



SHOREFLEX[®]
VEGETATED CONCRETE BLOCK MAT



SHOREFLEX[®]

ELIMINATES EROSION.

EASY INSTALL.

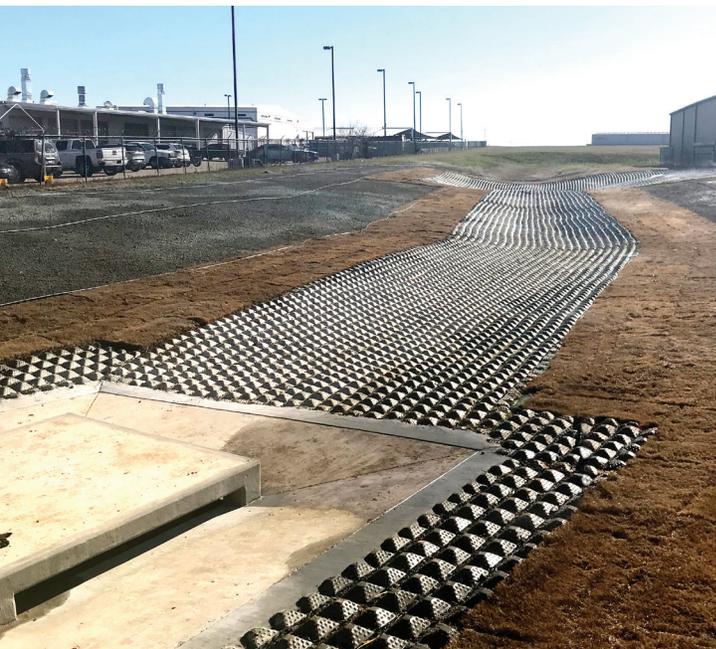
GROWS GREEN.

**UNIFORM AND CONSISTENT
PERFORMANCE.**

APPLICATIONS

- **Bridge Abutment**
- **Canoe-Kayak Launch**
- **Channel Lining**
- **Curb Inlet**
- **Detention Basin**
- **Existing Outlet**
- **Letdown Channel**
- **Low Volume Channel**
- **New Outlet**
- **Overflow**
- **Pipeline Protection**
- **Roadside Channel**
- **Shoreline**
- **Slope Protection**
- **Wind & Solar Farm**

Applications



ShoreFlex® Product Properties

ShoreFlex® is offered in a wide variety of sizes to fit your specific needs. Custom sizes are available at additional cost. Max weight shown is max roll weight for shipping estimation.



WIDTH		LENGTH	8'	16'	25'	32'	50'
4'		ROLL WEIGHT (lbs)	352	704	1,100	1,408	2,200
		MATS/TRUCKLOAD	127	63	40	31	20
8'		ROLL WEIGHT (lbs)	704	1,408	2,200	2,816	4,400
		MATS/TRUCKLOAD	63	31	20	15	10
10'		ROLL WEIGHT (lbs)	880	1,760	2,750	3,520	5,500
		MATS/TRUCKLOAD	51	25	16	12	8
16'		ROLL WEIGHT (lbs)	1,408	2,816	4,400	5,632	8,800
		MATS/TRUCKLOAD	31	15	10	7	5

CUSTOM SIZES AVAILABLE UP TO 16' WIDE
ROLL WEIGHT IS MAX SHIPPING WEIGHT

SHOREFLEX® TECHNICAL INFORMATION

Blocks 5,000 PSI, Wet-Cast Portland Cement / ASTM C39/C39M

Block Size 6.5"x 6.5"x 2.5" / Avg. Weight: 4.5 lbs

Percentage Open Area (POA) 30% min.

Material Weight Min. 10 lbs. / sf

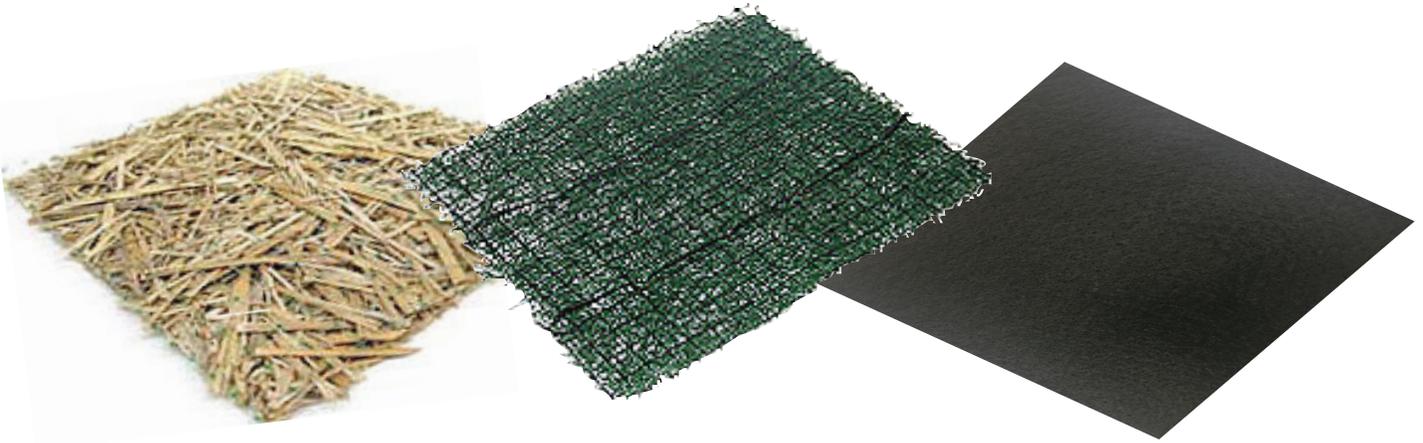
SF Per Load 4,000 to 4,300 lbs/TL (pending trucking ability and roll sizes)

Interlocking Polypropylene 30/30 w/ 2,000 lb/ft biaxial strength
Grid Aperture 1.6"

Backing Options Double Net Straw (DNS2), GS 50, Non-Woven Fabrics

Anchor Types 18" Rebar "U" & Earth Anchors
Stainless, Galvanized or Steel

ShoreFlex® Backing Options



**Double Net Straw
DNS 2**

**Turf Reinforcement Mat
GS50**

**Non-Woven
Geotextiles**

Shoreflex® can provide your project with various erosion control backings for your concrete mats. Customized backings allow for site specific seed and soil retention, providing different levels of longevity.

