

DuPont™ ArmorBoard™ Plus Fire-Rated (FR) Structural Sheathing Returns

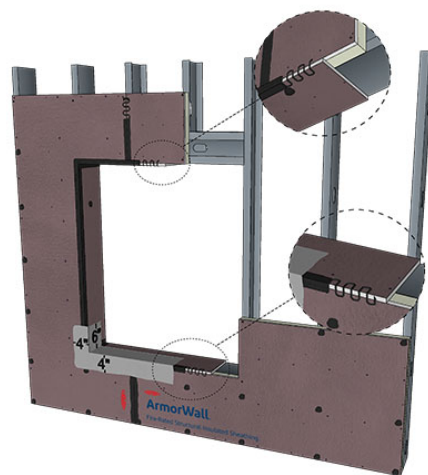
Precision Cut Returns for DuPont™ ArmorWall™ System

OVERVIEW

Description

For Professional Use Only. DuPont™ ArmorBoard™ Plus Fire-Rated (FR) Structural Sheathing Returns are a 1/2" Magnesium Oxide (MgO) board utilized in punched opening applications, or where field returns vary from standard provided sizes. ArmorBoard™ Plus FR Structural Sheathing Returns offer a rapid plane transition to the structural surface while providing fire, air, and water-resistant barrier surfacing.

ArmorBoard™ Plus FR Structural Sheathing Returns come coated with a factory-applied, high quality air and water-resistant barrier on the exterior sheathing layer.



Features and Benefits

- **Helps Save Labor, Time and Costs:** Precision cut in the factory to help reduce installation time around punched openings.
- **Air and Water-Resistant:** Passes ASTM E331 and ASTM E283 as part of a water and air barrier assembly, respectively.
- **Fire Resistant:** Can be used in fire-rated assemblies as required.

Standard Sizes

U.S. Stock Sizes for ArmorBoard™ Plus Fire-Rated (FR) Structural Sheathing Returns

Width	Length
8 in.	96 in.

TESTING AND CODE COMPLIANCE

DuPont™ ArmorBoard™ Plus Fire-Rated (FR) Structural Sheathing Returns, when used with an approved DuPont™ ArmorWall™ System, meets various ASTM Testing Standards. Applicable standards include:

TEST METHOD	TEST TITLE	PROPERTY	RESULTS
FIRE			
ASTM E84	Standard Test Method for Surface Burning Characteristics of Building Materials	Flame Spread/Smoke Developed Index	0 / 0
NFPA 285	Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components	Complies when designed and installed per ICC-ES ESR1442 or other approved evaluations	PASS
STRUCTURAL			
ASTM D1037	Standard Test Methods for Evaluating Properties of Wood-Base Fiber and Particle	Fastener Lateral Capacity (lbf)	245

ASTM D3500	Standard Test Methods for Structural Panels in Tension	Tensile Strength (psi)	425
ADHESION			
ASTM D2559	Standard Specification for Adhesives for Bonded Structural Wood Products for Use Under Exterior Exposure Conditions	Water Resistance (Section 10a)	PASS
WATER			
ASTM E96	Standard Test Methods for Gravimetric Determination of Water Vapor Transmission Rate of Materials	Method B - Vapor Permeable	8 perms
GENERAL			
ASTM D3501	Standard Test Methods for Wood-Based Structural Panels in Compression	Compressive Strength (psi) (ASTM D3501-05a)	1440
ASTM D1761	Standard Test Methods for Mechanical Fasteners in Wood and Wood-Based Materials	Fastener Pull Through (lbf)	300
ASTM C1185	Standard Test Methods for Sampling and Testing Non-Asbestos Fiber-Cement Flat Sheet, Roofing and Siding Shingles, and Clapboards	Flexural Strength (psi)	1800
ASTM D7032	Standard Specification for Establishing Performance Ratings for Wood-Plastic Composite and Plastic Lumber Deck Boards, Stair Treads, Guards, and Handrails, Section 4.6 Ultraviolet (UV) Resistance Test	Section 4.5.1 Temperature Effects	PASS

HANDLING

Warning

- **WARNING: For Professional Use Only** - Read and follow the entire Handling section and the Safety Data Sheets carefully before use. The information below is designed to protect the user and allow for safe use and handling of DuPont™ ArmorBoard™ Brand products. Follow all applicable federal, state, local and employer regulations.

Handling and Use

- **ArmorBoard™ Plus FR Structural Sheathing Returns** can be cut and installed using standard jobsite hand tools.
- When being cut to size, it is recommended to wear safety gloves, glasses, and a mask to avoid breathing dust and minimize contact with eyes.
- **ArmorBoard™ Plus FR Structural Sheathing Returns** 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 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.

Product Limitations

- Do NOT use an impact drill to fasten cladding or attachments to the panel.
- First fastener for the **ArmorBoard™ Plus FR Structural Sheathing Returns** must be within 2" of the edge with subsequent fasteners to be 12" O.C. staggered into framing of opening.
- Direct applied mortar/base/bond coat stucco applications require utilization of a slip sheet or drainage plane for capillary break.
- **ArmorBoard™ Plus FR Structural Sheathing Returns** can remain uncovered once installed on the wall assembly for a period not to exceed 30 days.
- **ArmorBoard™ Plus FR Structural Sheathing Returns** installed skyward facing greater than fifteen degrees from vertical shall be fully protected by waterproofing or roofing membrane within 6 days of installation.



For more information, visit us at
armorwall.dupont.com
or call us at 1-833-338-7668

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