

GAF Cornell ThermaCal[®] Wall Panels Data Sheet

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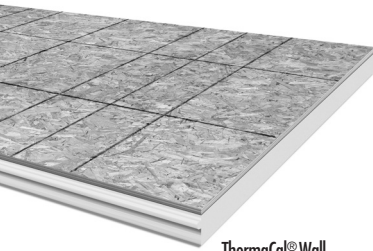
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ThermaCal[®] Wall

EXTERIOR WALL INSULATION PANELS



ThermaCal[®] Wall
Exterior Wall
Insulation Panels

Description

ThermaCal[®] Wall Exterior Wall Insulation Panels are factory-assembled panels consisting of a top surface of sheathing (which serves as a nail base for exterior sidewall coverings) and GAF EnergyGuard[™] Polyiso Insulation. They're manufactured in our Statesboro, Georgia, plant using the latest technology in manufacturing to provide a product of the highest quality and performance.

Features and Benefits

- Insulates to help reduce heat and cold drive into the living/conditioned space, helping reduce associated energy costs
- Designed for attachment to structural exterior sidewalls while serving as a nailable base for most exterior sidewall coverings*
- Nominal 4' x 8' (1.21 m x 2.44 m) panels (actual coverage is approx. 47½" x 96" [1.21 m x 2.44 m])
- Panels include premium-quality GAF EnergyGuard[™] Polyiso Insulation
- Tongue-and-groove foam (8' [2.44 m] sides) provides a tight fit to help minimize heat loss through panel joints
- Top sheathing layer is cut back (8' [2.44 m] sides) for sheathing expansion clearance and easy installation

***Note:** ThermaCal[®] Wall Panels are **NOT** structural. They can be used with most exterior sidewall coverings that allow attachment to sheathing only, and should **NOT** be used with heavier exterior sidewall coverings that require attachment to studs. Always consult the exterior sidewall covering manufacturer for acceptable substrates and attachment requirements. Do **NOT** install EIFS (Exterior Insulation Finishing Systems) over ThermaCal[®] Wall Panels.

Specifications

- Single layer of sheathing: 7/16" (11.1 mm) OSB (standard) and 5/8" and 3/4" (15.9 mm & 19.1 mm) OSB or plywood; fire-treated options also available
- Polyiso insulation thicknesses available: 1.0" – 4.0" (25 mm – 102 mm)
- R-values available: 6.30 – 24.20

Codes & Compliance

ThermaCal[®] Wall Exterior Wall Insulation Panels:

- May contribute to LEED[®] credits

Polyiso Insulation:

- Complies with ASTM C1289 Type V
- ASTM E84 Flame Spread Index of ≤75 and Smoke Developed Index of ≤450

ThermaCal [®] Wall Exterior Wall Insulation Panels						
Approx. Overall Panel Thickness ¹		Nominal Polyiso Thickness		Approx. Weight		Total System R-Value ²
in.	mm	in.	mm	lb/sq. ft.	kg/sq.m	
1.5"	38 mm	1.0"	25 mm	1.6	7.81	6.30
2.0"	51 mm	1.5"	38 mm	1.7	8.30	9.20
2.5"	64 mm	2.0"	51 mm	1.8	8.79	12.00
3.0"	76 mm	2.5"	64 mm	1.9	9.29	15.00
3.5"	89 mm	3.0"	76 mm	2.0	9.76	18.00
4.0"	102 mm	3.5"	89 mm	2.1	10.25	21.10
4.5"	114 mm	4.0"	102 mm	2.2	10.74	24.20

¹ Approx. overall panel thickness and weight based on the polyiso insulation and one layer of 7/16" (11.1 mm) OSB.

² Total system R-value includes the LTR R-value of the polyiso insulation and .62 R-value of the 7/16" (11.1 mm) OSB attached to the polyiso. LTR R-value calculations are based on ASTM C1289-17.

For technical information, contact GAF Technical Services at 1-800-ROOF-411 or email technicalquestions@gaf.com.
For assistance with specifications, contact GAF Architectural Information Services at 1-800-522-9224 or email AIS@gaf.com.