

POLYFLOW® 15P

Vertical Drainage Mat

PRODUCT NAME

Polyflow® 15P

MANUFACTURER

Polyguard Products, Inc.

Ennis, TX 75119

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www.polyguardproducts.com

PRODUCT DESCRIPTION

Polyflow® 15P Drainage Mat is 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. Polyflow 15P is designed for vertical applications.

Polyflow 15P has a built-in Polymeric film protection layer for use as required by the manufacture of some waterproofing materials in order to be a compatible protection layer.

The many uses of Polyflow 15P Drainage Mat include foundation walls, retaining walls, inclined drains, french drains, trench drains, interceptor drains, embankment drainage, earthen dams, and planters. Virtually anywhere an aggregate drainage system has been used to relieve hydrostatic pressure Polyflow 15P 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.

VERTICAL INSTALLATION

Measuring:

If using Totalflow, measure perimeter of wall and place a two foot section of Totalflow around the perimeter. Measure wall height from top of Totalflow, unroll the Polyflow Drainage Mat, and cut to length.

Product Data Sheet

If using perforated pipe, measure wall height or lift, adding sufficient material for overlapping pipe detail. Unroll Polyflow Drainage Mat and cut to length. Peel back fabric from drainage core and remove 4" of core. Drain core should remain 6"-12" below backfill.

If using drain tile, measure wall height, adding sufficient material so that there is enough fabric, when fabric is peeled back from drainage core, to wrap around the drainage tile.

Installing:

At the top termination, glue fabric to wall or, if using a furring strip or Polyguard termination bar, tuck fabric under core. Furring strip / termination bar can be removed after backfill is completed.

Glue or tape adjacent panels at the vertical joints, making sure the fabric overlaps to prevent soil intrusion during backfill.

Tie-in to the collection system can be done with a simple fabric overlap (if using the Totalflow system). If using perforated pipe, peel back fabric from Polyflow Drainage Mat core and remove 4" of core. Drain core should remain 6"-12" below backfill. If using drain tile, wrap fabric which has been pulled away from the core completely around the drain tile. Tuck excess fabric back behind the core. Make sure the drain tile is in direct contact with the Polyflow Drainage Mat core.

Backfill as soon as possible after drain installation.

Polyflow Drainage Mat is a green product with over 60 per cent of the product made from recycled materials.

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.

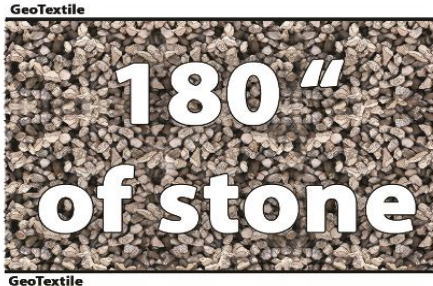
WARRANTY

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 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

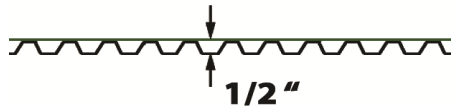
Technical assistance, information and Polyguard's products are available through a nationwide network of distributors and architectural representatives, or contact Polyguard Products, Inc.

Cost Reduction Opportunity



VS.

Polyflow® 15P



Polyflow® 15P, with 1/2" height, can move more drainage water per foot width than a layer of stone which is 1 ft. and 180" high. (Manning's equation used to calculate flow for the stone)

PHYSICAL PROPERTIES TABLE

PROPERTY	TEST METHOD	TYPICAL VALUE
DRAIN PROPERTIES		with soft waterproofing
FLOW CAPACITY	ASTM D 4716	16 gpm/ft of width
ROLL LENGTH	-	50 ft.
ROLL WIDTH	-	4 ft.
ROLL WEIGHT	-	45 lbs.
CORE PROPERTIES		
MATERIAL	-	Polystyrene
THICKNESS	ASTM D 1777	0.375 inch
COMPRESSIVE STRENGTH (+ OR - 5%)	ASTM D 1621 Modified	15,000 lbs/ft ²
POLYMERIC FILM LAYER	-	Yes
FABRIC PROPERTIES		
MATERIAL	-	Polypropylene
GRAB TENSILE STRENGTH	ASTM D 4632	110 lb.
GRAB ELONGATION	ASTM D 4632	60%
PUNCTURE STRENGTH	ASTM D 4833	65 PSI
EOS (AOS)	ASTM D 4751	100 US Sieve
FLOW RATE	ASTM D 4491	150 gpm/ft ²
UV AT 500 HOURS (STRENGTH RETAINED)	ASTM D 4355	70%

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