

FACADESXi

Xi-REINFORCING MESHES

DESCRIPTION AND USAGE

Xi-Reinforcing Meshes are glass fiber reinforcing meshes designed specifically for the FACADESXi Wall Systems. Weight and application options range from Standard to Ultra High impact resistant walls.

PACKAGING / COVERAGE

Mesh	Rolls/Carton	Dimensions	Coverage
Xi-Mesh	4 rolls	38 in wide x 150 ft (965 mm wide x 46 m)	475 ft ² (44.1 m ²)
Xi-Mesh	4 rolls	48 in wide x 150 ft (1219 mm wide x 23 m)	600 ft ² (55.7 m ²)
Xi-Mesh6	4 rolls	48 in wide x 150 ft (1219 mm wide x 46 m)	600 ft ² (56 m ²)
Xi-Mesh12	4 rolls	38 in wide x 75 ft (965 mm wide x 23 m)	238 ft ² (22.1 m ²)
BearMat15	4 rolls	38 in wide x 75 ft (965 mm wide x 23 m)	238 ft ² (22.1 m ²)
BearMat20	2 roll	48 in wide x 75 ft (965 mm wide x 23 m)	238 ft ² (22.1 m ²)
Detail Mesh	16 rolls	9 1/2 in wide x 150 ft (241 mm wide x 46 m)	118 ft ² (11 m ²)

Xi-Mesh/Mesh6/Mesh12 reinforcing meshes are lapped a minimum of 2 1/2 in (64 mm) at all edges. BearMat15 and BearMat20 are abutted tightly and a layer of Xi-Mesh or Xi-Mesh6 must be applied over the entire surface.

FEATURES / BENEFITS

- Durable
- Fully Tested
- Alkali resistant
- Impact resistant
- Dimensionally stable

FOR USE WITH ALL FACADESXi SYSTEMS

When Embedded in Xi-Base Coats, Reinforcing Meshes can be used for:

- FACADESXi Exterior Insulation Systems: For impact and crack resistance.
 - BearMat15 and BearMat 20 oz meshes for High and Ultra-High impact resistance, recommended for high traffic and impact areas.
 - * used with standard mesh
 - Xi-Mesh12 for Intermediate traffic, such as low traffic walkways and balconies
 - Xi-Mesh6 for protection from small impact, ladders, cables,
 - Detail Mesh for special shapes, reveals and backwrapping
- FACADESXi Plaster Systems: As a component of the FractureStop Layer, to resist and hide cracking of the stucco.
- FACADESXi Watershield-CB Systems: At cement board joints and over the entire cement board assembly for crack resistance.
- FACADESXi DAFS: For use over the entire sheathing for crack resistance.
- Foam Shapes: For coating foam shapes installed over Plaster, EIFS and CB systems.
- Skim Coat Reinforcement on clean Masonry/CMU/Brick: As the base coat thickness gage.

SURFACE PREPARATION / JOB CONDITION

Temperature must be 40°F (4°C), at time of installation and for 24 hours after installation. Substrates must be above 40°F (4°C), unpainted and clear of dirt, dust, chalk, mildew, algae, foreign materials, etc.

Rasp the surface of the insulation board smooth and replace any UV weathering or damage If applicable.

SHELF LIFE

2 years - stored off the ground, unopened, protected from moisture, extreme heat and direct sunlight



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CAUTIONS / LIMITATIONS

High and Ultra High impact resistance shall be as indicated in project drawings and as designated in the specifications. Insulation boards must be fully encapsulated on edges with base coat and reinforcing mesh.

Protect the base coat from rain, freezing, until cured at least 24 hours, longer in cold or humid climates before application of primer / finish coat.

Protect the wall assembly if needed during installation from water intrusion until the exterior wall is in place.

TESTING

Mesh Layer	ASTM Impact Level
Xi-Mesh	Standard
Xi-Mesh6	Standard
Xi-Mesh12	Medium
Xi-Mesh12 & Xi-Mesh	Ultra-High
BearMat15 & Xi-Mesh	Ultra-High
BearMat20 & Xi-Mesh	Ultra-High

IMPACT RESISTANCE

ASTM E2486 LEVELS (EIMA impact standard 101.86)
Standard Impact Resistance: 25–49 inch-lbs (2.8–5.6 J)
Medium Impact Resistance: 50–89 inch-lbs (5.7–10.1 J)
High Impact Resistance: 90–150 inch-lbs (10.2–17.0 J)
Ultra-High Impact Resistance: >150 inch-lbs (> 17.0 J)

CONTACT FACADESXi TECHNICAL FOR SPECIFIC INSTRUCTIONS.

APPLICATION

See system specifications for specific assembly installation instructions.

EMBEDDING REINFORCING MESH

Uniformly cover the entire foam board surface with base coat, approximately $\frac{1}{16}$ "– $\frac{1}{8}$ " thick. With the flat edge of a stainless steel trowel, embed reinforcing mesh into the base coat. Start from the center, working to the edges, wrapping it around the edges and system terminations, extending as far onto the structural element as possible. Use the mesh as a screed to gauge base coat thickness. The mesh-reinforced surface should be flat and smooth with no wrinkles. A damp, NOT WET, brush may be used on fresh or uncured base coat to maintain sharp edges of grooves or for smoothing trowel marks. Mesh color must not be visible.

BEARMAT15/BEARMAT 20 HIGH AND ULTRA HIGH REINFORCING MESH

Uniformly cover the entire foam board surface with the base coat, approximately $\frac{1}{8}$ " thick. With the flat edge of a stainless steel trowel, embed BearMat into the base coat, from the center to the edges. Butt ends of pieces tightly – DO NOT OVERLAP. Allow to cure overnight (longer in cold/humid climates) and proceed with Standard Reinforcing mesh embedment. Edges of Standard mesh must be offset from BearMat edges by a minimum of 8 Inches.

SKIM COAT

Uniformly cover the entire surface with the base coat, approximately $\frac{1}{16}$ "– $\frac{1}{8}$ " thick and embed mesh per application above. Reinforcing mesh on CMU, brick is strictly for gaging the base coat thickness and will not prevent grout/masonry cracks from appearing in the base coat. CMU/brick walls may require multiple passes to cover grout joints.

BACKWRAPPING

Required at EIFS terminations not utilizing approved accessories; foundations, sidewalks, openings, penetrations, expansion joints, etc. Using staples or adhesive, install Xi-Detail Mesh or strips of standard mesh onto the substrate approximately 4" up the wall allow remaining mesh to hang down until the insulation boards are adhered. Wrap the remaining mesh around the boards and onto the face of the board a minimum of 2- $\frac{1}{2}$ inches (64 mm). The EPS thickness should be considered when selecting mesh size, such that the Mesh extends 4 inches on the back and 2- $\frac{1}{2}$ in minimum onto the face of the insulation board.

With Drainage Terminations follow the EIFS system detail.

CORNERS (INSIDE, OUTSIDE, WINDOWS, DOORS)

Corners must have two layers of mesh, either 2 layers of standard mesh with no overlaps within 8" of the corner or Xi-CornerMesh, covered with 1 layer of standard mesh when covering the entire wall.

Meshes and Mats can be installed either vertically or horizontally.

