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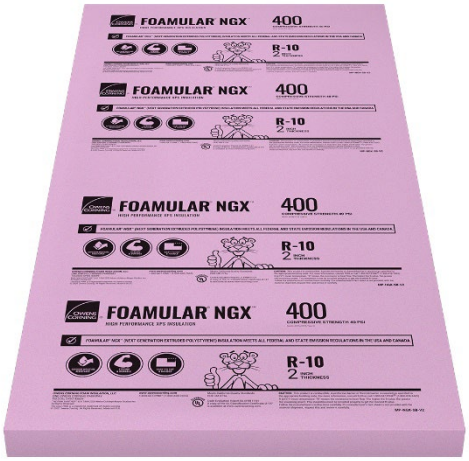
OWENS CORNING® EXTRUDED POLYSTYRENE INSULATION

Commercial Product Data Sheet



Owens Corning® Extruded Polystyrene (XPS) Insulation Boards are comprised of closed-cell, moisture-resistant rigid foam boards. It is designed for above-and-below grade applications such as protected membrane roof assemblies, split slabs, under slab and other applications.

Contact Siplast for additional information on approved product uses.

USES:
VEGETATED ROOFING
SPLIT SLAB WATERPROOFING
INVERTED ROOF MEMBRANE ASSEMBLIES

Standards	ASTM C578 Type VI & VII
Service Temperature (maximum)	165°F (74°C)
Edge Profile	Square Edging

40 PSI	
Thickness	**Dimensions**
1 in	1 in x 24 in x 96 in (Half Unit)
2 in	2 in x 24 in x 96 in 2 in x 48 in x 96 in
3 in	3 in x 24 in x 96 in 3 in x 48 in x 96 in
4 in	4 in x 48 in x 96 in

60 PSI	
Thickness	**Dimensions**
1 in	1 in x 24 in x 96 in (Half Unit)
1 ½ in	1.5 in x 24 in x 96 in
2 in	2 in x 24 in x 96 in 2 in x 48 in x 96 in
3 in	3 in x 24 in x 96 in 3 in x 48 in x 96 in
4 in	4 in x 24 in x 96 in

PRODUCT INFORMATION

Application

Refer to the Owens Corning Installation Guide for detailed application information.

Storage and Handling

XPS is non-structural and should be installed on framing that is independently braced and structurally adequate to meet loading requirements. When stored outdoors, XPS should be protected from exposure to direct sunlight using the original packaging or an opaque, light–colored tarp. XPS that has been unwrapped should be covered or rewrapped. Once the exposed XPS is covered, the damage stops and is limited to the thin layer of cells on the surface that was exposed to the UV. XPS cells below the UV exposed surface layer are generally undamaged and the XPS overall performance remains intact.

See Owens Corning publication number 10015704, “Heat Buildup Due to Solar Exposure” for more information.

CAUTION: This product is combustible. A protective barrier or thermal barrier is required as specified in the appropriate building code. For more information, consult SUIS or call 1-800-GET-PINK®.

Packaging

Shipped in poly-wrapped units with individually wrapped or banded bundles. Factory packaging not adequate for outdoor protection.

Listings, Approvals, & Certifications

UL certified under code evaluation report UL ER8811-01.
Certified by SCS Global Services to contain an average 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.

Current copies of all Siplast Commercial Product Data Sheets & Safety Data Sheets are posted on our website at www.siplast.com
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Siplast 14911 Quorum Dr., Suite 600 Dallas, TX 75254
201 Bewicke Ave., Suite 208 North Vancouver, BC, Canada V7M 3M7
Customer Service in North America 1.800.922.8800 www.siplast.com

OWENS CORNING EXTRUDED POLYSTYRENE INSULATION

Physical and Mechanical Properties

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Property (As Manufactured)		40 PSI*	60 PSI*	Test Method
Thermal Resistance[1] (R-value) (per in thick)	@75°F Mean Temp.	5.0°F·ft²·hr/Btu (0.88 RSI, °C·m²/W)	5.0°F·ft²·hr/Btu (0.88 RSI, °C·m²/W)	ASTM C518
	@40°F Mean Temp.	5.4°F·ft²·hr/Btu (0.95 RSI, °C·m²/W)	5.4°F·ft²·hr/Btu (0.95 RSI, °C·m²/W)	
	@25°F Mean Temp.	5.6°F·ft²·hr/Btu (0.99 RSI, °C·m²/W)	5.6°F·ft²·hr/Btu (0.99 RSI, °C·m²/W)	
Long-Term Thermal Resistance, LTTR-Value[2] (min.)		5.0 hr·ft2·°F/Btu (0.88 (RSI, °C·m²/W)	5.0 hr·ft2·°F/Btu (0.88 (RSI, °C·m²/W)	CAN/ULC S770-03
Compressive Strength[2] (min.)		40 psi (276 kPa)	60 psi (414 kPa)	ASTM D1621
Flexural Strength[3]		90 psi (621 kPa)	120 psi (828 kPa)	ASTM C203
Water Absorption[4] (max.)		0.3%	0.3%	ASTM C272
Water Vapor Permeance[5] (max.)		1.1 perm (63 ng/Pa·s·m²)	1.1 perm (63 ng/Pa·s·m²)	ASTM E96
Dimensional Stability (max.)		2.0%	2.0%	ASTM D2126
Surface Burning Characteristics	Flame Spread[6, 7]	10	10	ASTM E84
	Smoke Developed[6, 7]	175	175	ASTM E84
Density (min.)		1.45 lb/ft³	1.45 lb/ft³	ASTM C 303
Oxygen Index[6] (min.)		24%	24%	ASTM D2863
Linear Coefficient of Thermal Expansion		3.5 x 10^{-5} in/in/°F (6.3 x 10^{-5} m/m/°C)	3.5 x 10^{-5} in/in/°F (6.3 x 10^{-5} m/m/°C)	ASTM E228

[1] 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.
[2] Value at yield or 5% deflection.
[3] Properties shown are representative values for 2-inch-thick material, unless otherwise specified. Value at yield or 5%, whichever occurs first.
[4] Data ranges from 0.00 to value shown due to the level of precision of the test method.
[5] Water vapor permeance decreases as thickness increases.
[6] These laboratory tests are not intended to describe the hazards presented by this material under actual fire conditions.
[7] Data from Underwriters Laboratories Inc.® classified. See Classification Certificate U-197.
* Values stated are approximate and subject to normal manufacturing variation. These values are not guaranteed and are provided solely as a guide.

Siplast 14911 Quorum Dr., Suite 600 Dallas, TX 75254
201 Bewicke Ave., Suite 208 North Vancouver, BC, Canada V7M 3M7
Customer Service in North America 1.800.922.8800 www.siplast.com