Product Data Sheet



FOAMULAR® 150

Rigid Foam Insulation

All-purpose foam panel insulation for masonry and other applications.

Owens Corning FOAMULAR 150 extruded polystyrene insulation is ideal for wall furring, perimeter/foundation, cavity wall, crawlspace, pre-cast concrete, under slab, sheathing and other applications. Owens Corning's patented Hydrovac® process technology makes the unique closed-cell structure of FOAMULAR insulation highly resistant to moisture, retaining its long term R-value* year after year – even following prolonged exposure to water leakage, humidity, condensation, groundwater and freeze/thaw cycling.

FOAMULAR 150 Performance Benefits

- High R-value (R-5 per inch of product thickness).*
- Compressive strength of 15 psi.
- Effective resistance against moisture, mildew, corrosion and rot.
- Ease of handling and installation (lightweight, tough, rigid foam panels).
- Easy to saw, cut and score.
- · Wide selection of sizes and thicknesses.
- Availability in straight, tongue and groove, or scored square edges.
- Compliance with building codes and standards.

FOAMULAR 150

Superior Insulation Performance for a Wide Variety of Building Requirements

Product Applications

High-performance FOAMULAR 150 works to:

 Retard the transmission of water vapor and moisture in masonry walls, helping prevent structural damage.



- Provide insulation in a metal or wood furring system used for masonry or concrete walls.
- Perform below grade in perimeter and foundation applications to complement the insulating sheathing envelope around the building framing.

Resistant to common soils and decay, Owens Corning FOAMULAR retains its insulating performance characteristics even after prolonged exposure to moisture.

Standards and Codes Compliance

- Recognized by code authorities under Research Reports BOCA 96-24;
 ICBO 3628; SBCCI PST & ESI 9727A
- Meets HUD/FHA Use of Materials Bulletin No. 71A and ASTM C 578 Type X
- Underwriters Laboratories, Inc.[®], Classification Certificate U-197
- Thermal resistance: 5.0 at 75 °F,
 5.4 at 40 °F mean temperature per
 1" thickness (hr x ft² x °F/Btu)

Technical Information

- FOAMULAR insulation is ideal for all buildings under normal temperature conditions, but should not be used in contact with chimneys, heater vents, steam pipes or other surfaces where temperatures exceed 150°F. It is not recommended for applications where sustained temperatures exceed 165 °F.
- All construction should be evaluated for the necessity to provide vapor retarders.
 See current ASHRAE Handbook of Fundamentals.
- FOAMULAR insulation is a nonstructural material and must be installed on framings which are independently structurally adequate to meet required construction and service loading conditions.

FOAMULAR® 150 Rigid Foam Insulation

FOAMULAR Physical Properties(1)

	Product / Values	
Property	ASTM Method ⁽²⁾	FOAMULAR 150
Thermal conductivity – "k" (S) [Btu x in/ft² x hr x °F max] (@ 75°F mean temperature (@ 40°F mean temperature	C518	0.20 0.18
Thermal resistance – "R", minimum (°F x ft.²x h/btu) at 75°F mean temperature at 40°F mean temperature (K x m²/W) at 24°C mean temperature at 4°C mean temperature	C518	
Compressive strength, Minimum (lb/in²) ⁽⁴⁾	D1621	15.0
Flexural strength (lb/in² min) (5)	C203	60
Water absorption (% by volume max) (8)	C272	0.10
Water vapor permeance (perm max) (7)	E96	1.1
Water affinity	-	hydrophobic
Water capillarity	-	none
Dimensional stability (% linear change max) (8)	D2126	2.0
Linear coefficient of thermal expansion (in/in/°F max)	=	2.7x10 ⁻⁵
Flame spread ⁽⁹⁾⁽¹⁰⁾	E84	5
Smoke developed (9) (10) (11)	E84	45-175
Oxygen index min ⁽⁹⁾	D2863	24
(1) B 1		1 0

(1) Properties shown are representative values for 1" thick material based upon most recent product quality audit data. (2) Modified as required to meet ASTM C578. (3) Thermal resistance (R) (hr. x ft.2 x °F/Btu) - of a 1" thickness at 5.0 (at 75°F mean temperature), 5.4 (at 40°F). (4) Value 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) Actual water vapor permeance data decreases as thickness increases. (8) Data ranges from 0.0 to value shown. (9) These laboratory tests are not intended to describe the hazard 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 Data

Foamular Insulation Product - 150 (15psi)[3]

Material Extruded polystyrene closed-cell foam panel with continuous skins on face and back surfaces

Thicknesses ⁽¹⁾ (in)	Width x Length ⁽²⁾ (in)	Edges
1, 1½, 2, 2½, 3	16 x 96	Square
1, 1½, 2, 2½, 3, 3½	24 x 96	Square
1, 1½, 2, 2½, 3	48 x 96	Square
1	48 x 108	Square
1, 1½, 2, 2½, 3	48 x 96	Scored Square
1, 1½, 2	24 x 96	T&G(4)
1, 1½, 2	48 x 96	T&G(4)
1	48 x 108	T&G(4)
Weight Approxim	nately 120-130 lb/	/

Weight Approximately 120-130 lb/
1,000 ft² for 1" thickness

Packaging Shipped in units with two stretchwrap bands per bundle, with an

additional exterior wrap

(1) "R" per inch: 5.0 (at 75°F mean temperature).
(2) Other sizes available on request. Consult your local Owens Corning representative for availability.
(3) Compressive strength, minimum (specification) value (lb/in²). (4) Tongue-and-groove edge reduces

Caution

This product will ignite if exposed to fire of sufficient heat and intensity. During shipping, storage, installation and use, this product should not be exposed to open flame or other ignition sources. This product should be installed separated from building interior by concrete or masonary walls or by gypsum board on the interior side of the wall.

Note

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

Technical Information:

(800) 828-7155

FOAMULAR insulation is produced by Owens Corning's patented HYDROVAC® process technology.

For more information on the Owens Corning family of home building products, contact your Owens Corning dealer, call 1 - 8 0 0 - G E T - P I N K or access our Web site:

www.owenscorning.com





OWENS CORNING WORLD HEADQUARTERS

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