



**WATERPROOFING &  
BUILDING PRODUCTS**



**COMMERCIAL  
PRODUCT**



**RESIDENTIAL  
PRODUCT**



# **ULTIMATE GROUND WATER CONTROL FOR STRUCTURES**



## **Sealed, Smart, and Sustainable**

- Environmentally friendly and ecologically sound
- 100% recycled drainage mat
- Top performing drainage mat
- Green LEED® Contributor

# **GEOMAT+**

*Technically Superior by Design*

## WHAT IS GEOMAT+™?

Mar-flex GeoMat+ is a **geocomposite drainage membrane** manufactured from recycled polyolefin resins which are selected for their specific properties to contribute to premium quality plastic sheet products. These resins also **contribute to the LEED credits and Green Building practices** which are in high demand throughout the construction market for residential, commercial and institutional projects.

The Mar-flex GeoMat+ geocomposite drainage membrane is a thermally formed HDPE membrane with a heat bonded geotextile onto the sheet to allow front “positive” side drainage to take place, providing a continuous capillary break between the foundation wall and the membrane. The membrane **stops ground water from making direct contact with the foundation wall** thereby providing a stand alone or composite waterproof protection system with built in drainage.

The positive side air gap created allows the soil to naturally drain and redirects ground water moisture to this air gap, **reducing the effects of interior moisture accumulation** from footing moisture wicking, or transient moisture from making direct contact with any liquid applied waterproofing layer.

The air gap also **reduces the chances of foundation leakage** through imperfections in concrete and concrete block walls such as shrinkage cracks, by providing a continuous sheet of protection over the foundation wall. Since the membrane is mechanically fastened to the foundation it is independent of the wall it protects, and **continues protecting the wall even if foundation defects appear after installation.**

With a complete line of accessories specifically designed for attachment, overlaps and terminations of the GeoMat+, the installation is seamless and effective at keeping foundations dry and comfortable.

## PRODUCT DESCRIPTION

The dimple height is 0.315" (8mm) providing a drainage capacity of ± 18 gal/min/ft and a compressive strength of 7590 psf. High Density Polyethylene (HDPE) is highly resistant to chemical attack and **has a life expectancy of 50+ years** when used as recommended. GeoMat+ is suitable for use in most soil types (including some poor draining soil types) to a depth of up to 16 feet without

the need for special considerations, where hydrostatic pressures may be anticipated.

As the dimples of the Mar-flex GeoMat+ are aligned in straight rows, the free drainage path is unobstructed which translates into higher flow rates for improved drainage characteristics compared to some competitive products in the marketplace which use an offset pattern of dimple placement. The geotextile is a polypropylene type with a sieve size chosen for good filtration and water flow rates to maximize drainage.

## PRODUCT USE

The use of the GeoMat+ is suited for use on residential foundations, shallow light commercial foundations, and other construction types that utilize the ICC IRC or the IBC (damp proofing) requirements for below grade protection of foundations and structures. Applications using this membrane can be completed as a standalone protection system or in combination with other materials such as liquid applied membranes for a systems approach to subterranean protection.

Mar-flex GeoMat+ provides superior protection and unmatched cost savings when compared to conventional construction techniques typically used to provide similar protection. GeoMat+ is a good environmental choice, for now and the future, Superior by design, “Ultimate in Protection.”

