



FOAMULAR® DURAPINK®

Extruded Polystyrene (XPS)

Rigid Foam Insulation



Description

DURAPINK® Roofing Recovery Board is an extruded polystyrene (XPS) roofing product designed for use with single-ply membranes, including black EPDM¹ and other dark-colored single-ply membranes.

Applications

DURAPINK® roofing recovery board works without overlay protection, ballast or pavers. DURAPINK® roofing recovery board saves the trouble and expense of removing the old roof, and adds insulation and moisture protection to the new one, providing new economy and durability for worn out commercial roofs.

Roofing recovery is an increasingly popular means of reroofing for aged and trouble-plagued roofs. The decision to recover a roof is based on two compelling reasons: The cost involved in tearing off the old roof, and the cost of disposing of the discarded debris—both of which can be significant. When you recover, both costs are avoided.

- Recommended for use directly under black EPDM membranes, without the need for protection

1. EPDM—Ethylene Propylene Diene Monomer roofing is a type of thermoset membrane roof material.

Features

- Excellent long-term stable insulation performance of R-5 per inch²
- Exceptional moisture resistance, long-term durability
- Lightweight, durable rigid foam panels are easy to handle and install
- Easy to saw, cut or score

2. R means the resistance to heat flow; the higher the R-value, the greater the insulating power.
 3. See actual warranty for complete details, limitations and requirements.

Physical Properties¹

Property	Test Method ²	Value
Thermal Resistance ³ , R-Value (180 day minimum, hr·ft ² ·°F/Btu (RSI, °C·m ² /W)	ASTM C518	
@ 75°F (24°C) mean temperature		
1/2" Thickness ⁴		3.0 (0.53)
1" Thickness		5.0 (0.88)
@ 40°F (4.4°C) mean temperature		
1/2" Thickness ⁴		3.2 (0.57)
1" Thickness		5.4 (0.95)
Long Term Thermal Resistance, LTTR-Value ³ minimum hr·ft ² ·°F/Btu (RSI, °C·m ² /W)		
@ 75°F (24°C) mean temperature		
1/2" Thickness ⁴	CAN/ULC S770-03	N/A
1" Thickness		5.0 (0.88)
Compressive Strength ⁵ , minimum psi (kPa)	ASTM D1621	
1/2" Thickness ⁴		18 (124)
1" Thickness		25 (172)
Flexural Strength ⁶ , minimum psi (kPa)	ASTM C203	75 (517)
Water Absorption ⁷ , maximum % by volume	ASTM C272	0.10
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	5
Smoke Developed ^{9, 10, 11}	ASTM E84	45-175
Oxygen Index ⁹ , minimum % by volume	ASTM D 2863	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)

1. Properties shown are representative values for 1" thick material, unless otherwise specified.
2. Modified as required to meet ASTM C578.
3. 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 C578) 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.
4. The 1/2" is actually a nominal half-inch of 9/16th needed to achieve 3.0 R-value.
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 E84 is thickness-dependent, therefore a range of values is given.

Product and Packaging Data

Material			Packaging					
Extruded polystyrene closed-cell foam panel with continuous skin 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
1/2	1/2 x 48 x 96	4 x 8 x 8	5,120	2,560	8	20	160	Square Edge
1	1 x 48 x 96	4 x 8 x 8	3,072	3,072	8	12	96	

1. Available lengths and edge configurations vary by thickness. See www.foamular.com for current offerings. Other sizes may be available upon request. Consult your local Owens Corning representative for availability.

Technical Information

- DURAPINK® roofing recovery board is to be installed over existing roofs only and not in new construction
- Recovery roofing is often done over uneven substrates. Humps, sharp edges or ridges in the existing membrane should be cut out if possible before covering with DURAPINK® roofing recovery board. If this is not possible, DURAPINK® roofing recovery board can be placed, but may crack over uneven surfaces when walked on
- All roofs to be recovered should be evaluated for the presence of an existing vapor retarder. Research by the Oakridge National Laboratory (ORNL) suggests that some wet roof systems containing permeable materials can be dried to the interior of a building if no internal vapor retarder is present
"The Impact of Climate on Drying Times of a Wetted Low-Slope Roof System," A.O. Desjarlais, D.M. Kyle, J.E. Christian, Oakridge National Laboratory, Journal of Thermal Insulation, December 1992.
- Some membranes, such as PVC containing plasticizers, will require a separator between DURAPINK® roofing recovery board and the membrane
- For roofing and other horizontal applications, product should be installed with the printed surface facing downward.
- DURAPINK® roofing recovery board can be installed over coal tar pitch (CTP) provided the existing coal tar is at least ten years old and has not been re-saturated in the last four years. If those age criteria are not met, a 6 mil polyethylene sheet will serve as an adequate separator between CTP and XPS
- See DURAPINK® roofing recovery board guide specifications for complete installation details

All construction should be evaluated for the necessity to provide vapor retarders. See current ASHRAE Handbook of Fundamentals.

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.

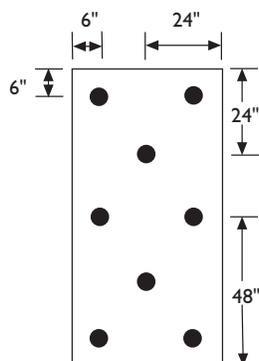
Standards, Codes Compliance

- Meets ASTM C578 Type IV
- UL Classified. A copy of UL Classification Certificate U-197 is available at www.owenscorning.com
- See UL ER8811-01 at UL.com
- ASTM E108 Fire Classified Assemblies. See UL On-Line Certifications directory for details.
- Meets California Quality Standards and HUD UM #71a
- Compliance verification by RADCO (AA-650)

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.

Fastening Pattern Diagram



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

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 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



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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.



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