

FOAMULAR® Extruded Polystyrene Rigid Insulation **Performance Criteria Summary Sheet**

		Residential above or below grade wall & underslab	Commercial above grade wall	Residential or commercial below grade wall	Commercial roofing	Under slab, foundation wall, inverted roofing, and civil applications			Residential above or below grade wall	Residential below grade wall	
		FOAMULAR® CodeBord®	FOAMULAR® C-200^	FOAMULAR® C-300^	FOAMULAR® 350 & 350 CVI	FOAMULAR® 400 High Density	FOAMULAR® 600 High Density	FOAMULAR* 1000 High Density	FOAMULAR® Cel-Lok®	FOAMULAR* Cel-Drain*	
Standard Thicknesses *Metric sizes for CMU also available		20 mm, 25 mm, 38 mm, 51 mm, 76 mm , 89 mm (0.8", 1", 1.5", 2", 3", 3.5")	25 mm, 38 mm, 51 mm, 64 mm, 76 mm, 102 mm (1", 1.5", 2", 2.5", 3", 4")	25 mm, 38 mm, 51 mm, 64 mm, 76 mm, 102 mm (1", 1.5", 2", 2.5", 3", 4")	38 mm, 51 mm, 64 mm, 76 mm, 102 mm (1.5", 2", 2.5", 3", 4")	25 mm, 38 mm, 51 mm, 76 mm, 102 mm (1", 1.5", 2", 3", 4")	25 mm, 38 mm, 51 mm, 76 mm (1", 1.5", 2", 3")	38 mm, 51 mm, 76 mm (1.5", 2", 3")	38 mm, 51 mm (1.5", 2")	76 mm, 89 mm, 102 mm (3", 3.5", 4")	
Thermal Resistance ft ² hr °F/BTU (m ² °C/W)		4, 5, 7.5, 10, 15, 17.5 (0.70, 0.88, 1.32, 2.64, 3.08)	5, 7.5, 10, 12.5, 15, 20 (0.88, 1.32, 1.76, 2.2, 2.64, 3.52)	5, 7.5, 10, 12.5, 15, 20 (0.88, 1.32, 1.76, 2.2, 2.64, 3.52)	7.5, 10, 12.5, 15, 20 (1.32, 1.76, 2.2, 2.64, 3.52)	5, 7.5, 10, 15, 20 (0.88, 1.32, 1.76, 2.64, 3.52)	5, 7.5, 10, 15 (0.88, 1.32, 1.76, 2.64)	7.5, 10, 15 (1.32, 1.76, 2.64)	7.5, 10 (1.32, 1.76)	15, 17.5, 20 (2.64, 3.08, 3.52)	
24 °C (75 °F) ⁽¹⁾		5.0 (0.88)									
4.4 °C (40 °F)(1)		5.4 (0.95)									
-4 °C (25 °F)(1)		5.6 (0.99)									
Long Term Thermal Resistance (LTTR)	CAN/ULC S770	The LTTR performance for Owens Corning* FOAMULAR* insulation products per CAN/ULC S701-17 are as follows: Type 3 products: Minimum LTTR of RSI 1.62 at 50 mm thickness. & Type 4 products: minimum LTTR of RSI 1.66 at 50 mm thickness. Please consult local Owens Corning Technical Representative for any additional information.									
Standard Widths		610 mm (24"), 1220 mm (48")	610 mm (24")	610 mm (24")	610 mm (24")	610 mm (24")	610 mm (24")	610 mm (24")	610 mm (24")	610 mm (24")	
Standard Lengths		2438 mm, 2743 mm, 3048 mm (96", 108", 120")	2438 mm (96")	2438 mm (96")	1220 mm (48")	2438 mm (96")	2438 mm (96")	2438 mm (96")	2438 mm (96")	2438 mm (96")	
Edge configuration		Square or Ship Lapped Edges	Square or Ship Lapped Edges	Square or Ship Lapped Edges	Ship Lapped Edges*	Square Edges	Square Edges	Square Edges	Ship Lapped Edges [†]	Ship Lapped Edges ⁴	
Compliance					<u>'</u>						
CCMC Listing		13431-L	13431-L	13430-L	13430-L	-	-	-	13431-L	13387-R	
Standard Thermal Insulation Polystyrene	CAN/ULC-S701	Туре 3	Туре 3	Туре 4	Type 4	Type 4	Type 4	Type 4	Туре 3	Туре 3	
Physical Proper	ties										
Compressive Strength, min. psi (kPa)	D1621	20(2) (140)	20(2) (140)	30(2) (210)	35(3) (240)	40(3) (275)	60 ⁽³⁾ (415)	100(3) (690)	20(2) (140)	20(2) (140)	
Compressive Modulus, psi	(kPa) D1621	1000 (6895)	1000 (6895)	1350 (9308)	1480 (10204)	2000 (13789)	2700 (18616)	3700 (25510)	1000 (6895)	1000 (6895)	
Flexural Strength, typ. psi	(kPa) C203	60 (414)	60 (414)	75 (517)	80 (552)	115 (793)	140 (965)	150 (1034)	60 (414)	60 (414)	
Linear Coefficient Thermal Expansion in/in/°F (mm/m	nm/°C) E228	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	3.5x10 ⁻⁵ (6.3x10 ⁻⁵)	
Dimensional Stability, max. (% linear change)	D2126	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	
Limiting Oxygen Index, min.	. min. D2863	24	24	24	24	24	24	24	24	24	
Fire Performance	e										
									74 (165)	74 (165)	
Moisture Perfor	mance										
Water Absorption (max. % by volume)	D2842	0.70	0.70	0.70	0.70	0.60	0.55	0.50	0.70	0.70	
Water Vapour Permeance typical perms. (ng/Pa•s•i	m²) ASTM E96	0.90 (52)	0.90 (52)	0.87 (50)	0.87 (50)	0.87 (50)	0.87 (50)	0.87 (50)	0.90 (52)	0.87 (50)	
Water Capillarity	-					None					
Water Affinity	-					Hydrophobic					
Sustainability &	Environmental										
SCS Certification recycled content (Scientific Certification Systems)		20% (post-industrial or pre-consumer)									
UL Environmental Product Declaration			Available								
UL Transparency Brief			Available Available								
Cradle to Cradle Material Health Certificate			Silver								
UL GREENGUARD Certified		Gold									