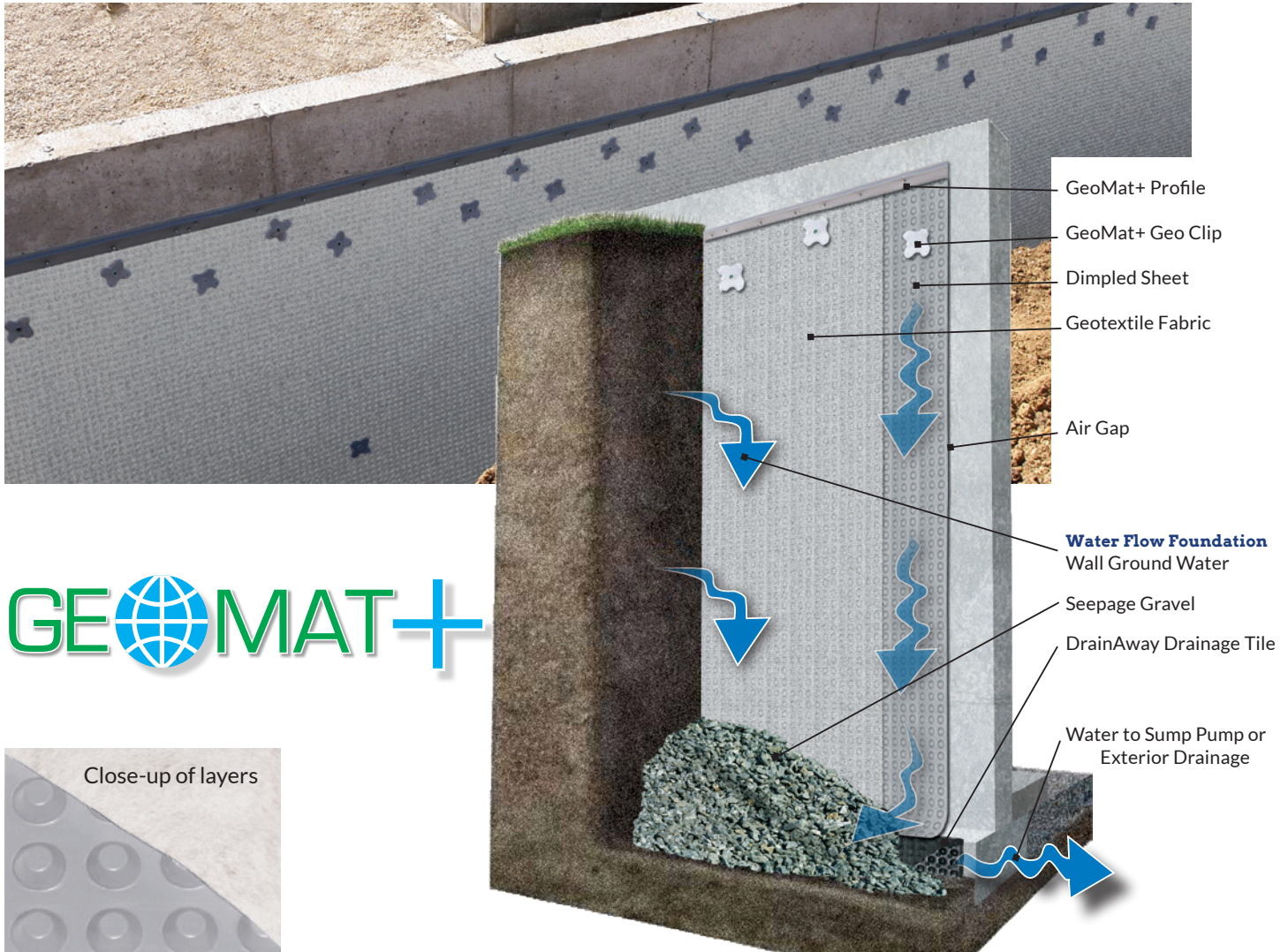


3-Way Foundation Protection:  
**Control. Impermeability. Drainage.**  
The “CID” Benefits.

Try the complete line of Mar-flex products.

Foundation Waterproofing | Waterproofing Membranes | Dampproofing Products | Concrete Repair  
Concrete Anchor Epoxies | Drainage Boards | Egress Window Wells | Standard Window Wells  
Sealers/Mastics | Control Joint Systems | Air Barrier Systems | Vortex Vents

# DRAINAGE SYSTEM - How It Works



## Geotextile Features\*

	Criteria	Method	Value
<b>MATERIAL</b>	ICC EG114		polypropylene
<b>WEIGHT</b>	ICC EG114	EN ISO 9864	100 g/m <sup>2</sup> ( 3 oz/yd <sup>2</sup> )
<b>THICKNESS</b>	ICC EG114	EN ISO 9863-1	0.6 mm (.023 in)
<b>TENSILE STRENGTH</b>	ICC EG114	EN ISO 10319	6/1348.8 (MD)/(CMD) kN/lb/f
<b>ELONGATION</b>	ICC EG114	EN ISO 10319	55%(MD)/60%(CMD)
<b>PUNCTURE RESISTANCE</b>	ICC EG114	EN ISO 12236	1000 N ( 224.8 lb/f)
<b>CONE DROP TEST</b>	ICC EG114	EN ISO 13433	33 mm/1.29 in
<b>WATER PERMEABILITY</b>	ICC EG114	EN ISO 11058	100 mm/s (3.93 in/s)
<b>OPENING SIZE</b>	ICC EG114	EN ISO 12956	95 micron
<b>FLOW RATE</b>	ICC EG114	ASTM D4991	145 g/m/ft <sup>2</sup>

