

Product Data Sheet



INSULPINK®-Z Insulation

**FOAMULAR® Extruded
Polystyrene Insulation**



Time and labor-saving; sized to fit commercial Z-furring channels.

Reduce job site labor costs while you install premium insulation.

- INSULPINK-Z insulation is pre-cut to a nominal width of 23 7/8" x 96" length panels, eliminating costly cutting of insulation panels to fit 24" o.c. Z-channels.
- Available in thicknesses of 1", 1 1/2" and 2"; square edges.
- Provides high, predictable R-value of 5 per inch of thickness.
- Extruded polystyrene insulation offers excellent moisture resistance for long-term thermal performance.
- Lightweight, durable rigid foam panels are easy to handle and install.

INSULPINK-Z insulation is extremely lightweight for easy handling and provides a compressive strength of 15 psi, which meets the requirements of a vertical wall application.

INSULPINK-Z insulation provides an R-value of 5 per inch of product thickness, and outstanding resistance to moisture for long-term retention of the thermal performance.

Product Data

Material	Extruded polystyrene closed-cell foam panel with continuous skins on top and bottom surfaces. INSULPINK-Z insulation is produced by Owens Corning's patented HYDROVAC® process technology under conditions of strict quality control.
Weight	Approx. 130 lb/1,000 sq ft for each inch of thickness.
Packaging	Shipped in units (8' high x 4' wide x 8' deep); 8 stretch-wrapped bundles per unit.
Thermal resistance	R-value = 5 per inch of thickness at 75 °F and 5.4 per inch at 40 °F.
Compliance with standards	Meets building code approvals – see BOCA 2603, ICBO 2602, SBCCI 2603, ASTM C 578, Type X. Underwriters Laboratories, Inc.® see Classification Certificate U-197.

Physical Properties⁽¹⁾

Property	ASTM Method ⁽²⁾	Product/Values FOAMULAR INSULPINK-Z Insulation
Thermal conductivity – “k” (Btu x in/°F x ft² x h) ⁽³⁾		
@ 75 °F mean temperature	C 518	0.20
@ 40 °F mean temperature		0.18
Compressive strength minimum (lb/in²) ⁽⁴⁾	D 1621	15.0
Flexural strength (lb/in² min.) ⁽⁵⁾	C 203	60
Water absorption (% by volume max.) ⁽⁶⁾	C 272	0.10
Water vapor permeance (perm. max.) ⁽⁷⁾	E 96	1.10
Water affinity	–	hydrophobic
Water capillarity	–	none
Dimensional stability (% linear change max.) ⁽⁸⁾	D 2126	2.0
Linear coefficient of thermal expansion (in/in/°F max.)	–	2.7 x 10 ⁻⁵
Flame spread ⁽⁹⁾⁽¹⁰⁾	E 84	5
Smoke developed ⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾	E 84	145-150
Oxygen index min. ⁽⁹⁾	D 2863	24

(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 C 578. (3) Thermal resistance (R) – (hr x ft² x °F/Btu) – of a 1" thickness 5.0 (at 75 °F mean temperature), 5.4 (at 40 °F mean temperature). (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. (7) Actual water vapor permeance data for 1" thick material value 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 E 84 is thickness-dependent, therefore a range of values is given.

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Product Availability

Thickness	1", 1½", 2"
Width x Length	23 7/8" (nominal) x 96"
Edges	square

Note

All products and sizes may not be available in all markets. For information about non-standard products, consult a local sales representative.

Caution

Combustible. FOAMULAR insulation will ignite if exposed to fire of sufficient heat and intensity, although it does contain a flame-retardant additive to inhibit ignition from small fire sources. This product should be installed only with a thermal barrier on the interior side of the wall. During shipping, storage, installation and use, this product should not be exposed to open flame or other ignition sources.

Architectural Notes

1. FOAMULAR is practical for all buildings having 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.
2. All constructions should be evaluated for the necessity of providing vapor retarders to avoid condensation and subsequent damage to the structure (see current ASHRAE Handbook of Fundamentals).
3. Provisions should be made to protect the insulation from excessive exposure to direct sunlight by covering the insulation as soon as possible.
4. Some plastic or oil-based adhesives and many solvent-laden mastics are not compatible with polystyrene-based rigid foam insulations. Specify Owens Corning's Bild-R-Tape® construction tape, when necessary.



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