Energy-Saving¹, Moisture Resistant XPS Insulation
ASTM C578 Type X, 15 psi minimum

Description
Owens Corning™ FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation is a closed cell, moisture-resistant rigid foam board well suited to meet the need for a wide variety of building applications.² FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation is great for many residential and commercial construction applications such as wall furring, perimeter/foundation, cavity wall, pre-cast concrete, crawl spaces, sheathing and other applications.² FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation is classified as a Type X product when tested in accordance with ASTM C578 and provides a long-term thermal performance of R-5 per inch.

Like all FOAMULAR® XPS products, FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation is made with Owens Corning’s patented Hydrovac® process technology under strict quality control measures, which makes it highly resistant to moisture and permits the product to retain its high R-value year after year even after prolonged exposure to moisture, and freeze/thaw cycling.

Key Features
• Excellent long-term stable insulating performance at R-5¹ per inch
• Exceptional moisture resistance, long-term durability
• Limited lifetime warranty⁴—maintains 90% of R-value and covers all ASTM C578 properties
• The only XPS foam to have achieved GREENGUARD Gold Certification
• The only XPS foam with certified recycled content—certified by SCS Global Services to contain a minimum 20% recycled content
• Will not corrode, rot or support mold growth
• Zero ozone depletion potential with 70% less global warming potential than our previous formula
• Reusable
• Lightweight, durable rigid foam panels are easy to handle and install
• Easy to saw, cut or score
• Versatile applications: sheathing, foundation walls, masonry cavity walls²
• Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation

Product Type
• Minimum compressive strength of 15 psi
• Wide selection of sizes and thicknesses
• Available in square, tongue and groove or scored square edge
• Compliant with building codes and standards

Product Applications
High-performance FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation:
• Retards the transmission of water vapor and moisture in masonry walls
• Provides continuous insulation over steel stud framing, in insulated concrete sandwich panel walls, or in masonry unit cavity walls, or when used with non-penetrating, surface mounted furring systems over masonry or concrete walls
• Insulates and retains its properties in below grade perimeter and foundation applications, to complement the insulating sheathing envelope around the building framing
• FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation is great for below grade applications. Extruded Polystyrene (XPS) is resistant to degradation from the

¹ Savings vary. Find out why in the seller’s fact sheet on R-values. Higher R-values mean greater insulating power.
² Not for use in roofing. For roofing applications, use FOAMULAR® THERMAPINK® Extruded Polystyrene (XPS) Rigid Foam Insulation.
³ R means the resistance to heat flow; the higher the R-value, the greater the insulating power.
⁴ See actual warranty for complete details, limitations and requirements
components of common soils and will retain its insulating performance characteristics even after prolonged exposure to moisture.

- Provides a weather resistant barrier (when joints are sealed) to enhance the building resistance to air and moisture penetration.

### Technical Information

This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For additional information, consult MSDS or 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.

**FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation**

**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.

**FOAMULAR® 150 Extruded Polystyrene XPS Rigid Foam Insulation** has a maximum service temperature of 165°F. Taking simple precautions during construction can minimize the potential for heat related damage. Install only as much FOAMULAR® XPS Insulation as can be covered in the same day. For horizontal applications, always turn the print side down so the black print does not show through to the sun which may at times

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### Typical Physical Properties

**FOAMULAR® 150 Extruded Polystyrene (XPS) Rigid Foam Insulation**

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thermal Resistance</strong>, R-Value (180 day) minimum, hr•ft•°F/Blu (RSI, °C•m²/W)</td>
<td>ASTM C518</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td><strong>Long Term Thermal Resistance</strong>, LTTR-Value** minimum, hr•ft•°F/Blu (RSI, °C•m²/W)</td>
<td>CAN/ULC S770-03</td>
<td>5.0 (0.88)</td>
</tr>
<tr>
<td><strong>Compressive Strength</strong>, minimum psi (kPa)</td>
<td>ASTM D1621</td>
<td>15 (103)</td>
</tr>
<tr>
<td><strong>Bending Strength</strong>, minimum psi (kPa)</td>
<td>ASTM C203</td>
<td>60 (414)</td>
</tr>
<tr>
<td><strong>Water Absorption</strong>, maximum % by volume</td>
<td>ASTM C272</td>
<td>0.10</td>
</tr>
<tr>
<td><strong>Water Vapor Permeance</strong>, maximum perm (mg/Pa•s•m²)</td>
<td>ASTM E96</td>
<td>1.5 (86)</td>
</tr>
<tr>
<td><strong>Dimensional Stability</strong>, maximum % linear change</td>
<td>ASTM D2126</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Flame Spread</strong>*</td>
<td>ASTM E84</td>
<td>5</td>
</tr>
<tr>
<td><strong>Smoke Developed</strong>*</td>
<td>ASTM E84</td>
<td>45-175</td>
</tr>
<tr>
<td><strong>Oxygen Index</strong></td>
<td>ASTM D2863</td>
<td>24</td>
</tr>
<tr>
<td><strong>Service Temperature</strong>, maximum °F (°C)</td>
<td></td>
<td>165 (74)</td>
</tr>
</tbody>
</table>

