**Energy-Saving, Moisture-Resistant XPS Insulation Foundation Drainage Insulation**

ASTM C 578 Type IV, 30 psi minimum

**Description**

Owens Corning™ PINK-DRAIN™ board is a FOAMULAR® extruded polystyrene (XPS) product that incorporates the features of insulation, drainage, and protection board in a single, closed cell product for the exterior foundation wall. It’s easy to install without the need for special tools or equipment and the product’s compressive strength and long-term moisture resistance properties mean years of reliable performance on below grade foundation walls even under extremely harsh conditions. Like all FOAMULAR® XPS products, FOAMULAR® PINK-DRAIN™ board is highly resistant to moisture and permits the product to retain its high R-value year after year even after exposure to water, soil, condensation, and freeze/thaw cycling.

FOAMULAR® PINK-DRAIN™ XPS board is classified as a Type IV product when tested in accordance with ASTM C 578 and provides a long-term thermal performance.

**Key Features**

- Excellent long-term stable insulating performance at R-10
- Exceptional moisture resistance, long-term durability
- Limited lifetime warranty — maintains 90% of R-value and covers all ASTM C 578 properties
- The only XPS foam to be GREENGUARD Children & Schools Certified™
- The only XPS foam with certified recycled content — certified by Scientific Certification Systems (SCS) 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

**Product Applications**

- High-performance FOAMULAR® PINK-DRAIN™ XPS board:
  - FOAMULAR® XPS foam insulation is ideal for below grade applications. XPS is resistant to degradation from the components of common soils and will retain its insulating performance characteristics even after prolonged exposure to moisture
  - Retards the transmission of water vapor and moisture in masonry walls
  - Insulates and retains its properties in below grade foundation applications to complement the insulating sheathing envelope around the building framing

**Installation Instructions**

FOAMULAR® PINK-DRAIN™ XPS board is installed against exterior below grade foundation walls. PINK-DRAIN™ board can be installed directly over waterproofing or dampproofing membranes provided that the membrane is properly cured.

- Shiplap edges assure continuous insulation coverage
- High R-value, exceptional moisture resistance and high compressive strength
- Minimum compressive strength of 30 psi
- Available in thickness for R-10
- Compliant with building codes and standards
PINK-DRAIN™ boards should be installed vertically with the channels away from the wall. The boards should be installed so as to extend vertically from the top of the footing to several inches below finished grade. Apply a horizontal bead of compatible sealant at the top of the board and press in place against the basement wall to prevent moisture drainage behind the board. Fasten the insulation to the foundation wall using concrete fasteners with (typical) 1" diameter corrosion-resistant washers. Fasteners should penetrate the foam and 1.5" into the concrete. Use minimum of two fasteners per board. Ensure the shiplap edges of the board are tightly butted to each other during installation and that the board is securely fastened to the foundation wall. Care should be taken during the backfill operation as to not allow soil penetration between PINK-DRAIN™ boards and the foundation wall.

PINK-DRAIN™ boards should not be installed unprotected above grade. If FOAMULAR® insulation is left exposed, it should be covered with an appropriate protective coating. Interior wall insulation methods may also be considered for areas above grade.

PINK-DRAIN™ boards should be considered as a drainage enhancement mechanism. Owens Corning recommends the application of a waterproofing/dampproofing membrane at the foundation wall in addition to PINK-DRAIN™ board. The installation of a properly designed footing drainage system is also recommended.

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® 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 C 578 Type IV
• Meets California Quality Standards and HUD UM #71a

Typical Physical Properties
FOAMULAR® PINK-DRAIN™ Insulation Board

<table>
<thead>
<tr>
<th>Property</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Resistance, R-Value (180 day) minimum, hr•ft•˚F/Blu (RSL, °C•m2/W) @ 75°F (24°C) mean temperature 2½” Thickness</td>
<td>ASTM C 518</td>
<td>10.0 (1.76)</td>
</tr>
<tr>
<td>@ 40°F (4.4°C) mean temperature 2½” Thickness</td>
<td></td>
<td>10.8 (1.90)</td>
</tr>
<tr>
<td>Compressive Strength, minimum psi (kPa)</td>
<td>ASTM D 1621</td>
<td>30 (207)</td>
</tr>
<tr>
<td>Drainage Capacity, gal/min/ft</td>
<td>ASTM D 4716</td>
<td>3.9</td>
</tr>
<tr>
<td>Water Absorption, maximum % by volume</td>
<td>ASTM C 272</td>
<td>0.10</td>
</tr>
<tr>
<td>Water Vapor Permeance, maximum perm (ng/Pa•m²)</td>
<td>ASTM E 96</td>
<td>1.5 (86)</td>
</tr>
<tr>
<td>Dimensional Stability, maximum % linear change</td>
<td>ASTM D 2126</td>
<td>2.0</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E 84</td>
<td>5</td>
</tr>
<tr>
<td>Smoke Developed</td>
<td>ASTM E 84</td>
<td>45-175</td>
</tr>
<tr>
<td>Oxygen Index, minimum % by volume</td>
<td>ASTM D 2863</td>
<td>24</td>
</tr>
<tr>
<td>Service Temperature, maximum °F (°C)</td>
<td></td>
<td>—</td>
</tr>
<tr>
<td>Linear Coefficient of Thermal Expansion, m/in/°F (m/m°C)</td>
<td>ASTM E 228</td>
<td>3.5 x 10^-1 (6.3 x 10^-4)</td>
</tr>
</tbody>
</table>

1. Properties shown are representative values for core 1” thick material, unless otherwise specified.
2. Modified as required to meet ASTM C 578
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 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. R-values at yield or 10% deflection, whichever occurs first. 5. Per lineal foot of width. Tested at 1,200 psf, gradient 0.19 per ASTM D4716. 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. 9. Data from Underwriters Laboratories Inc.® classified. See Classification Certificate U-197. 10. ASTM E 84 is thickness-dependent, therefore a range of values is given.
FOAMULAR® PINK-DRAIN™
Extruded Polystyrene (XPS) Insulation Board

Product Data Sheet

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 Scientific Certification Systems to contain a minimum of 20% pre-consumer recycled polystyrene
- Certified to meet indoor air quality standards under the stringent GREENGUARD Indoor Air Quality Certification Program℠, and the GREENGUARD Children & Schools Certification Program℠
- Qualified as an ENERGY STAR® product, under the U.S. Environmental Protection Agency and the U.S. Department of Energy
- Approved under the National Association of Home Builders (NAHB) Research Center Green Seal of Approval
- 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
- FOAMULAR® XPS insulation qualifies for The Buy American provision of the American Recovery and Reinvestment Act (ARRA)

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.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 C 578 properties. See actual warranty for complete details, limitations and requirements at www.foamular.com or www.owenscorningcommercial.com.

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

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 our web sites: www.foamular.com and www.owenscorning.com.
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