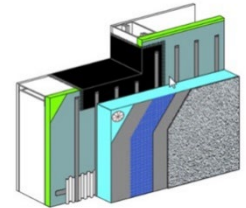


PRODUCT DESCRIPTION

DOW XENERGY™ Rigid Insulation is a closed-cell high-performance core material. Dow's proprietary extrusion process enables precise control of parameters such as density, cell size and cell orientation. This yields foam boards that can stand up to the most demanding composite panel applications. DOW XENERGY™ Rigid Insulation is supplied in sheets that have been carefully engineered and sanded to precise tolerances for an exceptional bonding surface. DOW XENERGY™ Rigid Insulation is customized for use in Exterior Insulation Finishing Systems (EIFS). The closed-cell structure of DOW XENERGY™ Rigid Insulation prevents the foam from absorbing water, which helps maintain panel integrity and insulating properties in low-temperature applications and other environments with high humidity conditions.



FEATURES & BENEFITS

FEATURE

- Fast, economical construction
- Energy Efficiency
- Low environmental impact

TECHNICAL DATA

Applicable Standards: DOW XENERGY™ Rigid Insulation complies with ASTM C578 Type X.

Code Compliances: DOW XENERGY™ Rigid Insulation complies with the following codes:

- Meets IBC/IRC requirements for foam plastic insulation. See International Code Council evaluation report ICC-ES ESR 2142
- UL Classified, See Classification Certificate D369

Contact your Dow sales representative or local authorities for state and local building code requirements and related acceptance.

Physical Properties:

DOW XENERGY™ Rigid Insulation exhibits the properties and characteristics indicated in Table 2 when tested as represented. Like all cellular polymers, this product will degrade upon high heat or prolonged exposure to sunlight. DOW XENERGY™ Rigid Insulation should not be used above 165°F surface temperature under any circumstances to maintain product integrity and system performance. A covering may be used to block ultraviolet radiation and prevent degradation. Other coverings to protect the foam from the elements and to meet applicable fire regulations may also be required. Consultation with local building code officials, design engineers/specifiers or insurance personnel is recommended before application.

Environmental Data:

DOW XENERGY™ Rigid Insulation is hydrochlorofluorocarbon (HCFC) free with zero ozone-depletion potential.

Fire Information:

DOW XENERGY™ Rigid Insulation is combustible; protect from high heat sources. A protective barrier or thermal barrier may be required as specified in the appropriate building code. For more information, consult MSDS, call Dow at 1-866-583-BLUE (2583) or contact your local building inspector.

TABLE 1: SIZES AND EDGE TREATMENTS FOR DOW XENERGY™ RIGID INSULATION

NOMINAL BOARD THICKNESS ¹ , IN.	BOARD LENGTH, IN.	BOARD WIDTH, IN.	EDGE TREATMENT
Available in 1", 1.5", 2", 3", 4"	Nominal 96"	24"	Straight Edge

TABLE 2: TYPICAL PHYSICAL PROPERTIES OF DOW XENERGY™ RIGID INSULATION

PROPERTY AND TEST METHOD	VALUE ¹
Maximum Recommended Use Temperature (°F)	165
Density, ASTM D1622, lb/ft ³	1.5
Compressive Strength ⁽¹⁾ , ASTM D1621, psi, min., vertical	20
Tensile Strength, ASTM D1623, lb/in ² , min., vertical	50
Shear Strength, ASTM C273, lb/in ² , min.	25
Shear Modulus, ASTM C273, lb/in ² , min.	300
Flexural Strength, ASTM C203, lb/in ² , min., extruded	40
Flexural Modulus, ASTM C203, lb/in ² , min., extruded	1,500
Water Absorption, ASTM C272, % by vol., max.	0.3
Water Vapor Permeance ⁽⁴⁾ , ASTM E96, perm, max.	1.5
Coefficient of Linear Thermal Expansion (CLTE), ASTM D696, in/in/°F	.000035
Impact Resistance, ASTM 2486, in-lbs, Using Standard Plus® Mesh	76
R-Value ⁽²⁾ per inch (25 mm), ASTM C518, °F•ft ² •h/Btu, 180 days aged @ 75°F (24°C) min.	5.0
Surface Burning Characteristics ⁽³⁾ , ASTM E84, Flame Spread Index	15
Smoke Developed Index	165

(1) Vertical compressive strength measured at 10 percent deformation or at yield, whichever occurs first. Adequate design safety factors should be used to prevent long-term creep. Contact Dow for design recommendations. When placing a load over the surface of the product, the compressive strength should be multiplied by 0.52 to account for the surface area lost due to channels cut into the foam surface.

(2) R means resistance to heat flow. The higher the R-value, the greater the insulating power.

(3) This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Based on 1" thickness

MANUFACTURER

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1-866-583-BLUE (2583)
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INSTALLATION

DOW XENERGY™ Rigid Insulation is strong, yet lightweight and easy to fabricate into various sizes and shapes to meet specific design needs. DOW XENERGY™ should be installed per manufacturer's instructions for the complete EIFS assembly. Contact the manufacturer of your system for full details.

AVAILABILITY

DOW XENERGY™ Rigid Insulation is only available as part of a complete Exterior Insulation and Finishing System. For more information, call 1-800-232-2436.

WARRANTY

In the United States, a 50-year thermal limited warranty is available on STYROFOAM™ Insulation products 1.5 inches and greater. For thickness less than 1.5 inches, other warranties may apply. Warranties are available as described at

<http://building.dow.com/na/en/tools/warranty.htm>

MAINTENANCE

Not applicable.

TECHNICAL SERVICES

Dow can provide technical information to help address questions when using DOW XNERGY™ Rigid Insulation. Technical personnel are available at 1-866-583-BLUE (2583).

FILING SYSTEMS

www.dowbuildingsolutions.com

www.sweets.com

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit products as of the date of publication of this document and is presented in good faith. Dryvit assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit.

For more information on Dryvit or Continuous Insulation, [click here](#).

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