Join roll ends by peeling back fabric and interlocking at least two rows of dimples and then overlap fabric and tape or secure with glue to prevent soil or concrete intrusion.
7. For Underslab installation, fabric side should be down or towards the soil.

RECOMMENDED ADHESIVES

650 LT Liquid Adhesive, Maxbond Construction Adhesive, H B Fuller Plionail, Goodyear Liquid Nails, Miracle 297, 294.

SAFETY

MSDS sheets for all Polyguard products can be obtained at our website www.polyguardproducts.com. Call Polyguard Products, Inc. at 214.515.5000 with questions.

WARRANTY

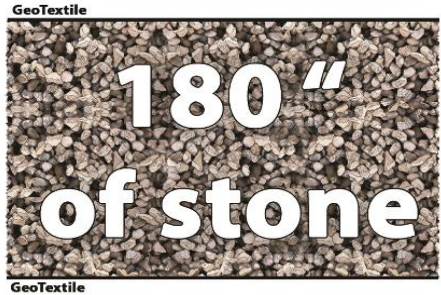
We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product are beyond our control; such as weather, workmanship, equipment utilized and prior condition of the substrate. We will replace at no charge product proved to be defective within twelve (12) months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. A five (5) year material or system warranty may be available upon request. Contact Polyguard Products, Inc. for further details.

TECHNICAL SERVICES

Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

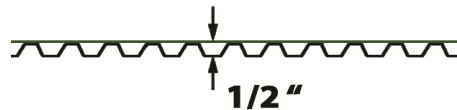
Product Data Sheet

Cost Reduction Opportunity



VS.

Polyflow® 18



Polyflow® 18, with 1/2" height, can move more drainage water per foot width than a layer of stone which is a foot wide and 180" high. (*Manning's equation used to calculate flow for the stone*)

PHYSICAL PROPERTIES TABLE

PROPERTY	TEST METHOD	TYPICAL VALUE
DRAIN PROPERTIES		
FLOW CAPACITY	D 4716	21 gpm/ft of width
ROLL LENGTH	-	50 ft.
ROLL WIDTH	-	4 ft.
ROLL WEIGHT	-	50 lbs.
CORE PROPERTIES		
MATERIAL	-	Polystyrene
THICKNESS	D 1777	0.375 inch
COMPRESSIVE STRENGTH (+ OR - 5%)	D 1621 Modified	18,000 lbs/ft ²
FABRIC PROPERTIES		
MATERIAL	-	Polypropylene
GRAB TENSILE STRENGTH	D 4632	365x200 lb.
GRAB ELONGATION	D 4632	10%
PUNCTURE STRENGTH	D 4833	105 PSI
EOS (AOS)	D 4751	40 US Sieve
FLOW RATE, GPM/FT	D 4491	100 gpm/ft ²
UV AT 500 HOURS (STRENGTH RETAINED)	D 4355	70%

P.O. Box 755
Ennis, TX 75120
PH: (214) 515-5000
FX: (972) 875-9425

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