



FOAMULAR® CodeBord® Air Barrier System



PRODUCT FEATURES

Description

Extruded polystyrene (XPS) rigid insulation board combined in a system with acrylic sheathing tape (JointSealR™), flashing tape (FlashSealR®), and polyethylene foam sill gasket (ProPINK® ComfortSealR™) to form and function as exterior air barrier system.

Basic Uses/Related Uses

Exterior air barrier system for residential above grade wall assemblies when stud spacing does not exceed 600 mm (24 in.) o.c. and maximum building height of 12 m (39 ft 4 in.).

Selection Criteria

- XPS foam board insulation function as: thermal, air, and weather control layers
- Exterior air barrier system
- Thermal resistance of R5 per inch[†]
- Moisture resistant (hydrophobic), long term durability
- Reduces thermal bridging
- Warms wall cavity, reduces risk of condensation

Sustainability Criteria

- Recycled content of 20%, pre-consumer (SCS Global Services)
- UL GREENGUARD Gold Certification
- Product specific Type 3 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 C177	Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate
ASTM C203	Standard Test Method for Breaking Load and Flexural Properties of Block-Type Thermal Insulation
ASTM C518	Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus
ASTM E228	Standard Test Method for Linear Thermal Expansion of Solid Materials with a Push-rod Dilatometer
ASTM D1621	Standard Test Method for Compressive Properties of Rigid Cellular Plastics
ASTM D2126	Standard Test Method for Response of Rigid Cellular Plastics to Thermal and Humid Aging
ASTM D2842	Standard Test Method for Water Absorption of Rigid Cellular Plastics
ASTM E96	Test Methods for Water Vapour Transmission of Materials

Performance Criteria

Compliance:	Evaluation Listing No. 12935-R Type 3	CCMC CAN/ULC-S701
Physical Properties:	Compressive Strength ¹ : 20 psi (140 kPa) Compressive Modulus: 1000 psi (6895 kPa) Flexural Strength: 70 psi (483 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)	ASTM D1621 ASTM D1621 ASTM C203 ASTM D2126 ASTM E228
Thermal:	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: 0.90 Perm (52 ng/Pa.s.m²) Water Capillarity: None Water Affinity: Hydrophobic Limiting Oxygen Index, min.: 24	ASTM D2842 ASTM E96 - ASTM D2863
Fire:	Combustible Flame spread 90; smoke developed >350 Max. Service Temp. 74 °C (165 °F)	CAN/ULC-S114 CAN/ULC-S102.2 -
Air:	Air Permeability at 75 Pa (L/s.m ²): Negligible (0.001) ²	-

¹10% deformation or yield, whichever occurs first

²Air permeance rate of FOAMULAR® CodeBord® tested by ORTECH. Test results were published in report 970J53-M0071-A April 23, 1998.

[†]The LTTR performance for Owens Corning FOAMULAR® insulation products per CAN/ULC S701-17 are as follows: Type 3 products: Minimum LTTR of RSI 1.62 at 50 mm thickness & Type 4 products: minimum LTTR of RSI 1.66 at 50 mm thickness. Please consult local Owens Corning Technical Representative.





FOAMULAR® CodeBord® Air Barrier System

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.

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.

Sizes

Thickness	Widths	Lengths	Edges
FOAMULAR® C-200 XPS[^]			
25 mm - 102 mm (1" - 4") in 12.7 mm (1/2") increments	610 mm (24")	2438 mm (96")	Square or Ship Lapped
FOAMULAR® CodeBord® XPS			
20 mm - 89 mm (0.8" - 3.5")	610 mm & 1220 mm (24" & 48")	2438 mm, 2743 mm, 3048 mm (96", 108", 120")	Square or Ship Lapped

FOAMULAR® C-200 is shipped in units containing four individually shrink-wrapped packages and FOAMULAR® CodeBord® is shipped in units containing three individually shrink-wrapped packages.

[^]Metric sizes for CMU also available

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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

For installation instructions on the FOAMULAR® CodeBord® Air Barrier System see publication no. 500637 or visit www.owenscorning.ca/cabs for videos and further information.

Technical Services Available

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



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