



INNOVATIONS FOR LIVING™

FOAMULAR® Extruded Polystyrene Insulation

Commercial Product Directory of Availability and Physical Properties

Product Data Sheet

There's a type and size of FOAMULAR insulation for every application

Applications

- Masonry cavity walls
- Wall furring to interior masonry/concrete walls
- Masonry veneer/steel stud wall systems
- Tilt-up concrete panels
- Below-grade exterior foundations
- Poured-in-place concrete wall systems
- Precast concrete
- Under concrete slabs
- Plaza and parking decks
- Commercial roofing systems
- Recover board
- Cold storage facilities
- Below-grade waterproofing
- Frost heave protection
- Agricultural housing
- RV/mobile homes
- Exterior insulation and finishing systems
- Insulating sheathing

Also Available

- FoamSealR™ sill plate gasket
- raft-R-mate® attic rafter vents
- FANFOLD foundation protection board
- BILD-R-TAPE® construction tape

Product Data

Material: Extruded polystyrene closed-cell foam panel with continuous skin on face and back surface. FOAMULAR insulation is produced by Owens Corning's patented Hydrovac® process technology under conditions of strict quality control.

Packaging

Shipped in units (typically 3,072 board-feet per unit) with two stretch-wrap bands per bundle.

Caution

Combustible. Although it does contain a flame-retardant additive to inhibit ignition from small fire sources, if exposed to fire of sufficient heat and intensity, FOAMULAR insulation will ignite. Do not expose the product to open flame during shipping, storage, installation or use. In most applications, a code-compliant thermal barrier must be used to separate FOAMULAR insulation from the building interior. See "conditions for use" section of ICC ES Reprt 96-24 for application covering recommendations.

Product Availability

Insulation Product	Thickness ¹ (in)	Width x Length ² (in)	Edges	Weight (approx. lb/1,000 ft ² for 1" thickness)
FOAMULAR 150 (15 psi) ³	1, 1½, 2, 2½, 3 1, 1½, 2, 2½, 3, 3½ 1, 1½, 2, 2½, 3 1	16 x 96 24 x 96 48 x 96 48 x 108	Square	120-130
FOAMULAR 150 (15 psi) ³	1, 1½, 2, 2½, 3	48 x 96	Scored Square	
FOAMULAR 150 (15 psi) ³	1, 1½, 2 1, 1½, 2 1	24 x 96 48 x 96 48 x 108	T&G ⁴	
FOAMULAR 250 (25 psi) ³	1, 1½, 2, 2½, 3 ¾, 1, 1½, 2, 2½, 3, 3½, 4 ¾, 1, 1½, 2, 2½, 3 ¾, 1	16 x 96 24 x 96 48 x 96 48 x 108	Square	150
FOAMULAR 250 (25 psi) ³	¾, 1, 1½, 2, 2½, 3	48 x 96	Scored Square	
FOAMULAR 250 (25 psi) ³	¾, 1, 1½, 2 ¾, 1, 1½, 2 ¾, 1	24 x 96 48 x 96 48 x 108	T&G ⁴	
FOAMULAR 400 (40 psi) ³	1½, 2, 2½, 3, 3½, 4	24 x 96	Square	200
FOAMULAR 600 (60 psi) ³	1½, 2, 2½, 3	24 x 96	Square	240
FOAMULAR Half-inch (18 psi) ³	½	24 x 96, 48 x 96 or 108	Square	150
AGTEK®	1, 1½	48 x 200-318	Ship-lap	150
DURAPINK®	½, ¾, 1	48 x 96	Square	150
INSUL-DRAIN®	1, 1½, 2½	48 x 96	T&G ⁴	165
THERMAPINK® 18	1, 1½, 2, 3	48 x 96	Square	150

¹"R" per inch: 5.0 (at 75°F mean temperature). Nominal ½" film-faced insulating sheathing R-3.0 @ 75°F mean temperature

²Other sizes available on request. Consult your local Owens Corning representative for availability.

³Compressive strength, minimum (specification) value (lb/in²)

⁴Tongue-and-groove edge reduces air infiltration.

Note: All products in every size described here may not be available in all geographic markets. For information about non-standard products, consult a local sales office or representative.



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Grinding, sawing or fabricating can produce dust particles which may be irritating to eyes, nose and throat. Avoid buildup of dusts. Certain conditions form explosive dust atmospheres that can be ignited. Ensure adequate ventilation.

When installing the THERMAPINK® insulation in the steel deck roof assemblies, see special instructions for installation directly over the steel decking. During shipping, storage, installation and use, this product should not be exposed to open flame or other ignition

sources. See other FOAMULAR installation literature for more detailed product and application data.

Typical Physical Properties

Property	Test Method ²	Product/Values								
		FOAMULAR 150	FOAMULAR 250	FOAMULAR 400	FOAMULAR 600	FOAMULAR Half-inch	AGTEK	DURAPINK	INSUL-DRAIN	THERMAPINK 18
Thermal conductivity - "k" (Btu x in/hr x ft ² x °F, max) ³	ASTM C 518	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
@ 75°F mean temperature		0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
@ 40°F mean temperature										
Compressive Strength, minimum value (lb/in ²) ⁴	ASTM D 1621	15.0	25.0	40.0	60.0	18.0	25.0	25.0	25	18.0
Flexural Strength (lb/in ² , min.) ⁵	ASTM C 203	60	75	115	140	—	75	75	75	60
Water Absorption (% by volume, max.) ⁶	ASTM C 272	0.10	0.10	0.05	0.05	0.10	0.10	0.10	0.10	0.10
Water Vapor Permeance (perm, max.) ⁷	ASTM E 96	1.10	1.10	1.10	1.10	1.10	1.20	1.10	1.10	1.10
Water Affinity	—	—	—	—	hydrophobic	—	—	—	—	—
Water Capillarity	—	—	—	—	none	—	—	—	—	—
Dimensional Stability (% linear change, max.) ⁸	ASTM D 2126	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Linear Coefficient of Thermal Expansion (in/in/°F, max)	—	2.7 × 10 ⁻⁵								
Flame Spread ^{9,10}	ASTM E 84	5	5	5	5	5	5	5	5	5
Smoke Developed ^{9,10,11}	ASTM E 84	45-175	45-175	45-175	45-175	45-175	45-175	45-175	45-175	45-175
Oxygen index, min. ⁹	ASTM D 2863	24	24	24	24	24	24	24	24	24
Type Classifications	ASTM C 578	Type X	Type IV	Type VI	Type VII	—	Type IV	Type IV	Type IV	Type X

¹Properties shown are representative values for 1" thick material based upon most recent product quality audit data.

²Modified as required to meet ASTM C578.

³Thermal 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).

⁴Value at yield or 10% whichever occurs first.

⁵Value at 5% yield or 5% whichever occurs first.

⁶Data ranges from 0.00 to value shown, due to the level of precision of the test method.

⁷Actual water vapor permeance data decreases as thickness increases.

⁸Data ranges from 0.00 to value shown.

⁹These laboratory tests are not intended to describe the hazard presented by this material under actual fire conditions.

¹⁰Data from Underwriters Laboratories, Inc.® Classified. See Classification Certificate U-197.

¹¹ASTM E 84 is thickness-dependent, therefore a range of values is given.

*Minimum foam core value



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