



FOAMULAR® CW15/CW25

Extruded Polystyrene (XPS)

Rigid Foam Insulation



Description

Owens Corning® FOAMULAR® CW15 and CW25 Extruded Polystyrene (XPS) Insulation are closed cell, moisture-resistant rigid foam boards designed for cavity wall applications. Pre-cut 16" wide boards yield fast, labor-saving installation.

Features

- Excellent long-term stable insulating performance of R-5¹ per inch
- Exceptional moisture resistance, long-term durability
- Reusable
- Lightweight, durable rigid foam panels are easy to handle and install
- Easy to saw, cut or score
 1. R means the resistance to heat flow; the higher the R-value, the greater the insulating power.

Technical Information

- FOAMULAR® XPS insulation is a non-structural material and must be installed on framing which is independently braced and structurally adequate to meet required construction and service loading conditions.
- FOAMULAR® XPS insulation can be exposed to the exterior during normal construction cycles. 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 and still useful insulation.
- 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.
- All construction should be evaluated for the necessity to provide vapor retarders. See current ASHRAE Handbook of Fundamentals.

Physical Properties²

Property	Test Method ³	CW15	CW25
Thermal Resistance ⁴ , R-value minimum, hr·ft ² ·°F/Btu	ASTM C 578		
@ 75°F (24°C) mean temperature		5.0	5.0
@ 40°F (4.4°C) mean temperature		5.4	5.4
Compressive Strength ⁵ , minimum psi	ASTM D 1621	15.0	25.0
Flexural Strength ⁶ , minimum psi	ASTM C 203	40	50
Water Absorption ⁷ , maximum % by volume	ASTM C 272	0.3	0.3
Water Vapor Permeance ⁸ , maximum perm	ASTM E 96	1.15	1.15
Dimensional Stability, maximum % linear change	ASTM D 2126	2.0	2.0
Flame Spread ^{9, 10}	ASTM E 84	10	10
Smoke Developed ^{9, 10, 11}	ASTM E 84	175	175
Oxygen Index ⁹ , minimum % by volume	ASTM D 2863	24	24

2. Properties shown are representative values for 1" thick material, unless otherwise specified.
3. Modified as required to meet ASTM C 578.
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. Because rigid foam plastic insulation products are not all 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 two mean temperatures, 40°F and 75°F, and from two aging (conditioning) techniques, 180 day real-time aged (as mandated by ASTM C 578) and a method of accelerated aging sometimes called "Long Term Thermal Resistance" (LTTR) per CAN/ULC S770-03. The R-value at 180 day real-time age and 75°F mean temperature is commonly used to compare products and is the value printed on the product.
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.
11. ASTM E 84 is thickness-dependent, therefore a range of values is given.

Standards, Codes Compliance

- Meets ASTM C 578 Type X (CW15) and Type IV (CW25)
- UL Classification Certificate U-197¹²
- Code Evaluation Report UL ER8811-01¹²
- ASTM E 119 Fire Resistance Rated Wall Assemblies¹²
- Meets California Quality Standards; HUD UM #71a
- Compliance verification by RADCO (AA-650)
 12. Visit www.owenscorning.com for more details.

Limited Warranty

FOAMULAR® XPS insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C 578 properties. See actual warranty for complete details, limitations and requirements at www.owenscorning.com.

Product and Packaging Data

Material				Packaging				
Extruded polystyrene closed cell foam panel with integrated continuous skins on face and back surfaces.				Shipped in poly-wrapped units with individually wrapped or banded bundles.				
Thickness (in)	Product Dimensions Thickness (in) x Width (in) x Length (in)	Pallet (unit) Dimensions (typical) Width (ft) x Length (ft) x Height (ft)	Square feet per Pallet	Board feet per Pallet	Bundles per Pallet	Pieces per Bundle	Pieces per Pallet	Edges
CW15								
1"	1 x 16 x 96	4 x 8 x 8	3,072	3,072	12	24	288	Square
1½"	1½ x 16 x 96	4 x 8 x 8	2,048	3,072	12	16	192	
2"	2 x 16 x 96	4 x 8 x 8	1,536	3,072	12	12	144	
2½"	2½ x 16 x 96	4 x 8 x 8	1,152	2,880	12	9	108	
3"	3 x 16 x 96	4 x 8 x 8	1,024	3,072	12	8	96	
CW25								
1"	1 x 16 x 96	4 x 8 x 8	3,072	3,072	12	24	288	Square
1½"	1½ x 16 x 96	4 x 8 x 8	2,048	3,072	12	16	192	
2"	2 x 16 x 96	4 x 8 x 8	1,536	3,072	12	12	144	
2½"	2½ x 16 x 96	4 x 8 x 8	1,152	2,880	12	9	108	
3"	3 x 16 x 96	4 x 8 x 8	1,024	3,072	12	8	96	

Product availability and lead times vary by region and by product. Consult your local Owens Corning sales representative for availability and lead times.

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.

Notes

Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® XPS insulation.

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

Certifications and Sustainable Features

- Certified by SCS Global Services to contain a minimum 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



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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.



OWENS CORNING FOAM INSULATION, LLC
 ONE OWENS CORNING PARKWAY
 TOLEDO, OHIO, USA 43659
1-800-GET-PINK®
www.owenscorning.com

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