



FOAMULAR® CEL-DRAIN®

EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION

Owens Corning® FOAMULAR® Cel-Drain® Extruded Polystyrene (XPS) Insulation is closed-cell, moisture-resistant rigid foam board used as continuous exterior insulation for concrete or concrete block foundation walls with manufactured drainage channels to direct moisture to weeping tile systems.

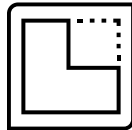
Product Features



**SUPERIOR
MOISTURE
RESISTANCE**



DURABLE



**EASY TO CUT,
FORM & FIT**

Basic Uses/Related Uses

- Continuous exterior insulation for concrete or concrete block foundation walls with manufactured drainage channels to direct moisture to weeping tile systems.

Selection Criteria

- Certified drainage layer as per building Code
- Thermal resistance of R5 per inch
- Moisture resistant (hydrophobic), long term durability
- Saw, cut or score to size

Performance Criteria

COMPLIANCE:	Evaluation Listing No. 13387-R Type 3	CCMC CAN/ULC-S701
PHYSICAL PROPERTIES:	Compressive Strength ¹ : 20 psi (140 kPa) Compressive Modulus: 1000 psi (6895 kPa) Flexural Strength ² : 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
THERMAL³:	Thermal Resistance, R-Value, hr·ft ² ·°F/Btu (RSI, °C·m ² /W) 5.0 (0.88) @ 24°C (75°F) mean temperature 5.4 (0.95) @ 4.4°C (40°F) mean temperature 5.6 (0.99) @ -3.9°C (25°F) mean temperature	ASTM C518 or C177
LTTR⁴:	Long-Term Thermal Resistance, LTTR-Value, minimum R5 hr·ft ² ·°F/Btu (RSI 0.88, °C·m²/W) @ 24°C (75°F) mean temperature	CAN/ULC-S770-15
MOISTURE:	Water Absorption, (max. % by volume): 0.70 Water Vapour Permeance: > 0.52 Perm (30 ng/Pa.s.m²) and < 1.05 Perm (60 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 -

1. Values at yield or 10% deflection, whichever occurs first.

2. Value at yield or 5%, whichever occurs first.

3. The R-value for FOAMULAR® XPS Insulation is provided from testing at mean temperatures of: -4°C (25°F), 4.4°C (40°F), and 24°C (75°F) and aging techniques of 180-day real time aged (as mandated by ASTM C578) and accelerated aging "Long-Term Thermal Resistance" (LTTR) per CAN/ULC S770-03.

4. The LTTR performance for Owens Corning® FOAMULAR® insulation products per CAN/ULC S701 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.

Technical Information

- The drainage surface with the 6 mm (1/4") x 19 mm (3/4") grooves is installed directly against the damp-proofed face of the foundation wall with the drainage grooves in the vertical position.
- Deliver products in their original packages, and store in enclosed shelter. Packaging is not UV resistant. Shelter unused packages from the elements.
- 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.
- In soils that may contain hydrocarbons and other petroleum derivatives, and all other products that may cause corrosion and deterioration of the polystyrene boards. Consult soils investigation reports and an Owens Corning regional technical support representative.
- Prior to use of adhesives, sealants or other similar products with polystyrene boards, verify their compatibility with adhesive manufacturers.
- 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. 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.
- Refer to NRC Evaluation Report CCMC 13387-R for complete installation instructions. Consult an Owens Corning Canada Technical representative for appropriate fastener and adhesive selections.

Sizes

THICKNESS	WIDTHS	LENGTHS	EDGES
FOAMULAR® CEL-DRAIN® XPS			
76 mm, 89 mm, 102 mm (3", 3.5", 4")	610 mm (24")	2438 mm (96")	Ship Lapped

Other sizes available upon request.
Grooved drainage channels measure 6 mm (1/4") depth x 19 mm (3/4") wide x 50 mm (2") o.c. spacing.

FOAMULAR® Cel-Drain® is shipped in units containing four individually shrink-wrapped packages.

Certifications and Sustainable Features

- Certified by SCS Global Services to contain a minimum of 20% recycled content pre-consumer
- GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg
- Product specific Type 3 UL Environmental Product Declaration (EPD) and Transparency Brief certified by UL Environment
- 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)

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at www.owenscorning.ca or www.owenscorninglibrary.ca.

FOAMULAR® is manufactured with a polystyrene resin and blend of HFC blowing agents that have a global warming potential (100 year) of less than 750.

Disclaimer of Liability

Technical information contained herein is furnished without charge or obligation and is given and accepted at recipient's sole risk. Because conditions of use may vary and are beyond our control, Owens Corning makes no representation about and is not responsible or liable for the accuracy or reliability of data associated with particular uses of any product described herein. SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers. For more information, visit www.SCSglobalservices.com.

LEED® is a registered trademark of the U.S. Green Building Council.

Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via <http://sds.owenscorning.com>.

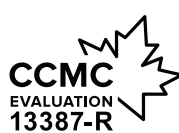
Limited Warranty

FOAMULAR® XPS insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all CAN/ULC-S701 properties. See FOAMULAR® Extruded Polystyrene Insulation Lifetime Limited Warranty for complete details, limitations, and requirements.

Technical Services Available

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

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OWENS CORNING CANADA LP
3450 MCNICOLL AVENUE
SCARBOROUGH, ONTARIO M1V 1Z5

1-800-GET-PINK®
www.owenscorning.ca

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