



## DATA TABLE

APPROX. OVERALL THICKNESS		WEIGHT P.S.F.	LTR R-VALUE*
3"	75 mm	1.9	7.50
3 1/2"	89 mm	2.0	10.60
4"	102 mm	2.1	13.40
4 1/2"	114 mm	2.2	16.20
5"	127 mm	2.3	19.00
5 1/2"	140 mm	2.4	22.00
6"	152 mm	2.5	24.75
6 1/2"	165 mm	2.6	27.50
7"	178 mm	2.7	30.25
7 1/2"	190 mm	2.8	33.00
8"	203 mm	2.9	35.75

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



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3 1/2"	89 mm	3.3	8.40
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7 1/2"	190 mm	4.1	31.00
8"	203 mm	4.2	33.60

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

Note: 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.

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6. The vent space shall provide a minimum of 10 sq. in. of Net Free Area per lineal foot of insulation after deducting for the spacer blocks or strips.

### 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 and large enough to show the actual lateral spacing of the vent space supports. A manufacturer's dimensioned drawing showing how the 50% lateral ventilation is achieved. Calculations of spacer block percentage of panel area and the Net Free Area per Lin. Ft. of insulation after deducting for spacers.

### 3. PRODUCTS

A. Products shown below are acceptable provided they meet the requirements of this specification. Vent-Top ThermaCal® 1 or 2, or Vent-Top ThermaCal®X1 or X2 (Spec writer to choose)  
by: Cornell Corporation, Cornell, WI  
Tele: (715) 239-6411 Fax: (800) 267-8368

## Extruded Polystyrene

07 22 00/COR  
BuyLine 4252



### For Shingles and Metal Roofing

- Single layer of sheathing
- Nominal 4' x 8' panel

VENT-TOP THERMACAL®X EXCLUSIVE FEATURE!



SPECIFY Tongue & Groove Edges for Reduced Heat Loss!



### For Slate, Tile and Maximum Loading

- Two layers of sheathing
- 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 Vent-Top ThermaCal®X1 and 2 has a Flame Spread Rating of 10\*\*. Plastic foam must be protected from flame on the inside by a suitable barrier. Some codes require a 15 minute 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

Vent-Top ThermaCal®X is classified under UL Standard 790 as to External Fire Exposure and is listed as a Prepared Fire Roofing Accessory for use in Construction No. 632. The foam 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

### VENT SPACE PROPERTIES

Depth	1" (25 mm)
Cross Section	10 Sq. In. of Net Free Area/Lin.Ft. (212 Sq.Cm./meter).
Open Area	Not less than 92% of plan area
Max. Spacer Separation	Less than 12" (300 mm)

### PHYSICAL PROPERTIES

O.S.B. Sheathing Conforms to APA rated sheathing standard PRP 108, Exposure 1 and HUD/FHA-918.

#### Foam

Flame Spread (extruded polystyrene)	E84	10
k Factor at 75°	C512	0.20
Vapor Permeance	E96	approx. 1.1 perm