Master Wall Inc.®
Building a Culture of Excellence

PRODUCT DATA

GPS INSULATION BOARD

Expanded polystyrene insulation board enhanced with graphite (GPS) for use with Master Wall CIFS®, EIFS and Cemplaster Fiberstucco systems. GPS Insulation Board is the next generation of insulation board that is manufactured using graphite polystyrene (GPS) that gives maximum efficiency, cost-effectiveness and sustainability. The graphite reflects radiant heat energy like a mirror, increasing the material's resistance to the flow of heat or R-value. Most polymer-based foams exhibit a greater ability to slow the movement of heat as the temperature decreases.

FEATURES & BENEFITS

- Continuous Insulation for Wall Assemblies
- Improves radiant heat resistance
- Reduces air movement in wall
- Controls dew point / moisture condensation in wall
- Long lasting, strong stable
- Cost effective
- GREENGUARD Gold Certified
- LEED® Rated
- Increased Compressive Strength—10 psi per ASTM C578

Packaging/Storage

144 board foot bundles* wrapped in plastic. Store on jobsite protected from the elements

Board Thickness & Size

Typical Maximum 4″ (102 mm)
Minimum 3/4″ (19.1 mm)
Drainage Board 1.5” (38.2 mm)+

Board width, max.: 24″ (610 mm)
Board length, max.: 48″ (1219 mm)

Coverage by Typical Thickness

3/4” (19.2 mm):
24 pcs, 192 sf (17.84 m^2)

1” (25.2 mm):
18 pcs, 144 sf (13.38 m^2)

1-1/2” (38.2 mm):
12 pcs, 96 sf (8.92 m^2)

2” (50.8 mm):
9 pcs, 72 sf (6.69 m^2)

3” (76.2 mm):
6 pcs, 48 sf (4.46 m^2)

4” (101.6 mm):
5 pcs, 40 sf (3.72 m^2)

*Varies by manufacturer facility

Application Procedure

Job Conditions - Follow directions on adhesive data sheets. Mechanical attachment of insulation boards may be performed at lower temperatures over a dry surface.

Temporary Protection – Provide temporary and permanent protection to prevent water entry behind the system.

Substrate Preparation – Applications must be to an approved substrate with a maximum variation tolerance of 1/4" in 10'-0" (6.4 mm in 3.05 m). Contact Master Wall for approved substrates and recommended attachment methods.

Application

The Insulation Board can be easily cut using handsaws, power saws, sharp knives, or thermal cutting tools. Rasping of the Insulation Board is completed with 12 grit sandpaper, manually or with air or electric rasping machines.

Follow data sheet recommendations for adhering insulation board to approved substrates. For adhesive attachment using Neopor® provide additional attachment as noted on the Neopor data sheet while the adhesive is still wet. For full mechanical attachment, fasten the Insulation Board to the approved substrate using Wind-Lock Wind-Devil 2 retainers. For other manufactured GPS, follow their recommendations and consult Master Wall® for specifics. See Master Wall System Details for more information. Fastening patterns shall be determined by the requirements of the geographical conditions of the area, local code requirements, and the performance of the fasteners, retainers and their test results in conjunction with the specified substrate and the thickness of insulation board specified for use. Minimum 1" (25.2 mm) thickness for mechanically attached systems.

Install insulation board on the wall according to specification requirements. For further information and details, see the Master Wall System Application Instructions.

Cool Weather Precautions

Adhesive applications during cooler weather conditions require additional precautions as the insulation board may curl prior to adhesive set. During cooler weather the following procedures will need to be used:

- *Adhere insulation board with Quick Set MBB or recommended DuPont® adhesive.*
- ***Mechanically fasten board with support fasteners as noted on the Neopor data sheet while the adhesive is still wet.***

Limitations

The minimum required thickness for insulation board in the Master Wall Aggre-flex EIF System and Rollershield Drainage CIFS® is ¾" (19.2 mm) at any location on the wall.

Do not cover GPS insulation either stored (factory wrapped or unwrapped), or partially installed, with dark colored (non-white), or clear (non-opaque) coverings and leave it exposed to the sun. Examples of such coverings include but are not limited to filter fabrics, membranes, temporary tarps, clear polyethylene, etc. If improperly covered, and exposed to the right combination of sun, time and temperature, GPS insulation deformation damage may occur rapidly.

Insulation board shall not be used in interior applications.

Residential applications require a secondary water barrier with the option of flat insulation board with profiled water barriers or drainage insulation board. See Aggre-flex Drainage Details for insulation board construction.

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