

Insul-Vent

Vented Insulation For Nail Based Applications

TECH DATA

7-24-07

1. PRODUCT NAME

Insul-Vent Patented

Vented Nail Based Insulation

2. MANUFACTURER

Chardan Specialties

705 S. Union St.

Bryan, OH 43506

Phone: (419) 636-6900

Fax: (419) 636-9292

www.chardanspecialties.com

3. PRODUCT DESCRIPTION

Insul-Vent insulation is a **patented** fabricated vented nail base roof insulation which allows for venting over structural decks.

Basic Use: Insul-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 is not possible.

4. TECHNICAL DATA

Insul-Vent, is made of thermally efficient extruded and expanded closed cell polystyrene insulation material. It is also available in polyisocyanurate insulation. See reverse side for additional physical properties. Insul-Vent® insulation is 2" thick and 48" x 48". Its uniform fabrication allows for automatic cross ventilation.

5. INSTALLATION

Install Insul-Vent® insulation directly over a dry, clean structural deck with "nodes" or "pads" facing up.

Secure Insul-Vent to structural deck with a temporary adhesive or fastening method. Install nailable cover board per architects' specifications, and in accordance with NRCA recommendations.

6. AVAILABILITY AND COST

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

7. WARRANTY

Insul-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

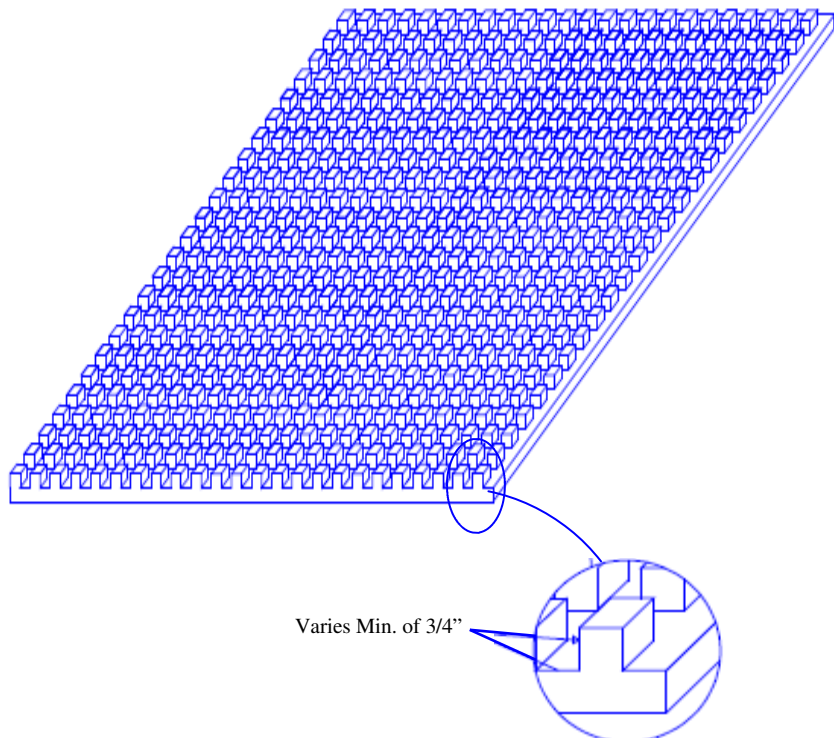
When installed in accordance with manufacturer's instructions, no maintenance is required.

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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Insul-Vent Extruded Polystyrene Insulation Physical Properties

Properties	ASTM Method	Results
Compressive Strength	D 1621	25 Typical
Flexural Strength	C 203	50
Water Absorption	C 272	.03
Water Vapor Permeance	E 96	Less than 1
Dimensional Stability	D 2126	2.0 Percent
Federal Specification	C578-04	Type IV
Max use Temp.	N/A	165 degrees
Flame Spread	E 84	5
Smoke Development	E 84	165
Thermal Performance		
LTR R Value	C-518	2" Material = R 7.5
Warranted R-Value	C-518	2" Material = R 7.5

Insul-Vent Expanded Polystyrene Insulation Physical Properties

Properties	ASTM Method	Results
Compressive Strength	D 1621	10
Flexural Strength	C 203	25
Water Absorption	C 272	4.0
Water Vapor Permeance	E 96	5.0
Dimensional Stability	D 2126	2.0 percent
Federal Specification	C578-04	Type I
Max use Temp.	N/A	165 degrees
Flame Spread	E 84	5
Smoke Development	E 84	165
Thermal Performance		
LTR R Value	C-518	2" Material = R 5.4
Warranted R-Value	C-518	2" Material = R 4.3

Insul-Vent Polyisocyanurate Insulation Physical Properties

Properties	ASTM Method	Results
Compressive Strength	D 1621	16
Flexural Strength	C 203	40
Water Absorption	C 272	5.0
Water Vapor Permeance	E 96	5.0
Dimensional Stability	D 2126	4.0
Federal Specification	C 1289	Type II Class I
Max use Temp.	N/A	N/A
Flame Spread	E 84	25
Smoke Development	E 84	165
Thermal Performance		
LTR R Value	C-1289	2" Material = 7.5
Warranted R-Value	C-1289	2" Material = 6.0

Note: Additional R-Value is achieved by adding additional layers of insulation under the **Insul-Vent** board.