

1. Manufacturer

Old Mill Building Products

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2. Product Description

Basic Use

Old Mill Panel+ EPS Foam Panels are engineered continuous insulation panels designed for use in the Old Mill Panel+ engineered wall system. These patented panels provide the insulation layer as well as the substrate for adhered masonry veneers in commercial and residential applications. Specifically designed with functional profiles to accommodate drainage, ventilation, structural integrity and alignment for the various finishes that can be employed with the system, these panels are an integral part of the patented Old Mill Panel+ Full Wall System.

Composition & Materials

Old Mill Panel+ EPS Foam Panels are made of superior closed cell, lightweight and resilient expanded polystyrene (EPS).

All Old Mill manufacturing is quality controlled to ensure product performance and uniformity.

Limitations & Disclaimers

- Do Not Use in Below Grade Installations
- Comply With Local Building Code Requirements
- Not for Use as a Roofing or Below Grade Insulation
- Do Not Use Solvent Based Cleaners or Expose to Solvents

Packaging

- 2' x 4' Panels
- 4' x 4' Panels
- Thicknesses from 1"-4"
- Custom shapes, thicknesses and sizes also available



Advantages

- Environmentally Friendly
- Stable, Long-Term R-value – No Thermal Drift
- Water Resistance – No Swelling
- Code Approvals
- Cost Efficient
- Insect and Mold Resistance
- Superior Drainage and Drying Potential
- Recyclable
- Freeze/Thaw Stable in Service
- Consistent Quality Control
- Zero Ozone Depletion Potential (ODP)
- Qualifies for a 5 or 15 Year System Warranty



3. Technical Data

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	RESULT
Compressive Strength (psi) at 10% Deformation ¹	D1621	15
ASTM Classification	C578	Type II
R-value per inch at 75°F Mean Temperature	C518	4.2
R-value per inch at 40°F Mean Temperature	C518	4.6
R-value per inch at 25°F Mean Temperature	C518	4.8
Flexural Strength (psi)	C203	35
Water Absorption (% by volume)	C272	
24 Hour Immersion		2.0
24 Hour Immersion & 24 Hours @ 50% RH		0.3
Water Vapor Permeance at 1" Thick (perms)	E96	3.5
Surface Burning - Flame Spread	E84	<25
Surface Burning - Smoke Developed	E84	<450
Maximum Use Temperature	Short Term (10-15 minutes) 180°F, Long Term 165°F	

Panel+ Insulation Board is elastic up to 1% deformation. A safety factor of 3 is recommended for long term loads to minimize long term deflection.

APPLICABLE STANDARDS

ASTM C203	ASTM C578	ASTM E96
ASTM C272	ASTM D1621	ICC ES AC12
ASTM C518	STM E84	NFPA 285

4. Installation

Adhesive - Fluid Applied

Solid substrates (brick, block, concrete, etc.): Begin by applying a 10 mil WFT coat of Old Mill Air & Water Barrier liquid. After a minimum of 20 minutes, double back with a second pass and apply an additional 10 mil coat WFT of Old Mill Air & Water Barrier liquid over entire wall. Allow curing for a minimum of 18 hours protected from precipitation and freezing conditions. Old Mill panel may be applied after 18 hours. Nail able substrates (OSB, plywood, gypsum): Begin by applying a 10 mil WFT coat of Old Mill Air & Water Barrier liquid. Immediately embed runs of Old Mill Poly laminate Reinforcing Fabric at all sheathing joints and outside corners by using a trowel and working from the center and moving outward, press the fabric into the wet weather barrier. Lap runs of mesh at least 2-1/2". After a minimum of 20 minutes, double back with a second pass and apply an additional 15 mil WFT coat of weather barrier over entire wall. Allow curing for 12-24 hours protected from precipitation and freezing conditions. Old Mill panel may be applied after 12-24 hours. Begin panel installation at an outside corner. Panels must overlap where they meet at outside corners at inside corners, position panel to accommodate a backer rod and sealant. Install pre-bricked panels as indicated on drawings being sure the appropriate panel configuration is installed to match the designation on the drawings. Do not install panels below grade. Use a utility knife to cut panels where necessary. Where panels abut wall openings, maintain a 1/4" clearance between the panels and the flashings. Offset successive vertical rows of panels at least 16."

Mechanically Fastened

Begin by attaching drainable building wrap to entire wall surface where Old Mill Panel+ will be used. Attach foam panel over building wrap through sheathing with Old Mill plastic 2" washers using screws at least 1" longer than the thickness of the panel and substrate. These fasteners should be installed every 16" horizontally and 8" vertically. More fasteners should be used around edges. Care must be taken to assure that the fastener is firmly seated on the foam panel and fastened so that the outer surface of the fastener is flush with the outer surface of the panel.

(Mechanically Fastened Continued)

Begin panel installation at an outside corner. Panels must overlap where they meet at outside corners at inside corners, position panel to accommodate a backer rod and sealant. Do not install panels below grade. Use a utility knife, hand saw or hot knife to cut panels where necessary. Where panels abut wall openings, maintain a 1/4" clearance between the panels and the flashings. Offset successive vertical rows of panels at least 16."

5. Availability & Cost

Old Mill Systems' products are available in all US markets and in select regions of Canada. Contact Old Mill Building Products for more information or go to www.oldmillbuildingproducts.com for more information.

6. Warranty

To view the Old Mill 5/15 Year Commercial System Warranty please visit www.oldmillbuildingproducts.com.

7. Maintenance

No maintenance required.

8. Technical Services

Technical assistance, including more detailed information, product literature, test results, project lists, samples, assistance in preparing project specifications and arrangements for job site inspection and consultation, is available by contacting Old Mill Building Products.

9. Filing Systems

Additional Information is available from the manufacturer upon request.