



Foamular 300 Extruded Polystyrene Foam

Owens Corning FOAMULAR 300 extruded polystyrene insulation is ideal for wall furring, perimeter/ foundation, cavity wall, crawlspace, pre-cast concrete, under slab, roofing systems, cladding and other applications.

Owens Corning's patented Hydrovac[®] process technology make the unique closed-cell structure of FOAMULAR insulation highly resistant to moisture, retaining its long term R-value* year after year – even following prolonged exposure to water leakage, condensation, groundwater and freeze/thaw cycling.



Performance Benefits

• High R-value compared to more traditional insulation products

Foamular 300							
Thickness	Aged R Value @ 18 degrees C						
30mm	0.94						
40mm	1.25						
50mm	1.56						
60mm	1.88						
100mm	3.13						

- Minimum compressive strength of 300 kPa.
- Effective resistance against moisture, mildew, corrosion and rot.
- Ease of handling and installation (lightweight, tough, rigid foam panels).
- Easy to saw, cut and score
- Wide selection of sizes and thicknesses
- Available in straight, tongue and groove, or scored square edges.

Product Applications

Superior insulation performance for a wide variety of building requirements. High-performance FOAMULAR 300 works:

- When joints are taped, provides a weather resistant barrier to enhance the longevity of the building.
- Provides insulation in a metal or wood furring system used for masonry or concrete walls.
- Performs below ground in perimeter and foundation applications, or directly beneath the concrete slab to complement the insulating sheathing envelope around the building framing.
- FOAMULAR is ideal for below ground applications. Extruded polystyrene (XPS) is resistant to degradation from material common to most soils and will retain its insulating performance characteristics even after prolonged exposure to moisture.

Technical Information

FOAMULAR insulation is ideal for all buildings under normal temperature conditions, but should not be used in contact with chimneys, heater vents, steam pipes or other surfaces where temperatures exceed 75°C.

FOAMULAR insulation is a non-structural material and must be installed on framings which are independently structurally adequate to meet required construction and service loading conditions.





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Note: Foamular 300 (green column below) is ex stock, the other grades are indent only and subject to minimum order quantities

Properties	Standa rd	Unit	FM150	FM250	FM300	FM350	FM400	FM450	FM500	FM550	FM600	FM6 50	
Density (minimum)		kg/m³	25-28	31-35	36-40	38-42	38-44	40-45	40-45	40-46	40-46	46- 48	
Thermal Conductivity (90 days, 18ºC)	ASTM C518	W/mk	≤0.032										
Compressive Strength	ASTM 1621	kpa	≥ 150	≥ 300	≥ 300	≥ 350	≥ 400	≥ 450	≥ 500	≥ 550	≥ 600	≥ 650	
Tensile Strength	ASTM D1623	kpa	200	300	330	500	550	600	650	700	750	800	
Flammability	ASTM E84		5 (Class A)										
Design Load for traffic		kN/m2	60	90	110	120	135	145	160	190	230	300	
Water Vapour permeability	ASTM E96	ng/(pa. s.m²) @ 25.4m m	≤ 63	≤ 63	≤ 35	≤ 35	≤ 35	≤ 35	≤ 35	≤ 35	≤ 35	≤ 35	
Water absorption	ASTM C272		≤ 0.1	≤ 0.1	≤ 0.1	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05	
Temperature limits		٥C	Minus 50 to Plus 75 degrees										
Length		mm				1200	and 2400 lon	g is availab	le				
Width		mm				600 a	nd 1200 wide	e is availabl	e				
Thickness		mm	20, 25, 30, 40, 50, 60, 70, 80	20, 25, 30, 40, 50, 60, 70, 80, 90, 100	25, 30, 40, 50, 60, 70, 90, 100	30, 40, 50, 60, 70, 80, 90, 100	40, 50, 60, 70, 80, 90, 100	40, 50, 60, 70, 80, 90, 100	40, 50, 60, 70, 80, 90, 100	40, 50, 60, 70, 80	50, 60	50, 60	
Minimum Thickness (Square Edge)		mm	20	20	25	25	40	40	40	40	40	40	
Minimum Thickness (Shiplap Edge)		mm	25	25	25	25	40	40	40	40	40	40	
Edge profile						Square	Edge and Shi	olap					
Applications		•	1	1			r	1	1	1	I	1	
concrete flat roofs			х	х	Х								
parking decks				х	Х								
metal roofs			х	х	Х								
exterior walls			X	X	Х								
cavity walls			X	X	Х								
cold storage floors				X	X	x	х	X	X	х	X	Х	
cold storage walls			X	X	X								
cold storage ceilings				X	X	X							
ice rinks				X	Х	X	X						
nignways						X	X			X		X	
airport runways							X	X	X	X	X	X	
sandwich panels			Х	Х	X								

Caution

This product will ignite if exposed to fire of sufficient heat and intensity. See the conditions of use section of the code evaluation reports for specific applications. During shipping, storage, installation and use, this product should not be exposed to open flame or other ignition sources.

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