



## ShockWave 1" or 2" Drainage and Insulation Board

### PRODUCT DESCRIPTION:

ShockWave 1" or 2" Drainage and Insulation Boards are made out of recycled products. Cross-link, closed cell Polyethylene-polyolefin foam products are reclaimed from the automotive industry and compressed into boards. It is then covered with a man-made non-woven fabric cover by heat process; no glues or resins are used.

ShockWave Boards are considered a GREEN product due to its recycled content and can be used toward LEEDS building credits.

### PURPOSE:

ShockWave Boards act as a drainage medium to channel ground moisture away from the structures foundation and into the buildings drain tile system.

It also protects the Marflex waterproofing membrane, especially during backfilling or other construction activity.

### ADVANTAGES:

- Combines high R-value, drainage and protection into one product
- Resists water absorption thus maintaining its R-value
- Protects foundation waterproofing
- Good drainage
- Inert, not effected by water or soil exposure
- Easy to handle
- Easy to install
- Can be used in any geographical area
- Chemical resistant

### LEED DATA:

Credit 4.1: Recycled Content, 10%

10% (post-consumer + 1/2 pre-consumer) = 1 Point

Credit 4.2: Recycled Content, 20%

20% (post-consumer + 1/2 pre-consumer) = 1 Point in addition to MR Credit 4.1

Shockwave is 40% Pre-consumer and 60% Post-consumer recycled content. The recycled material is created from the automotive manufacturing process. This waste is taken and ground down at another facility to be formed into the Shockwave boards.

### SPECIFICATIONS:

- Transmissivity (Flow Rate) - ASTM D-4716 – 1" = 50 gal/hr/lin.ft., 2" = 101.11 gal/hr/lin.ft.
- Permeability – ASTM D-2434 – 1" = 36 gal./min. or 2160/hr., 2" - 36 gal./min. or 2160/hr.
- Thermal Resistance (**R-Value**), (for 3 Layer Earth-Foam-Concrete) – ASTM C-518 - 1" = not less than 9, 2" –not less than 13.50
- Compressive Properties-ASTM D 1621 - 32.7 psi / 4708.8 psf

### PACKAGING:

1" x 3' x 4' - (40 pcs./skid); 2" x 3' x 4' - (20 pcs./skid)

### COVERAGE:

1" - 480 sq.ft./skid; 2" - 240 sq.ft./skid

### PREP/APPLICATION:

Apply one of the Marflex waterproofing membranes following the current installation instructions.

While the membrane is still tacky, starting at a corner with the filter fabric side facing out-ward, install the ShockWave horizontally over the sprayed sections of the wall.

The boards should be placed side by side, extending from the top of the footers to finished grade.

Apply uniform pressure to the board throughout the surface area, not just the edges and corners. Note: If boards are stacked, maintain a factory-equivalent edge at all seams to ensure proper fit and drainage channel alignment.

The use of fasteners, such as concrete nails, to secure the board to the walls to hold in place until backfilled, is optional.

If using the Mar-flex Geo Clips secure the ShockWave at the top of the boards, by placing a Geo Clip at each corner making sure that at least two prongs from the Geo Clip is placed in each board. When securing the ShockWave at the seams, place a Geo Clip in the middle of the boards making sure that there is one prong in each board.

Once the Geo Clips are in place, install them using a powder actuated mechanical fastener.

If the board overlaps the membrane once you have reached the grade line, a utility knife or similar tool can be used to cut the boards to the correct height.

### BACKFILLING/DRAINAGE:

Backfilling should begin no sooner than 24 hours after the installation of the board, but must be backfilled within 15 days.

#57 Gravel or equivalent must be no less than 2' high at the base of the foundation and 1' in depth away from the foundation walls.

Adequate interior and exterior foundation drainage at the base of the foundation walls or across any floors must be properly installed and working. Gutters and downspouts must be installed and functioning properly. Adequate drainage in landscaping beds adjacent to the foundation must be installed.

Final grade must not extend above the waterproofing system and must slope away from the foundation at a minimum of 1/2" per foot for the first 12' from the structure.

### CLEAN UP:

This is an inert product and can be placed in a landfill. Or if required comply with all federal, state and local laws and regulations.

### PRODUCT HANDLING/STORAGE:

- Maintain good housekeeping

### WARNING/DANGERS:

- Use safety glasses
- Protect from flame and other high heat sources

### CERTIFICATE of COMPLIANCE POSTING:

- A permanent certificate shall be posted on or immediately adjacent to the electrical distribution panel.
- The certificate shall be completed by the owner, builder or insulation installer.
- The certificate shall list at least the following information:  
The predominant R-values of product installed in or on ceilings or roofs, walls, foundation walls, slabs and any heating ducts that are outside the thermal envelope.

### Product Only Warranty:

We warrant the product to be of good quality and manufactured to meet published physical properties and quality control standards.

Except as specifically provided herein, Mar-flex makes no warranty, express, implied or oral including but not limited to any warranty or merchantability, fitness for a particular purpose, usage of trade, course of dealing or course of performance in connection with this agreement. In no event shall Mar-flex be liable on any such warranty with respect to the product. Mar-flex shall not be liable for incidental or consequential damages including, but not limited to damages of the structure, its replacement, contents or personal injury. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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

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