

GAF Cornell ThermaCal®
Wall Insulation Panels - Sell Sheet
(RESGN428)

Updated: 10/15



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North America's Largest Roofing Manufacturer!™*



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ThermaCal® Wall

EXTERIOR WALL INSULATION PANELS



Description

Designed to add insulation value to the outside of exterior sidewalls while serving as a nailable base for exterior sidewall coverings,* ThermaCal® Wall Exterior Wall Insulation Panels help reduce heat and cold drive into the occupied/conditioned space. They can also help reduce associated energy costs and meet the increased R-value energy code requirements being adopted in certain climate zones. ThermaCal® Wall Panels attach to structural exterior sidewalls and can be fastened to outside wall sheathing, metal, or masonry walls.

- Nominal 4' x 8' (1.22 m x 2.44 m) panels
- Single layer of sheathing (7/16" [11.1 mm] OSB standard); other options available
- Polyiso thicknesses available: 1" – 4" (25 mm – 102 mm)
- R-values from 6.20 – 24.20

***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.

All ThermaCal® Wall Panels provide:

- **Continuous Insulation**... Insulating only the cavity wall area leaves up to 25% of the wall area underinsulated by studs, creating a thermal bridge. Installing ThermaCal® Wall Panels helps eliminate thermal bridging by covering the studs while adding continuous insulation to the rest of the wall.
- **Reduced Heat Loss**... Exclusive tongue-and-groove design (8' [2.44 m] sides) helps minimize heat loss through the panel joints.
- **Fewer Hassles**... Machined construction with cut-back sheathing (8' [2.44 m] sides) allows for precision fit and clearance for sheathing expansion.
- **Versatility**... Can be used on residential or commercial exterior sidewall applications without the need for interior alterations.
- **Sheathing Configurations Available**... 7/16" (11.1 mm) OSB nailing surface (standard); optional 5/8" (15.9 mm) and 3/4" (19.1 mm) OSB or plywood, and FSC chain-of-custody or fire-treated options.

Codes & Standards:

ThermaCal® Wall Exterior Wall Insulation Panels:

- May contribute to LEED® credits
- Optional FSC chain of custody available (Certificate #SGS-COC-0054443)

Polyiso Insulation:

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

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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	6.20
2.0"	51 mm	1.5"	38 mm	1.7	8.30	9.10
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 LTTR R-value of the polyiso insulation and .62 R-value of the 7/16" (11.1 mm) OSB attached to the polyiso. LTTR R-value calculations are based on ASTM C1289-11A, effective January 1, 2014.

For technical assistance: 1-800-ROOF-411.

For assistance with specifications, contact GAF Architectural Information Services: 1-800-522-9224 or ais@gaf.com.

gaf.com
cornellcorporation.com



Featuring EnergyGuard™ Polyiso Insulation



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