



MAXLIFE
INDUSTRIES
INNOVATING THE
BUILDING ENCLOSURE™

ArmorWall[®] BG

STRUCTURAL INSULATED SHEATHING

PRODUCT DESCRIPTION

ArmorWall BG is a below-grade factory waterproofed exterior wall sheathing with a UL Classified substrate that is a tested high strength fire resistant exterior insulated wall sheathing product that is designed to assist in insulating the slab edge and below-grade to above-grade transition that is often difficult to construct in the field. Combining the best traits of Magnesium Oxide (MgO) and urethane insulation allows ArmorWall to be unmatched within the marketplace.

PRODUCT ADVANTAGES

Mold & Mildew Resistant – No paper facing components exist within the product to promote the growth of mold or mildew as tested by ASTM G21.

Fusion Technology – MaxLife's patented fusion technology fuses all component materials together rather than laminating which allows for greater strength, no delamination in the field, and a longer lasting product within the building foundation. This capability also allows for many finish veneers to be mechanically attached directly to the exterior sheathing board itself and not requiring a fastener to fully penetrate the layer into the stud beyond, allowing less leakage potential and less thermal loss from fastener penetration as in traditional wall assemblies.

Below-Grade Waterproofing – ArmorWall BG utilizes a factory-applied elastomeric waterproofing membrane on the top, bottom, and exterior faces to allow the board to be installed horizontally in rapid succession.

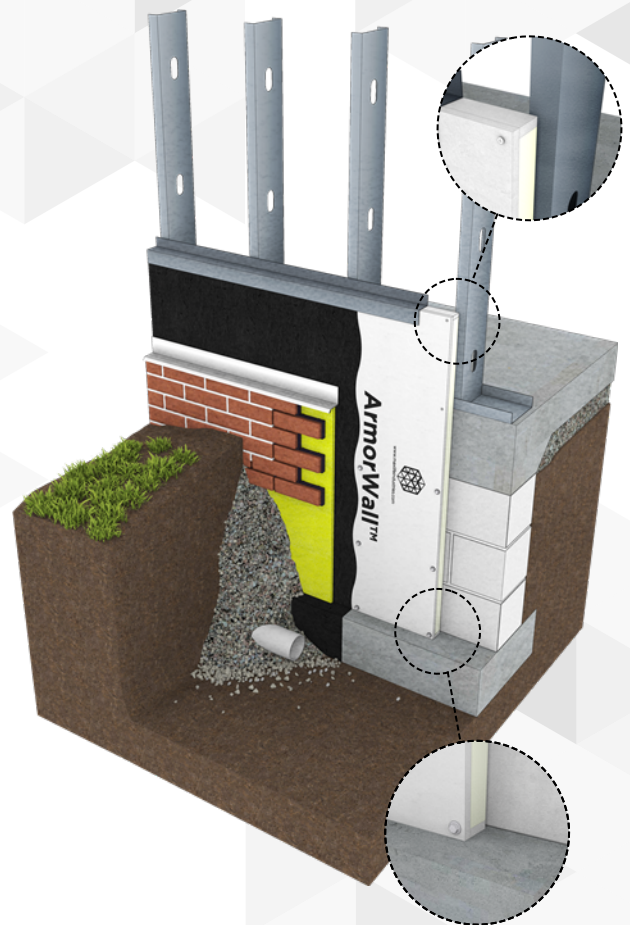
Multi-Component Reduces Labor – ArmorWall BG combines multiple control layers of a wall assembly including structural, thermal, air, fire, and moisture; into a one-step application. This one-step approach allows installation up to five times faster on the construction site saving time and money.

PRODUCT LIMITATIONS

- ArmorWall BG should be utilized at grade as the transitional element from above-grade ArmorWall or traditional assemblies to below-grade waterproofing.
- Do NOT use an impact drill to fasten cladding or attachments to the panel.
- Cover within 30 days.
- Zee flashing component must be utilized during installation in known areas for termites, verify with local code.
- Must use ArmorWall BG Trowel Grade Flashing and ArmorWall BG or ArmorWall BG Sealant.

HANDLING AND USE

ArmorWall BG can be cut and installed using standard job site hand tools. When being cut to size, avoid breathing dust and minimize contact with eyes. ArmorWall BG should be stored off the ground in original shipment condition until ready for installation. Avoid ground contact or continuous exposure to moisture and direct sunlight. Some skinning and direct coloration of the insulation edges is normal if exposed to UV light prior to installation; however, it does not affect the performance of the panel. Some cupping of the panel is expected during shipment and can be rectified during installation by beginning installation from the center of the panel and working outward per the fastener standard of the designed application.



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BOARD SIZING AND INSULATING FACTORS

Board Coverage	Total Board Thickness	Sheathing Thickness	Insulation Thickness	R-Value	Weight ¹	SKU#
48"x96" (32sqft/sheet)	2"	1/2"	1 1/2"	R10	92 lbs	ABG200096
48"x120" (40sqft/sheet)	2"	1/2"	1 1/2"	R10	115 lbs	ABG200120
48"x96" (32sqft/sheet)	2 3/4"	1/2"	2 1/4"	R15	96 lbs	ABG234096
48"x120" (40sqft/sheet)	2 3/4"	1/2"	2 1/4"	R15	120 lbs	ABG234120
48"x96" (32sqft/sheet)	3 3/4"	1/2"	3 1/4"	R21	103 lbs	ABG334096
48"x120" (40sqft/sheet)	3 3/4"	1/2"	3 1/4"	R21	129 lbs	ABG334120

¹ Average board weight may vary based upon environmental conditions.

AIR / WATER / FIRE / THERMAL / FASTENER PROPERTIES

Adhesion-in-Peel	Pass	ASTM C836 (ASTM C794 vertical)
Adhesion-in-Peel (after water immersion)	Pass	ASTM C836 (ASTM C794 vertical)
Low temp crack bridging	Pass	ASTM C836 (ASTM C1305)
Extensibility after heat aging	Pass	ASTM C836 (ASTM C1522)
Service Temperature, °F (°C)	-40 to 200 (-40 to 93)	
Mold and Mildew	no observed growth	ASTM C1338
Vapor Permeance	0.01 Perms (grains/hr in Hg ft ²)	ASTM E96 (Method B)
Thermal Resistance	6.53 per inch	ASTM C518
Fastener Withdrawal Capacity	388.3 lbs	ASTM D1037 ¹
Fastener Pull Through	505.2 lbs	ASTM D1037 ¹
Fastener Shear in Sheathing Only	585.5 lbs	ASTM D1037 ¹

¹ Average ultimate value provided.



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For specific inquiries regarding installation of ArmorWall please contact MaxLife Industries Customer Services.

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