FOAMULAR® C-300
Extruded Polystyrene (XPS)
Rigid Foam Board Insulation

PRODUCT FEATURES
Description
Extruded polystyrene (XPS) rigid insulation board with thermal and moisture resistive properties.

Basic Uses/Related Uses
Continuous insulation for use on residential and commercial above and below grade wall assemblies and suitable under floor slabs that do not exceed 30 psi.

Selection Criteria
• Thermal resistance of R5 per inch
• Moisture resistant (hydrophobic), long term durability
• Compatible with common liquid or sheet applied air/moisture barriers

Sustainability Criteria
• Recycled content of 20%, pre-consumer (SCS Global Services)
• UL GREENGUARD Gold Certification
• Product specific Type 4 UL Environmental Product Declaration and Transparency Brief
• Silver Material Health Certification (Cradle to Cradle Products Innovation Institute)
• Contributes to credits in green building programs such as LEED® and Green Globes. For further information see documents: LEED® v4 for Building Design and Construction and Owens Corning Impact Study - Leadership in Energy and Environmental Design (LEED® v4).

Applicable Standards
- CAN/ULC-S701 Standard for Thermal Insulation, Polystyrene Boards
- CAN/ULC-S102.2 Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials and Assemblies
- ASTM C203 Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
- ASTM E96 Test Methods for Water Vapour Transmission of Materials

Performance Criteria
Compliance: Evaluation Listing No. 13430-L CCMC Type 4 CAN/ULC-S701

Physical Properties:
- Compressive Strength: 30 psi (210 kPa)
- Compressive Modulus: 1350 psi (9308 kPa)
- Flexural Strength: 75 psi (517 kPa)
- Dimensional Stability, Maximum, % linear change: 1.5
- Linear Coefficient of Thermal Expansion: 3.5 x 10^-5 in./in./°F (6.3 x 10^-5 mm/mm/°C)
- R5 ft^2 hr°F/BTU per inch (RSI 0.88 m^2°C/W per 25 mm) ASTM C518 or C177

Moisture:
- Water Absorption, (max. % by volume): 0.70
- Water Vapour Permeance: 0.87 Perm (50 ng/Pa.S.m²)
- Water Capillarity: None
- Water Affinity: Hydrophobic
- Limiting Oxygen Index, (min.): 24
- ASTM D2842
- ASTM E96
- ASTM D2863

Fire:
- Combustible
- Max. Service Temp. 165 °F (74 °C)
- CAN/ULC-S114

10% deformation or yield, whichever occurs first

Delivery and Storage
Deliver products in their original packages, and store in enclosed shelter. Packaging is not UV resistant. Shelter unused packages from the elements.
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Limitations
- Exposure to exterior conditions during normal construction cycles is permitted. During that time some fading of color may begin due to UV exposure, and, if exposed for extended periods of time, some degradation or “dusting” of the polystyrene surface may begin. It is best if the product is covered within 60 days to minimize degradation. Once covered, the deterioration stops, and damage is limited to the thin top surface layers of cells. Cells below are generally unharmed.
- This product is combustible. A protective barrier or thermal barrier is required to separate this product from interior living or conditioned spaces as specified in the appropriate building code.
- FOAMULAR® XPS insulation limited lifetime warranty maintains 90% of its thermal resistance for the lifetime of the building and covers all CAN/ULC- S701.
- Prior to use of adhesives, sealants or other similar products with polystyrene boards, verify their compatibility with adhesive manufacturers.

Safety
This product is combustible and may constitute a fire risk if not used or installed properly. Although it contains a fire-suppressing agent, the product will ignite if exposed to a sufficiently intense flame. Do not expose to open flames or any other ignition source during transport, handling, storage or use. For additional information refer to Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

PRODUCT PLACEMENT
Installation
Carefully adjust insulation boards to obtain tight joints between each board and around electrical service boxes, piping, air ducts and framing passing through; where two layers are required it is preferable to offset all joints. Consult an Owens Corning Canada Technical representative for appropriate fastener and adhesive selections.

Technical Services Available
For Canadian Technical inquiries please contact local representative. See Technical territory map via www.specowenscorning.ca/contacttech.

Sizes

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<tr>
<th>Thickness</th>
<th>Widths</th>
<th>Lengths</th>
<th>Edges</th>
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<tbody>
<tr>
<td>25 mm - 102 mm</td>
<td>610 mm (24&quot;)</td>
<td>2438 mm (96&quot;)</td>
<td>Square or Ship Lapped</td>
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<tr>
<td>(1&quot; - 4&quot;) in 12.7 mm (1/2&quot;) increments</td>
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FOAMULAR® C-300 is shipped in units containing four individually shrink-wrapped packages.

*Metric sizes for CMU also available

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