Master Wall Inc.®
Building a Culture of Excellence

PRODUCT DATA

OWENS CORNING FOAMULAR™ NGX® 250 XPS INSULATION BOARD — TYPE IV

Owens Corning Foamular™ NGX® Insulation Board is a high performance insulation material that is used to wrap the entire building to keep interior temperatures more consistent. It helps to reduce thermal bridging at framing members and is easy to cut and place. It may be custom formed into various decorative shapes.

FEATURES & BENEFITS

- Continuous Insulation for Wall Assemblies
- Easily cut into shapes for decorative trim
- Shaved Surfaces provide good bond for Master Wall® Base Coats & Adhesives
- Reduces air movement in wall
- Reduces life cycle CO_2 emissions
- Controls dew point / moisture condensation in wall
- Long lasting, strong, stable
- HCFC Free
- 20% Pre-consumer Recycled Content

TECHNICAL DATA

- Meets or Exceeds ASTM C578
- ASTM C578, Type IV
- Minimum Density: 1.3 pcf
- R-Value (U-Value) at 75°F (9°C): 5.0 (0.20) per inch
- Compressive strength, min., PSI (kPa): 25.0 (172)
- Flexural Strength, min., PSI (kPa) : 50 (345)
- Water Vapor Permeance of 1.00 in (25.2 mm) thickness, max., perm (ng/Pa.s.m^2): 1.5 (86)
- Water absorption by total immersion, max., volume, % : 0.3
- Dimensional stability (change in dimensions), max., %: 2.0
- Oxygen index, min., volume, %: 24.0
- Flame spread, max.: 25.0
- Smoke development, max. 450

Availability

Owens Corning Foamular™ NGX® Extruded Polystyrene Foam Insulation is available through select distributors. ***For Master Wall EIFS and CIFS® applications where adhesives will be used the board must be planed prior to application.***

Packaging: 144 board foot bundles*

Board thickness:
Maximum Recommended 2″ (101 mm)
Minimum 3/4″ (19.1 mm)
Drainage Board 1.5” (38.2 mm)+

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

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 mechanical attachment, fasten the Insulation Board to the approved substrate using Wind-Lock Wind-Devil 2 or other approved plastic plates. 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.

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.

Due to density, rasping the insulation will be difficult to very difficult compared to Type I EPS. Power rasping equipment may be necessary.

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.
Product description information and basic uses etc.

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