## ADVANTAGES

- Resistance to hydrostatic pressure
- High dimples provide ample drainage capacity
- Protects foundation waterproofing membrane
- Resistant to saline solutions, alkalis and acids
- Easy installation
- LEED Certification



ICC APPROVED PRODUCT  
ESR-3062

\*complete features at Mar-flex.com

## CONTRACTOR BENEFITS

- Installation can begin within 24 hours after the forms are removed from poured concrete.
- No hazardous chemicals are necessary to install membrane.
- Can be **installed in any weather**.
- No expensive or special tools required.
- Certified training is available through Mar-flex, with a complete Technical Services Department for assistance.
- An average 1500 square foot foundation **takes only 2.5 hours** to install when installed according to our guidelines.
- Perfect complementary product to liquid waterproofing.
- Consistent product sizes and quality to ensure your installations are completed on time and within budget.
- Reduced incidents of water leaks due to “positive side” drainage, higher performance rating from clients.
- The Mar-flex GeoMat+ is supplied by a company that has 25 years of experience in the waterproofing business, has its roots in the North American market and is a respected name when it comes to foundation protection.

## BUILDER BENEFITS

- **Service callbacks are drastically reduced.**
- **Greener sites**, as the completed installation does not pollute or off-gas, maintaining a healthier home environment.
- Easy construction scheduling as Mar-flex GeoMat+ is the perfect complement to liquid-applied waterproofing.
- Warranties are enhanced with Mar-flex GeoMat+ since the expected service life of the product is greater than 50 years.
- Mar-flex GeoMat+ provides protection from construction activities for cases where liquid applied membranes are used in combination with Mar-flex GeoMat+, increasing builder confidence and client satisfaction.
- Better ground water control for protection of foundations allows property owners to see the long term advantage of using Mar-flex GeoMat+.
- Better performing buildings, **better builder ratings, increased profits, more satisfied clients.**
- Happy homeowners = better builder ratings, increased profits.

### GeoMat+ Spec Sheet\*

	Criteria	Test Method	Requirement	Result	Comment
<b>THICKNESS</b> (in)	ICC-ES AC114		.025fa <sup>†</sup> /.021da <sup>†</sup>	.025fa/.02da	Pass
<b>WEIGHT</b> (oz/ft <sup>2</sup> )(g/m <sup>2</sup> )	ICC-ES AC114		1.6 min/500	1.73/527.3	Pass
<b>DYNAMIC IMPACT</b>	ICC-ES AC114		Pass/Fail	Pass	-
<b>STATIC PUNCTURE</b>	ICC-ES AC114		Pass/Fail	Pass	-
<b>LOW TEMPERATURE FLEX</b>	ICC-ES AC114		Pass/Fail	Pass	-
<b>WATER VAPOR PERMEABILITY</b>	ICC-ES AC114	ASTM E96 (B)	0.239 max	0.173	Gr/hr/ft <sup>2</sup>
<b>TENSILE STRENGTH</b> (lb/in)	ICC-ES AC114		MD(45.6)/XD(45.6)	MD(47.7)/XD(51.8)	Pass
<b>ELONGATION</b> (%)	ICC-ES AC114		(MD)25/XD(25)	MD(27.5)/XD(39.8)	Pass
Water Immersion (Dimensional Change %)	ICC-ES AC114		1	0.0	Pass
(Weight Change %)	ICC-ES AC114		.10 max	0.0	Pass
(Tensile Strength - % of original)	ICC-ES AC114		MD(80)/XD(80)	MD(96)/XD(97)	Pass
(Elongation - % of original)	ICC-ES AC114		MD(70)/XD(70)	MD(97)/XD(74)	Pass
Heat Aging (Mechanical Properties)	ICC-ES AC114		Pass/Fail	Pass	-
Chemical Exposure (Ammonium Chloride)	ICC-ES AC114		Pass/Fail	Pass	-
<b>COMPRESSIVE STRENGTH</b> (psi/psf)	ICC-ES AC114		(14.5 min/2088 min)	(52.7/7590)	Pass
<b>WATER FLOW RATE</b>				18 gal/min/ft (223 L/min/m)	-
<b>PACKAGING</b>					4' x 50' roll or 8' x 50' roll
<b>SHIPPING DATA</b> (Rolls/Pallet)					9
<b>ROLL WEIGHT</b> – 4' (lb/kg) 8' (lb/kg)					(32/14.51) (62/28.12)

\*For detailed information, please contact Mar-flex Technical Services at 800-498-1411.

†Flat Area (fa), Dimpled Area (da)

Authorized Distributor: