

Exterior Below-Grade Commercial/ Residential Waterproofing Membrane

Geo-mat

Description

Geo-Mat rolls are **Made in the USA** of a high-density polyethylene (HDPE) that offers a strong resistance to hydrostatic pressure and excellent drainage.

The dimples are aligned along a vertical and horizontal axis to rapidly channel water from grade to the footer drainage system. The stud shaped dimples provide an air chamber between the roll and wall which keeps the wall dry.

Geo-Mat is considered a GREEN product due to the recycled content used to produce the sheet.

There are Geo-Mat accessories as well to professionally complete any job.

Installation

Note: The Geo-Mat unrolls right to left. The top of the roll has a termination edge and the dimples will be facing inward toward the foundation wall.

1. Unroll the Geo-Mat dimples facing in.
2. Note: It is recommended to allow the Geo-Mat to drape over top of the footing but not required.
3. Starting at a corner one person holds the termination edge to the grade line, while another person installs the Geo Clips along the side edge to hold in place.
 - a. The Geo Clips were designed to help distribute weight of the board and speed up the installation process.
 - b. The clips can be placed every 12 to 15" sporadically along the wall and over the seams. The prongs are placed over the dimples of the roll and a nail is inserted into the preformed center nail hole to attach it to the wall.
 - c. Generally 80-100 clips per 8'x50' roll-***See "Clip Placement Diagram" for reference.**
 - d. Use of a Hiltel GX120 and X-U 32 1-1/4" spiral concrete nail is recommended for clip/fastener application.
4. Install the Geo-Mat Profile/Termination Bar along the top edge of the membrane at grade level to prevent soil and water penetration between wall and roll.
 - a. Profile has notched nail holes for ease of installation.
 - b. Profiles come 50/box, each 6'6" long.
 - c. Place the profile along the top edge of the roll being sure to overlap the top roll of dimples. Secure with nails.
 - d. Cut off any excess termination strip above profile if any.

INSTALLATION AROUND CORNERS:

1. Inside corners: Press into corners as tightly as possible. After pushing into corner, install Geo Clips along seam at 12" intervals. Install profile along top edge.
2. Outside corners: Press membrane around the corner and then install Geo Clips along seam at 12" intervals keeping membrane as tight against the wall as possible.

JOINTS & OVERLAPS:

1. Where seams come together overlap the dimples 6" and use Geo Clips every 12" - 15" to create continuous coverage of the wall.
2. For installation higher than 8', install bottom course first and then overlap the top course onto the bottom by at least 6".
3. Once you have reached the grade line, a utility knife or similar tool can be used to cut the roll to the correct height.

PROFILE/TERMINATION BAR:

It is recommended to install the Mar-flex profile along any below grade cut of the membrane such as at windows, walkouts, vertical and horizontal termination, etc.

ADHESIVE BAND:

When desired, the adhesive band can be used to seal overlaps or other critical points.

1. Apply the Adhesive Band between the two layers on the flat part (not the dimpled side). The adhesive band can be cut with a utility knife or similar.

REPAIRS:

Should the Geo-mat get damaged prior to backfill, cut patches of the Geo-mat large enough to cover the tear at a minimum of 6" around damaged area. Apply a bead of 100% Silicone Caulk around the tear. Apply patch over tear and install Geo-clips to hold the patch tightly against membrane making sure dimples align.

SERVICE PENETRATIONS:

1. Place the Geo-Mat membrane flush to penetration.
2. Cut the Geo-Mat vertically, fastening with Geo-Clips.
3. Restart application on the other side of penetration, unrolling enough to go around the penetration plus an additional 6" and cut.
4. Take a utility knife and cut a horizontal slit in this piece at the center point of the penetration.
5. Push membrane snug around penetration and trim as needed.

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6. Peel back trimmed membrane and seal around penetration with mastic and push the membrane back snug.
7. Interlock overlapping dimples and use fasteners on both top and bottom slits.

CLEAN UP:

1. Clean up debris around jobsite.
2. Recycle when possible.
3. Disposal methods must be in compliance with all federal, state and local laws and regulations.

PRODUCT HANDLING/STORAGE:

- Do not store in sunlight (UV Exposure) for more than 30 days

Technical Data

Product Name	Geo-mat	Method
Color	Gray	
Material	Recycled High-Density Polyethylene	
Dimple Height	.315 (8mm)	ASTM D6364-06
Compressive Strength	5515 psf	ASTM D6364-06
Mil Thickness	21-25 mil thickness / .025 in flat area .021 in bubble area	ICC-ES AC114
ICC	ESR-3062	
Flow Rate	18 gal/min/ft	ASTM D4716-08
Temperature Range	-20°F to 175°F	ASTM D5261-92
Chemical Properties	Excellent chemical resistance	
Toxicity	Non-toxic, non-polluting	
Weight per unit area	21.70 oz/yd ² 736 (g/m ²)	ASTM D5261-92
Roll length	50'	
Roll width/weight	4'-26lbs. 6'-34lbs 8'-44lbs	
Service life expectancy	>30 years (at pH between 4 and 9, and temperature below 77°F / 25°C)	

Limited Warranty

Mar-flex Products warrants its products will be delivered free of defects in materials and workmanship. Mar-flex will replace the material or refund the purchase price. Mar-flex makes no other warranty, including an implied warranty of merchantability or fitness for a particular purpose. Mar-flex shall not be liable for any other loss or damage. Contact Mar-flex to discuss specific details for extended warranty periods.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE SAFETY DATA SHEET (SDS) AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

