Sure-Vent(EXTRUDED)

Cross-Vented Nail Based Roof Insulation

TECH DATA 7-24-07

1. PRODUCT NAME

Sure-Vent (extruded)
Cross-Vented Nail Based Insulation

2. MANUFACTURER

Chardan Specialties
705 S. Union St.
Bryan, OH 43506
Phone: (419) 636-6900
Fax: (419) 636-9292

3. PRODUCT DESCRIPTION

Sure-Vent insulation is a fabricated cross-vented nail base roof insulation which allows for venting over structural decks.

***Basic Use*: Sure-Vent** is light weight and easy to handle and is especially useful in cathedral ceilings, commercial and institutional buildings, or log homes where attic ventilation was not possible.

4. TECHNICAL DATA

Sure-Vent, is fabricated from thermally efficient extruded-closed cell polystyrene insulation material. It is also available in expanded polystyrene insulation (bead board), or polyisocyanurate insulation. See reverse side for additional physical properties. **Sure-Vent** insulation is 2&7/16" thick and 48" x 96". Its uniform fabrication allows for automatic cross ventilation.

5. INSTALLATION

Install **Sure-Vent** insulation directly over a dry, clean structural deck with OSB side facing up.

Secure **Sure-Vent** to structural deck per architects' specifications, and in accordance with NRCA recommendations.

6. AVAILABILITY AND COST

Sure-Vent is in stock for immediate shipment. To obtain competitive price information please contact Chardan Specialties at (419) 636-6900.

7. WARRANTY

Sure-Vent is warranted to be free of manufacture defects, maintain 90% of its' original R-value, for extruded, 80% for expanded and 70% for polyisocyanurate. Chardan Specialties, does not guarantee results from the use of the information provided and disclaims all liability from any loss or damage.

8. MAINTENANCE

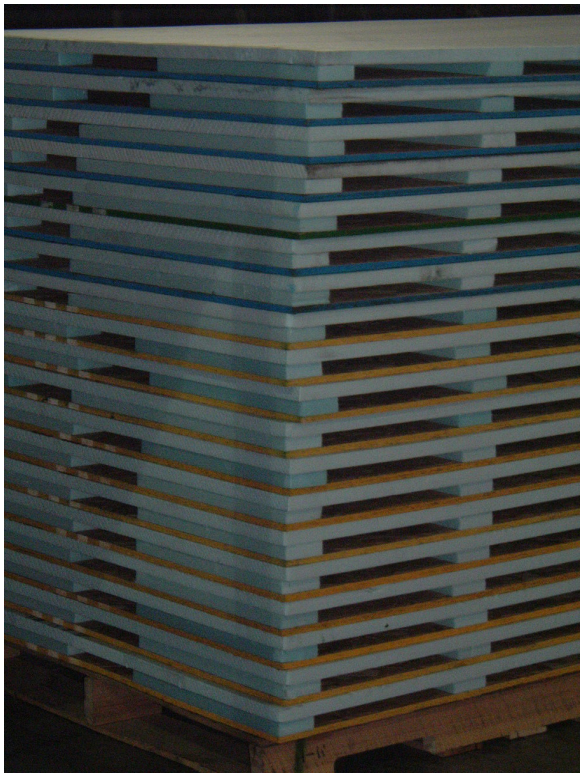
When installed in accordance with manufacturer's instructions, no maintenance is required.

9. TECHNICAL SERVICES

Technical advice may be obtained by contacting the fabricator.
www.chardanspecialties.com

10. FILING SYSTEMS

Additional manufacturer's information available upon request.



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Installation Instructions

Install Extruded Sure-Vent directly over a dry, clean structural deck (OSB side up). Extruded Sure-Vent should not be butted tightly to one another. Allow 1/8" (3mm) spacing between the boards.

Secure Extruded Sure-Vent to wood decks with roof insulation fasteners (#12 or #14 recessed head screws) having sufficient length to penetrate a minimum of 1/2" (3mm) through plywood or OSB deck, or minimum 1" (25.4mm) into the deck lumber substrate. Roof insulation plates are not required.

Secure Extruded Sure-Vent to steel decks with roof insulation fasteners (#12 or # 14 recessed head screws) having sufficient length to penetrate a minimum of 3/4" (19mm) through the bottom rib. Roof insulation plates are not required.

Storage

Store Extruded Sure-Vent in a weather protected environment, clear of ground and moisture. (OSB can absorb moisture.)

Special Precautions

1. Due to minor variation in thickness, considered nominal, steps to mitigate "picture framing" associated with thickness variation may be needed. Taping topside joints of Extruded Sure-Vent with True Tape® sheathing tape is optional and may further assist in reducing the effects of picture framing.

2. The need for a vapor retarder, as well as the type, placement and location of a vapor retarder should be determined by an architect or engineer. The following situations require a vapor retarder.

a.) Projects in geographical location where the outside January temperature averages 40 degrees Fahrenheit or less.

(b.) Projects which generate unusually high relative humidity occupancy rates.

Extruded Insulation Physical Properties

Properties	ASTM Method	25 psi
Compressive Strength	D 1621	25 (typical)
Flexural Strength	C 203	40
Water Absorption	C 272	.010%
Water Vapor Permeance	E 96	.03
Dimensional Stability	D 2126	2.0%
ASTM C578 -87a type		IV
UL Constr. #		260,440
Max use Temp.		165
Flame Spread	E 84	5
Smoke Development	E 84	165

Thermal Properties

Total Nominal Thickness Inches	2.5	3	3.5	4	4.5	5	5.5
Vented Nail Base LTTR R-Value (1" airspace)	5.4	7.7	10.2	12.7	15.2	17.7	20.2

Note: LTTR R-Values for extruded polystyrene .
Insulation products as per CAN/ULS S770