

## TOTALFLOW™

High-Capacity Sheet Molded Perimeter Drain

### PRODUCT NAME Totalflow™

### MANUFACTURER

Polyguard Products, Inc.  
Ennis, TX 75119  
(214) 515-5000  
[www.polyguard.com](http://www.polyguard.com)

### PRODUCT DESCRIPTION

Totalflow™ is a prefabricated, high-capacity sheet molded perimeter drainage system constructed using a formed polystyrene core, designed specifically to transition water collected from sheet drains to an outlet drain. The Totalflow System provides three advantages over the use of perforated pipe:

- The high-profile Totalflow section has a larger open area than perforated pipe, allowing it to accept higher water flow from the sheet drain and surrounding soil.
- Totalflow, with its manufactured transition between the sheet drain and high profile section, provides a secure flow path that is not dependent upon field installation.
- The Totalflow System is fast and easy to install. It eliminates the select backfill requirements normally required to provide strength to perforated pipe.

### BASIC USES

Totalflow is used for below-grade relief of hydrostatic pressure over foundation and retaining walls.

Basic post-applied perimeter drainage and protection course uses include the following:

- Sheet-applied waterproofing
- Fluid-applied waterproofing

Basic pre-applied perimeter drainage and protection course uses include the following:

- Blindside
- Passive venting systems

### TECHNICAL DATA

See physical properties table.

### VERTICAL INSTALLATION

The first row of drain to be installed is the Totalflow™ at the bottom of the wall. The drain should sit on top of the footing with the high-profile part of the drain at the bottom to provide high lateral water flow.

### PLACEMENT

If not using Polyflow® 10, 10P, 15, or 15P Sheet Molded Drainage for full wall coverage, close the top end of the drain to prevent soil intrusion by folding the fabric behind the drain.

To attach the next roll of Totalflow™, abut adjacent panels together and then tape the joint with duct tape, recommended adhesive, or 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.

## Product Data Sheet

Over earth retention system or natural rock, place the fabric side toward the earth side of the application. Over post-applied sheet or fluid-applied waterproofing, place the fabric side to the interface with the back-fill material.

### TIE-INS

When full wall drainage is required, tie-in Polyflow 10, 10P, 15, or 15P Sheet Molded Drainage to the top edge of the Totalflow as described in their respective data sheet. Butt adjacent panels together with tape, recommended adhesive, or 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.

### FASTENING / GLUING

Fasten Totalflow to earth retention systems or natural rock with minimum 1" diameter capped fasteners, suited to the substrate.

### RECOMMENDED ADHESIVES

Glue Totalflow to the face of post-applied sheet or fluid-applied waterproofing membrane using either 650 LT Liquid Adhesive, California Sealant, Quick Grip Adhesive or another low-rise spray adhesive that is compatible with the sheet or fluid membrane.

Totalflow Tee and End Outlet Fittings are available for transitioning to a hard pipe system.

### NOTE ON ISO 9000

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

### SAFETY

SDS documents for all Polyguard products can be obtained at our website [www.polyguard.com](http://www.polyguard.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.  
P.O. Box 755, Ennis, TX 75120-0755  
Sales: (615) 217-6061 • Tech Support: (214) 515-5000 • Fax: (615) 691-5500  
Email: [archtech@polyguard.com](mailto:archtech@polyguard.com)  
Website: [www.polyguard.com](http://www.polyguard.com)

PROPERTY	TEST METHOD	TYPICAL VALUE
<b>FABRIC</b>		
MATERIAL <sup>1</sup>		PP
WATER FLOW RATE	ASTM D 4491	150 gpm/ft <sup>2</sup>
GRAB TENSILE STRENGTH	ASTM D 4632	115 lbs.
PUNCTURE RESISTANCE	ASTM D 4833	70 lbs.
APPARENT OPENING SIZE	ASTM D 4751	70 sieve
PERMITTIVITY	ASTM D 4491	2.2 sec <sup>-1</sup>
GRAB ELONGATION	ASTM D 4632	70%
UV RESISTANCE	ASTM D 4355	70 % / 500 hrs.
SHEET SECTION	ASTM D 4716	21 gal/min/ft <sup>2</sup>
HIGH PROFILE SECTION	ASTM D 4716	150 gal/min/ft <sup>2</sup>
<b>CORE THICKNESS</b>		
SHEET SECTION		.44 inch
HIGH PROFILE SECTION	ASTM D 1777	1.0 inch
COMPRESSIVE STRENGTH	ASTM D 1621	9,000 psf
FLOW RATE <sup>2</sup>	ASTM D 4716	21 gpm/ft
RECYCLED CONTENT		78%

1 - PP - Polypropylene: HIPS = High Impact Polystyrene

2 - In plane flow rate measured at 3,600 psf (172 kPa) compressive load and hydraulic gradient of 0.1

PACKAGING DRAINAGE & ACCESSORIES	PART NUMBER	UNIT SIZE
TOTALFLOW™	TOTAL FLOW	24" x 50' roll
TOTALFLOW™ END OUTLET (4")	OUTLET4-UNIV	N/A
TOTALFLOW™ TEE OUTLET (4")	TEE4-UNIV	N/A
POLYFLOW® 10	POLYFLOW10	4' x 50' roll
POLYFLOW® 10P	POLYFLOW10P	4' x 50' roll
POLYFLOW® 15	POLYFLOW15	4' x 50' roll
POLYFLOW® 15P	POLYFLOW15P	4' x 50' roll
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 5 GA	5 gallon pail
650 LT LIQUID ADHESIVE	650-5 LIQ ADH 1 GA	4 - 1 gallon pails/ctn
CALIFORNIA SEALANT	CALSEAL5	5 gallon pail
QUICK GRIP ADHESIVE	QGADH30	30# canister

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

The information contained in this document is based on data and knowledge considered to be true and accurate at time of printing and is offered for the users' consideration, investigation and verification. Polyguard Products, Inc. cannot be held liable for errors made as a result of information herein. Changes and modifications can be made to this document without prior notice. No statement, recommendation or suggestion is intended for use which would infringe on patents or copyrights held by Polyguard Products, Inc. Polyflow® is a Registered Trademark of Polyguard Products, Inc.