ShoreFlex® Roll Delivery Options

- **Onsite Installation Support**
- **Multiple Anchoring Systems Available**





Test Channel Setup



Test Channel Outfall



High Flow in Channel



Post Test

Testing: Current federal design procedures utilize bed shear stress for primary stability analysis. This approach takes into consideration: velocity, depth of flow, and energy slope gradient to determine how much hydraulic energy (bed shear) is incident on the ShoreFlex® mats. ShoreFlex® has been flume tested to withstand shear stresses of 18lb/ft² and velocities of 30 ft/s.

Performance

Test	Tested Value	Bed Slope	Soil Classification	Limited Value
ASTM 6460-12	Shear Stress	10% & 20%	Clayey Sand (USCS) Loam (USDA)	18+ psf
ASTM 6460-12	Velocity	10% & 20%	Clayey Sand (USCS) Loam (USDA)	30+ ft/sec

HEC-RAS

HEC-RAS has been developed for the U.S. Army Corps of Engineers (USACE). HEC-RAS is a hydraulic modeling system used to properly analyze flow conditions in multiple situations.

<http://www.hec.usace.army.mil/software/hec-ras/downloads.aspx>

SHOREFLEX® DETAILS

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LEADING EDGE TRENCHED IN 18" OR 3' BLOCKS

ANCHORS INSTALLED IN 6' INCREMENTS

ANCHORS INSTALLED EVERY 6'

OVERLAP DETAIL PERPENDICULAR TO WATER FLOW

INSTALL ANCHORS IN 6' INCREMENTS AT EDGE OF MAT

INSTALL ANCHORS IN 6' INCREMENTS AT EACH OVERLAP

18" MAT SHINGLE

TRENCH LEADING EDGE 18" OR 3' BLOCKS & BACKFILL WITH NON-ERODIBLE MATERIAL

LONGITUDINAL SHOREFLEX SEAM

UNDERLAY SEAM MUST BE EVENLY PLACED UNDER BOTH MAT EDGES & UNDERLAYMENT MATERIAL MUST BE A MINIMUM OF 3" WIDE.

EDGE EXPOSED TO SHEET FLOW RECESS TWO OUTSIDE BLOCKS 12" INTO SUBGRADE

ALL EDGES NOT EXPOSED TO SHEET FLOW MUST BE TRENCHED IN A MIN. OF 18" OR 3' BLOCKS

GENERAL NOTES:

1. WHEN POSSIBLE, AVOID PARALLEL SEAMS IN THE MIDDLE OF THE CHANNEL.
2. UNDERLAYMENT MATERIAL SHOULD BE OF AN EQUAL OR GREATER HYDRAULIC PERFORMANCE COMPARED TO UNDERLAYMENT BACKING.

Drawing N.T.S.

<p>Permanent Erosion Control Solutions</p> <p>A Product of SHORETEC</p>	Project:		<p><small>DISCLAIMER</small></p> <p>THE INFORMATION CONTAINED HEREIN HAS BEEN COMPILED BY SHORETECH LLC AND TO THE BEST OF OUR KNOWLEDGE, ACCURATELY REPRESENTS THE SHOREFLEX® PRODUCT USE IN THE APPLICATIONS WHICH ARE ILLUSTRATED. FINAL DETERMINATION OF THE SUITABILITY FOR THE USE, CONTINGENTATED AND ITS MANNER OF USE ARE THE SOLE RESPONSIBILITY OF THE USER. STRUCTURAL DESIGN AND ANALYSIS SHALL BE PERFORMED BY THE QUALIFIED ENGINEER.</p>
	Customer:		
	Detail Title:	ShoreFlex Wide Channel	

Installation Details

Typical installation details available at www.shoreflex.com

Custom installation details available upon request.



Download our “**PRODUCT SPECIFICATIONS**” on line at SHOREFLEX.COM

• ShoreFlex® Standard:	Regular Black Polypropylene Grid GS50 Backing
• ShoreFlex® Ultra UV:	Tan Polypropylene UV Resistant GeoGrid with GS50 Backing
• ShoreFlex® Pro:	Black Polypropylene GeoGrid with GS50 & DNS-50
• ShoreFlex® Ultra UV Pro:	Tan Polypropylene UV Resistant GeoGrid with GS50 & DNS-50 Backings

Multiple anchoring systems available.



www.shoreflex.com
800 575 7293



SHOREFLEX®

PREMIER
CONCRETE PRODUCTS

Customer should verify with the product manufacturer that customer has the most current **ShoreFlex®/Premier Concrete®** specifications for the product ordered or purchased. The **ShoreFlex®/Premier Concrete®** system can be used in the application described in our literature and on our website, provided proper installation and engineering principles are followed. Professional engineering should be consulted before installation of **ShoreFlex®/Premier Concrete®** units to assure appropriate design and use. ALL EXPRESSED OR IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. **ShoreFlex®** is a trademark of Premier Concrete Products, Inc.