1. Properties shown are representative values for 1” thick material, unless otherwise specified.
2. Modified as required to meet ASTM C578; R-Value at 75°F (24°C) mean temperature is 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 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.
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. Values at yield or 10% deflection, whichever occurs first.
5. Value at yield or 5%, whichever occurs first.
6. Data ranges from 0.00 to value shown due to the level of precision of the test method.
7. Water vapor permeance decreases as thickness increases.
8. These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.
10. ASTM E84 is thickness-dependent, therefore a range of values is given.

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* Parts per million (ppm)
Product and Packaging Data

**FOAMULAR® 150 Extruded Polystyrene (XPS) Rigid Foam Insulation**

<table>
<thead>
<tr>
<th>Material</th>
<th>Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extruded polystyrene closed cell foam, ASTM C578 Type X, 15 psi minimum</td>
<td>Shipped in poly-wrapped units with individually wrapped or banded bundles.</td>
</tr>
</tbody>
</table>

### Certifications and Sustainable Features of FOAMULAR® XPS Insulation

- **FOAMULAR® XPS Insulation** is reusable.
- **FOAMULAR® XPS Insulation** is made with a zero ozone depletion formula.
- Certified by SCS Global Services to contain a minimum of 20% recycled content.
- Certified to meet indoor air quality standards under the stringent GREENGUARD Certification Program, and GREENGUARD Gold Certification Program.
- Qualified as an ENERGY STAR® product, under the U.S. Environmental Protection Agency and the U.S. Department of Energy.

### Standards, Codes Compliance

- Meets ASTM C578 Type X
- UL Classified. A copy of UL Classification Certificate U-197 is available at www.owenscorning.com
- See UL ER8811-01 at UL.com
- Meets California Quality Standards; HUD UM #71A
- Compliance verification by RADCO (AA-650)

### Act as a solar collector, raising the temperature of the foam under the print to an unacceptable level. Provide a final finish covering or temporary white opaque covering to avoid possible damage when dark (non-white) surfaces are used over FOAMULAR® XPS Insulation. Do not cover FOAMULAR® XPS Insulation either stored (factory wrapped or unwrapped), or partially installed, with dark colored (non-white), or clear (non-opaque) coverings and leave it exposed to the sun. Examples of such coverings include but are not limited to filter fabrics, membranes, temporary tarps, clear polyethylene, etc. If improperly covered, and exposed to the right combination of sun, time and temperature, FOAMULAR® XPS Insulation deformation damage may occur rapidly. See Owens Corning publication number 10015704, “Heat Build Up Due to Solar Exposure” for more information.

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*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.*
FOAMULAR® 150
Extruded Polystyrene (XPS) Rigid Foam Insulation

Product Data Sheet

• Approved under the Home Innovation Research Labs NGBS Green Certification Program

• Utilizing FOAMULAR® XPS Insulation can help builders achieve green building certifications including the Environmental Protection Agency’s ENERGY STAR®, the National Association of Home Builders’ National Green Building certification, and 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 http://sustainability.owenscorning.com.

Warranty
FOAMULAR® XPS Insulation limited lifetime warranty maintains 90% of its R-value for the lifetime of the building and covers all ASTM C578 properties. See actual warranty for complete details, limitations and requirements at www.owenscorning.com.

All products described here may not be available in all geographic markets. Consult your local sales office representative for more information.

For more information on the Owens Corning family of building products, contact your Owens Corning dealer, call 1-800-GET-PINK®, or access www.owenscorning.com.

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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.

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.

ENERGY STAR and the ENERGY STAR mark are registered trademarks of the U.S. Environmental Protection Agency.

This Home Innovation Research Labs Green Approved mark is your assurance that a product is eligible for points toward National Green Building Certification. Visit www.GreenApprovedProducts.com for details.

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