



FOAMULAR® CW Plus Extruded Polystyrene Rigid Foam Insulation

Product Description

When you need the highest level of performance available in masonry cavity wall insulation today, CW Plus from Owens Corning is the best choice. CW Plus combines the outstanding moisture resistance you have come to expect from extruded polystyrene with superior thermal performance in excess of R-5.0 per inch.

The main advantage of CW Plus over other extruded polystyrene boards is its higher R-value. With a nominal thickness of 2", CW Plus will deliver a full R-12 performance compared to R-10 for standard extruded polystyrene, giving the owner better thermal performance with the same wall assembly cross-section. With a 1.5" thick board, giving an insulating value of R-10, a designer can either increase the air gap (decreasing mortar bridging) or reduce the wall cross-section.

Installation

Locate insulation horizontally between wall ties directly on masonry backup wall. FOAMULAR® CW Plus is cut to 16" widths to fit easily and snugly between the masonry wall ties. The insulation should be installed as the exterior brick face is going up so the board is protected from sunlight.

Provide 1" minimum (2" desirable) clear air space between the inside brick face and the exterior surface of the insulation board.

Abut foam insulation board joints tightly. Cut insulation to fit tightly around vents, louvers, pipes, conduits and other through wall/insulation penetrations.

Provide adequate flashings, functioning weepholes and caulk moving joints.

The building designer should determine the need for and placement of vapor retarders.

Architectural Notes

FOAMULAR products are 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.

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 flames or ignition sources.

All construction should be evaluated for the necessity of providing appropriate retarders to avoid condensation and subsequent damage to the structure (see current ASHRAE Handbook of Fundamentals).

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

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.

More information

For more information on FOAMULAR CW Plus, please contact your Owens Corning representative.

FOAMULAR® Extruded Polystyrene Rigid Foam Insulation CW Plus Technical Data

Material Properties

Property	Test Method	Test Result
Aged R-value per inch @ 75°F, ft ² •h•°F/Btu	ASTM C 518	5.3
Compressive strength (min lb./in ²)	ASTM D 1621	25
Flexural strength (lb./in ²)	ASTM C 203	75
Water Absorption (max. %)	ASTM C 272	0.1
Water vapor permeance (max., perms)	ASTM E 96	1.1
Dimensional stability (max. % linear change)		2.7 • 10 ⁻⁵
Flame spread	ASTM E 84	5
Smoke developed	ASTM E 84	145
Service temperature		165
Material specification	Meets specifications of ASTM C578 Table 1 Type IV	

Product Availability

Nominal Thickness*	Width x Length	R-value
1 5/8"	16 x 96"	R-10
2"	16 x 96"	R-12

*Tolerances are -0", + 10/32"

Code Compliance Reports:

- BOCA 91-54
- ICBO 3628
- SBCCI PST & ESI 9727
- Underwriters Laboratories, Inc.® Classified – see Classification Certificate U-197.

Availability

CW Plus is currently available in the thicknesses and sizes detailed above. Contact your Owens Corning representative for more information.

Other Information

More information on the complete line of Owens Corning FOAMULAR extruded polystyrene rigid foam insulation including CW15 and CW25 masonry cavity wall insulation is available from your Owens Corning representative.



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