



FOAMULAR® & FOAMULAR® NGX® PROJECT WALL PANELS

EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION

Owens Corning® FOAMULAR® & FOAMULAR® NGX® Project Wall Panels are extruded polystyrene (XPS) boards designed to fit in 16" on center or 24" on center wood stud cavities providing an R-7.5. They are great for insulating unfinished basements and garage walls (must be covered by a 15 minute thermal barrier like gypsum drywall). The Owens Corning patented Hydrovac® process technology makes the unique closed-cell structure of FOAMULAR® & FOAMULAR® NGX® XPS highly resistant to moisture, strong, easy to cut and shape, and it remains dimensionally stable over time.

FOAMULAR® NGX® Project Panels contain the additional benefit of being manufactured with a blowing agent formulation that delivers a greater than 80% reduction to Global Warming Potential (100 years), including the complete elimination of HFC 134a¹.

1 Compared to FOAMULAR(R) Project Panels blowing agent formulation.

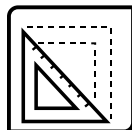
Features



SUPERIOR MOISTURE RESISTANCE



DURABLE



PRECUT TO FIT

Applications

- Basement and Garage Walls (Must be covered by a thermal barrier, such as gypsum drywall or equivalent)
- Crawl Spaces (May need to be covered by a thermal barrier. Evaluation Report ER8811-01 provides details for this requirement)
- Sheds
- Finished Dog/Pet Houses

Standards, Codes Compliance

- Meets ASTM C578 Type X
- UL Classification Certificate U-197
- Code Evaluation Report UL ER8811-01
- ASTM E119 Fire Resistance Rated Wall Assemblies³
- Meets California Quality Standards; HUD UM #71a

3 Visit www.owenscorning.com for more details.

Physical Properties²

PROPERTY	TEST METHOD ³	VALUE	
Thermal Resistance ⁴ , R-Value, hr·ft ² · F/Btu (RSI, C·m ² /W) @ 75 F (24 C) mean temperature	ASTM C518	5.0 (0.88)	
		@ 40°F (4.4°C) mean temperature	5.4 (0.95)
		@ 25°F (-3.9°C) mean temperature	5.6 (0.99)
Long-Term Thermal Resistance, LTTR-Value ⁴ , minimum hr·ft ² · F/Btu (RSI, C·m ² /W) @ 75°F (24°C) mean temperature	CAN/ ULC S770-03	5.0 (0.88)	
Compressive Strength ⁵ , minimum psi (kPa)	ASTM D1621	15 (104)	
Flexural Strength ⁶ , minimum psi (kPa)	ASTM C203	40 (276)	
Water Absorption ⁷ , maximum % by volume	ASTM C272	0.3	
Water Vapor Permeance ⁸ , maximum perm (ng/Pa·s·m ²)	ASTM E96	1.5 (86)	
Dimensional Stability, maximum % linear change	ASTM D2126	2.0	
Flame Spread ^{9,10}	ASTM E84	10	
Smoke Developed ^{9,10}	ASTM E84	175	
Oxygen Index ⁹ , minimum % by volume	ASTM D2863	24	
Service Temperature, maximum °F (°C)	-	165 (74)	
Linear Coefficient of Thermal Expansion, in/in/°F (m/m/°C)	ASTM E228	3.5 x 10 ⁻⁵ (6.3 x 10 ⁻⁵)	

2 Properties shown are representative values for 1" thick material, unless otherwise specified.

3 Modified as required to meet ASTM C578.

4 R means the resistance to heat flow; the higher the value, the greater the insulation power. This insulation must be installed properly to get the marked R-value. Follow the manufacturer's instructions carefully. If a manufacturer's fact sheet is not provided with the material shipment, request this and review it carefully. R-values vary, depending on many factors, including the mean temperature at which the test is conducted and the age of the sample at the time of testing. The U.S. FTC requires the R-value of home insulation to be measured at 75°F mean temperature. R-value claims should always be compared at the same mean temperature. Because rigid foam plastic insulation products are not aged in accordance with the same standards, it is useful to publish comparison R-value data. The R-value for FOAMULAR® XPS insulation is provided from testing at three mean temperatures, 25°F, 40°F, and 75°F, and from two aging (conditioning) techniques, 180-day real-time aged (as mandated by ASTM C578) and a method of accelerated aging, sometimes called "Long-Term Thermal Resistance" (LTTR) per CAN/ULC S770-03.

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

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

7 Data ranges from 0.00 to value shown due to the level of precision of the test method.

8 Water vapor permeance decreases as thickness increases.

9 These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.

10 Data from Underwriters Laboratories, Inc.® classified. See Classification Certificate U-197.

Technical Information

- FOAMULAR® & FOAMULAR® NGX® Project Panels Extruded Polystyrene XPS Rigid Foam insulation is a non-structural material.
- FOAMULAR® & FOAMULAR® NGX® Project Panels XPS insulation can be left exposed to sunlight (UV) for up to 60 days. During that time, some degradation or “dusting” of the polystyrene surface may begin. Once covered, the deterioration stops.
- FOAMULAR® & FOAMULAR® NGX® Project Panels Extruded Polystyrene XPS Rigid Foam insulation has a maximum service temperature of 165°F.
- Do not cover FOAMULAR® & FOAMULAR® NGX® XPS Project Panel insulation either stored (factory-wrapped or unwrapped), or partially installed, with dark-colored (non-white) covering and leave it exposed to the sun. See Owens Corning publication number 10015704, “Heat Buildup Due to Solar Exposure” for more information.
- This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For additional information, contact Owens Corning World Headquarters at 1-800-GET-PINK®.
- All construction should be evaluated for the necessity to provide vapor retarders. See current ASHRAE Handbook of Fundamentals.

Dimensions

- 1.5" x 14.25" x 48"
- 1.5" x 22.25" x 48"

Certifications and Sustainable Features

- Certified by SCS Global Services to contain an average 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.
- Environmental Product Declaration (EPD) has been certified by UL Environment.
- Utilizing FOAMULAR® XPS insulation can help builders achieve green building certifications, including the U.S. Green Building Council’s Leadership in Energy and Environmental Design (LEED®) certification.



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.com.

FOAMULAR® and FOAMULAR® NGX® XPS insulation use blowing agents with zero ozone depletion potential.

Detailed environmental information on the lifecycle of this product can be found in product’s Environmental Product Declaration:

- [“FOAMULAR® XPS Insulation Environmental Product Declaration”](#)
- [“FOAMULAR® NGX® XPS Insulation Environmental Product Declaration”](#)

Limited Warranty

FOAMULAR® & FOAMULAR® NGX® XPS insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C578 properties. See [“FOAMULAR® Extruded Polystyrene Insulation Lifetime Limited Warranty”](#) for complete details, limitations, and requirements.

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>.

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