

Exterior Below-Grade Commercial Dampproofing & Wall Waterproofing

Geo-mat® Plus

Technical Data Sheet Geo-mat® Plus

Material Description

Geo-Mat Plus rolls are made 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 Plus is considered a GREEN product due to the recycled content used to produce the sheet. The Geo-mat Plus comes with an attached polypropylene geotextile mat.

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

Properties

Geo-mat Plus is a dimpled membrane with Geotextile fabric, impermeable to water and water vapor. The pattern creates an air-gap between the membrane and the foundation wall. This allows any water getting past the dimples to flow freely to the footer drain. It can also be used as protective layer over spray or sheet applied waterproofing systems. The Geo-mat Plus is available in two sizes to cover an area with minimal overlaps and seams. The high compressive strength of the membrane ensures protection to the foundation wall up to 16ft below grade.

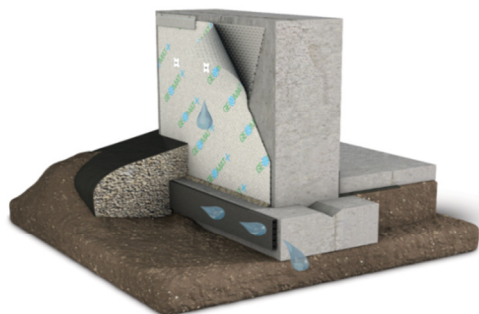
Application

Note: The Geo-Mat Plus unrolls right to left. The top of the roll has a termination edge. Unroll the Geo-Mat Plus, fabric facing out.

Note: It is recommended to allow the Geo-Mat Plus to drape over top of the footing but not required.

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. Use of a Hilti GX120 and X-U 32 1-1/4" spiral concrete nail is recommended for clip/fastener application.

Mar-Flex products support sustainable and energy efficient building efforts, including achieving LEED certification.



Technical Data

Product Name	Geo-mat Plus	Method
Color	Gray with white fabric	
Material	Recycled High-Density Polyethylene Geotextile: polypropylene	
Dimple Height	5/16" (8mm)	ASTM D1777-96
Compressive Strength	7590 psf	ASTM D6364-06
Fire Resistance	B2 B1 Available upon request	DIN 4102
Flow Rate	18 gal/min/ft (223 l/min/m)	ASTM D4716-08
Air-gap volume between dimples	Approx. 0.13 gal/ft² (5.3 l/m²)	ASTM D4716-08
Water penetration resistance	>120 psi (815kPa) Watertight	AATCC 127-1995
Water vapor transmission	<22 ng/(Pa s m²)	ASTM E96 Meth A
Vapor permeance	<0.3 perms [grains/h/ft²/in Hg]	ASTM E96 Meth A
Temperature Range	-22°F to 175°F (-28.8°C to +79.4°C)	ASTM D5261-92
Chemical Properties	Excellent chemical resistance, resistant to root penetration, rot proof	
Toxicity	Non-toxic, non-polluting	
Weight per unit area	21.70 oz/yd² 736 (g/m²)	ASTM D5261-92
Roll dimensions/weight	4'x50' (1.22m x 15.2m) 32 lbs (14.52kg) 8'x50' (2.44m x 15.2m) 64 lbs (29.03kg)	
Service life expectancy	>30 years (at pH between 4 and 9, and temperature below 77°F / 25°C) Do not expose to UV light for more than 30 days.	
Geo-mat Accessories	Geo-mat Profile Geo-mat Clip Geo-mat adhesive band	

For technical support, please call 800-498-1411, or visit www.mar-flex.com