



Designed for masonry cavity wall applications

Unlike some rigid foam insulation, FOAMULAR extruded polystyrene insulation is virtually impervious to moisture. This moisture-resistant property – along with its high R-value, light weight, competitive price and wide range of sizes – makes it ideal for use in a cavity wall system.

- Highly stable R-value for predictable insulating performance
- Low capillarity and outstanding moisture resistance
- Meets ASTM C578 Specifications
- Pre-cut 16" wide boards yield fast, labor-saving installation
- “Split-Pak” packaging keeps boards clean and dry on jobsite

Thermal Performance

An insulated masonry cavity wall has an R-value near 3. One inch of FOAMULAR insulation can increase that to R-8; two inches to R-13. FOAMULAR insulation does not rely on degradable facers for long-term R-value retention.

Product Data

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

Sizes: 1, 1.5, 2 in. thick, 16 in. wide x 96 in. long

Weight (for 1" thick board):

Approx. 125 lbs/msf (CW15),
Approx. 150 lbs/msf (CW25)

Edges: Square



FOAMULAR® Extruded Polystyrene Insulation Physical Properties⁽¹⁾

Property	ASTM Method ⁽²⁾	Product/Values FOAMULAR	
		CW15	CW25
Thermal resistance – ‘R’, minimum (hr x ft ² x °F/Btu) ⁽³⁾ @ 75°F mean temperature @ 40°F mean temperature	C518	5.0 5.4	5.0 5.4
Compressive strength, Minimum (specification) value (lb/in ²) ⁽⁴⁾	D1621	15.0	25.0
Flexural strength, minimum (lb/in ²) ⁽⁵⁾	C203	60	75
Water by absorption, maximum (% by volume) ⁽⁶⁾	C272	0.10	0.10
Water vapor permeance, maximum (perm) ⁽⁷⁾	E96	1.10	1.10
Water affinity	–	hydrophobic	
Water capillarity	–	none	
Dimensional stability, maximum (% linear change) ⁽⁸⁾	D2126	2.0	2.0
Linear coefficient of thermal expansion maximum (in/in/°F)	–	2.7x10 ⁻⁵	2.7x10 ⁻⁵
Flame spread ⁽⁹⁾⁽¹⁰⁾	E84	5	5
Smoke developed ⁽⁹⁾⁽¹⁰⁾⁽¹¹⁾	E84	≤155	45-175
Oxygen index, minimum ⁽⁹⁾	D2863	24	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 C578. (3) Thermal resistance(R) – (hr. x ft.² x °F/Btu) – of a 1" thickness 5.0 (at 75°F mean temperature). 5.4 (at 40°F). (4) Value at yield. (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. See Classification Certificate U-197. (11) ASTM E84 is thickness dependent, therefore a range of values is given.

FOAMULAR® Extruded Polystyrene Insulation CW15 / CW25

Packaging

Size	pcs/ unit	pcs/ bndl	bndl/ unit
1"	288	24	12
1.5"	192	16	12
2"	144	12	12

Standards and Code Compliance:

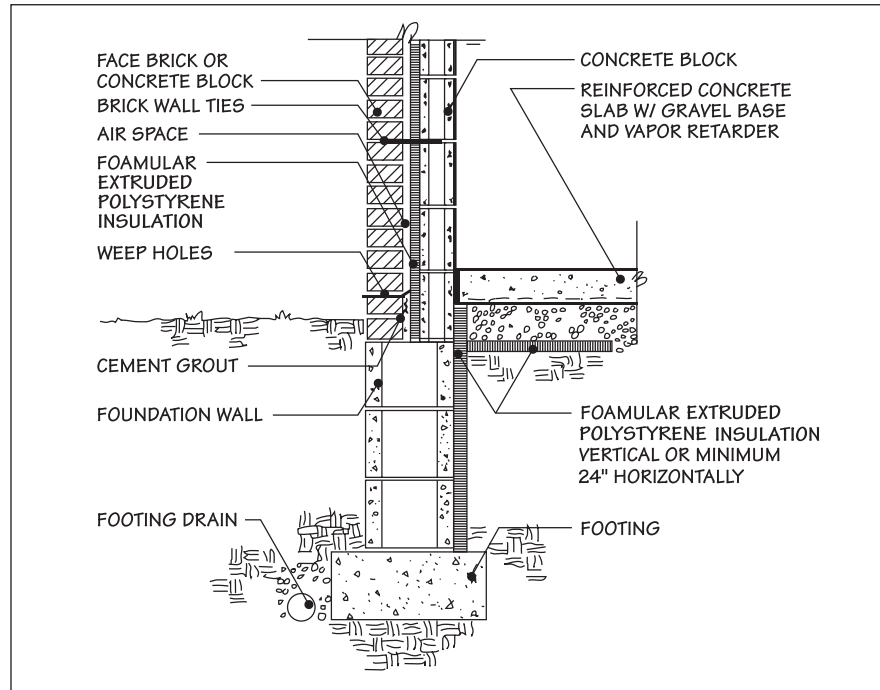
- CW15 meets ASTM C-578-95 (type X)
- CW25 meets ASTM C-578-95 (type IV)
- Underwriters Laboratories, Inc.®
See Classification Certificate U-197
- Recognized by code authorities under research reports: BOCA 91-54, ICBO 3628 and SBCCI PST & ESI 94191

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

For more information on Owens Corning FOAMULAR insulation, contact your Owens Corning representative or call: 1-800-GET-PINK.

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 temperature exceed 150°F. It is not



recommended for applications where sustained temperatures exceed 165°F.

2. Caution: Combustible. FOAMULAR 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. During shipping, storage, installation, and use, the product should not be exposed to open flame or ignition sources.

3. All constructions should be evaluated for the necessity of providing vapor retarders to avoid conden-

sation and subsequent damage to the structure (see current ASHRAE Handbook of Fundamentals).

4. Provisions should be made to protect the insulation from excessive exposure to direct sunlight by covering the insulation as soon as possible.

5. 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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OWENS-CORNING WORLD HEADQUARTERS

ONE OWENS CORNING PARKWAY
TOLEDO, OHIO, USA 43659

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