



**For All  
Roof Coverings**

- Fully machined composite panel
- Sheathing pre-spaced for thermal expansion
- 7/16" OSB standard; 5/8" or 3/4" OSB/plywood optional
- Nominal 4' x 8' panel

**CODE ACCEPTABILITY  
CERTIFICATION**

CODES - O.S.B. is approved by CABO, ICBO, BOCA, SBC, ARMA and the APA as roof sheathing. The foam used in ThermaCal® has a Flame Spread Rating of 25\*\* or less. Foam with Factory Mutual Class 1 approval per FMRC Standard 4450/4470 is used.

Plastic foam must be protected from flame on the inside by a suitable barrier. Generally, wood decking or drywall is acceptable and plywood is allowed in certain roofing applications. CHECK LOCAL CODES. \*\*This numeric Flame Spread Rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

**UNDERWRITERS  
LABORATORIES**

ThermaCal® is classified under U.L. as a roof covering accessory (TGDY) per ANSI/UL 790 (ASTM E-180) and as a Building Unit (tiar) per UL 1256 for construction No. 120 and No. 123.

**CODES AND  
COMPLIANCES**

FEDERAL SPECIFICATION-meets the physical property requirements of HH-1-1972/GEN. The foam meets ASTM C1289-95.

MODEL CODES-foam insulation is in compliance with:

- BOCA- Section 2603.0
- ICBO- Section 2602
- SBCCI- Section 2603.2



**DATA TABLE**

APPROX. THICKNESS		OVERALL WEIGHT P.S.F.	LTTR R-VALUE*
2.0"	51 mm	1.7	10.2
2.5"	64 mm	1.8	12.7
3.0"	75 mm	1.9	15.9
3.5"	89 mm	2.0	19.2
4.0"	102 mm	2.1	22.4
4.5"	114 mm	2.2	25.6
5.0"	127 mm	2.3	28.0
5.5"	140 mm	2.4	31.2
6.0"	152 mm	2.5	34.4
6.5"	165 mm	2.6	37.7
7.0"	178 mm	2.7	40.8
7.5"	190 mm	2.8	44.0
8.0"	203 mm	2.9	47.4

\*Long Term Thermal Resistance (LTTR) R values are determined in accordance with CAN/ULC-S770. This is a 15 year time-weighted average value and was adopted by U.S. polyisocyanurate manufacturers on January 1, 2003. The nominal foam thickness is 1/2" less than the overall panel thickness.

**FEATURES**

**THERMACAL®/THERMACAL® X  
EXCLUSIVE FEATURE!**

**REDUCES  
HEAT LOSS!**



**SPECIFY  
Tongue & Groove  
Edges to Reduce  
Heat Loss!**

- Exclusive tongue and groove edges
- Greatly reduces heat loss at joints
- No additional cost

**DRAFT SPECIFICATIONS**

This spec is usually placed in Section 07 22 00.

It can be downloaded from our website:

[www.cornellcorporation.com](http://www.cornellcorporation.com).

**THERMACAL®/THERMACAL® X  
NAIL BASE ROOF INSULATION**

**1. DESCRIPTION OF SYSTEM**

A. The insulated sheathing shall be ThermaCal® or ThermaCal®X a non-vented nail base roof insulation consisting of a 7/16" oriented strand board top surface (optional 5/8" or 3/4" OSB / plywood-architect to choose) bonded to \_\_\_\_\_ thick polyisocyanurate or extruded polystyrene foam.

B. The Long Term Thermal Resistance (LTTR) R-Value of the non-vented roof insulation shall be not less than \_\_\_\_\_.