

PERFORMANCE NAIL BASE INSULATION



DATA TABLE

APPROX. OVERALL THICKNESS		WEIGHT P.S.F.	LTR R-VALUE*
2.0"	51 mm	1.7	8.4
2.5"	64 mm	1.8	11.2
3.0"	75 mm	1.9	14.0
3.5"	89 mm	2.0	16.8
4.0"	102 mm	2.0	19.7
4.5"	114 mm	2.2	22.6
5.0"	127 mm	2.3	25.3
5.5"	140 mm	2.4	28.1
6.0"	152 mm	2.5	31.0
6.5"	165 mm	2.6	33.6
7.0"	178 mm	2.7	36.3
7.5"	190 mm	2.8	39.1
8.0"	203 mm	2.9	42

*For comparison with Long Term Thermal Resistance (LTR) values provided by XPSA. LTR values generated per CAN/ULC S770 by a third party laboratory. The nominal foam thickness is 1/2" less than the overall panel thickness.

CONSIDERATIONS

THERMACAL® AND THERMACAL®X NAIL BASE ROOF INSULATION

The designer should determine if a vapor barrier is required between the deck and the insulation. A vapor retarder should always be specified in buildings with high humidity conditions, such as swimming pools.

C. Wood panel edges shall be rabbetted to allow the foam edges to fit together while providing clearance between the wood sheathing on adjoining panels.

D. Foam sides and ends shall have a tongue and groove profile to reduce heat loss at the joints.

2. SUBMITTALS

A. The following will be submitted to the architect for approval: Copies of the manufacturer's product information and installation instructions. A sample with the edge profile specified.

3. PRODUCTS

A. Products shown below are acceptable provided they meet the requirements of this specification.

ThermaCal® or ThermaCal® X

by Cornell Corporation, Cornell, WI

Tele: (715) 239-6411 Fax: (800) 267-8368

EXCELLENT R-VALUE RETENTION

07 22 00/COR
BuyLine 4252

VERY LOW MOISTURE ABSORPTION



EXtruded Polystyrene Nail Base Roof Insulation

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®X has a Flame Spread Rating of 10**. Plastic foam must be protected from flame on the inside by a suitable barrier. Generally, wood decking or drywall is acceptable and plywood or metal decking are 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®X is classified under UL Standard 790 as to External Fire Exposure and is listed as a Prepared Roofing Accessory for use in Construction No. 632. The foam used complies with ASTM C578.

CODES AND COMPLIANCES

FEDERAL SPECIFICATION - foam meets HUD/FHA Use of Materials Bulletin No. UM71a, ASTM C578 and AASHTO M230.

MODEL CODES-foam insulation is in compliance with:

BOCA- Section 2603.0

ICBO- Section 2602

SBCCI- Section 2603.2