(1)Thermal resistance for 1 inch (25 mm) thickness (2)At 10% deformation or yield (3)At 5% deformation or yield (4)Value 2" (50 mm) thickness

- Certified performance: Owners Corning Canada LP will provide test cartification for published physical properties pertaining to sure PoAMULAR* insulation products.
 Jubsite handling: To protect FOAMULAR* insulation and to prevent discolouration and/or surface deterioration caused by excessive exposure to direct surlight, it is recommended that in exterior applications the product be covered as soon as practicable.

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 Jobsite handling: To protect FOAMULAR* insulation is combustible for a design dissembly shall conform to applicable building codes.

 Jobsite handling: To protect FOAMULAR* insulation is combustible and can be a fire hazard if improperly used or installed. Though they contain a flame retardant to inhibit gritton they will ignite if exposed to fire of sufficient intensity.

 Do not expose them to open flame or other ignition sources during shipping handling, storage, and installation or use.

 Journal of the protection will be provided by a minimum 1/2* (12/mm) blick gypsum board, or approved equal, covering surfaces exposed after installation. Boards must be mechanically fastened in place as prescribed by the applicable Building Code.

 A disablest-Sealants: Some of these products contains solvents that affects by explication and number of other petroleum derivative

"CVI notes drainage channels underside of board. One lengthwise and two widthwise: 13 mm wide x 13 mm deep max; 1/2" x 1/2". One entire perimeter: 6.5 mm wide x 13 mm deep max; 1/4" x 1/2". Tapered options available through third party.

**Metal furring channels: 0.46 mm (28 gauge) x 9.5 mm (3/8") x 38 mm (1.5") x 2413 mm (95"). **Grooved channels 6 mm deep x 19 mm wide, and spaced 50 mm center on center.



FOAMULAR® Extruded Polystyrene Rigid Insulation Product Applications



FOAMULAR® CodeBord® Insulation: Rigid insulation board with thermal, moisture resistive properties and functionality as air barrier for use on residential and commercial exterior above or below grade wall assemblies and suitable under floor slabs that do not exceed 20 psi. Compatible with wood, steel, or concrete assemblies. Available in thicknesses from 20 mm (0.8") to 102 mm (4"), 1220 mm (48") width and 2438 mm (96"), 2743 mm (108") and 3048 mm (120") lengths with ship lapped edge.



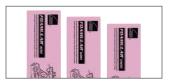
FOAMULAR® C-200 Insulation: Rigid insulation board with thermal, moisture resistive properties and functionality as air barrier for use on residential and commercial exterior above or below grade wall assemblies and suitable under floor slabs that do not exceed 20 psi. Compatible with wood, steel, or concrete assemblies. Available in thicknesses from 25 mm (1") to 102 mm (4"), 610 mm (24") width and 2438 mm (96") length in square or ship lapped edges.



FOAMULAR® C-300 Insulation: Rigid insulation board with thermal and moisture resistive properties used as continuous insulation for use on residential and commercial above and below grade wall assemblies and suitable under floor slabs that do not exceed 30 psi.



FOAMULAR® 350 & 350 CVI Insulation: Rigid insulation board for protected membrane roofing applications. High density continuous insulation for use on commercial flat roof assemblies with option of integrated drainage channels (CVI).



FOAMULAR® 400/600/1000 High Density Insulation: High strength products designed for use in building envelope and civil engineering applications requiring additional load-bearing capability such as under slab, concrete floors, flat roofs, foundations, roadways and rail beds, plaza and parking decks and cold storage installations.



FOAMULAR® Cel-Lok® Insulation: Rigid insulation board with three double grooves per board for insertion of U shaped metal furring strip. Continuous insulation for concrete or concrete block walls applied directly to the wall surface to yield a reduction in total thickness of the assembly.



FOAMULAR® Cel-Drain® Insulation: Rigid insulation board that provides continuous thermal resistance, drains moisture, and protects above grade portion of foundation. Continuous exterior insulation for concrete or concrete block foundation walls with manufactured drainage channels to direct moisture to weeping tile systems.

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