# INSULFOAM

## INSULVENT / VENTED NAIL BASE

## PREDICTABLY **CONSISTENT** VALUE.

### Description

InsulVent is an engineered insulation consisting of a closed-cell, lightweight and resilient expanded polystyrene (EPS) bonded to an APA/TECO-rated oriented strand board (OSB) or plywood. The InsulVent foam core comes with standard ½", ¾" or 1" precision-cut channels. Depending on the ventilation requirements, the channels can be cut to the requested size increase or reduce air flow. The foam core is cut from the same high-quality EPS as our InsulRoof roof insulations and, upon request, will meet or exceed the requirements of ASTM C578, Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. The OSB is available in nominal thicknesses of 7/16" and 5/8". The plywood is available in a nominal thickness of 5/8". InsulVent has excellent dimensional stability, compressive strength and water resistance properties.

### Uses

InsulVent is a high-performance nailbase insulation and is well-suited for steep-slope installations. InsulVent is an ideal substrate for shingle, metal, tile and slate roof systems. When shingle manufacturers require additional venting of an insulated substrate, the InsulVent channels (running just below the roof substrate, from the eaves to the ridges) allow heat and moisture to escape. Appropriate venting must be provided at ridges and eaves. InsulVent is well-suited for vaulted and cathedral ceilings. InsulVent is not a structural panel, and is suitable only for installation over fully supported structural decks. Consult the roof manufacturer for additional guidelines.

### Advantages

- **Versatile.** InsulVent is available in a wide variety of thicknesses. The venting channels are also available in varying widths and depths.

- **Environmentally Friendly.** The InsulVent core does not contain any ozone-depleting blowing agents, may contain recycled material, and is 100% recyclable if ever removed or replaced.

- **Stable R-value.** The product's thermal properties will remain stable over its entire service life. There is no thermal drift, so the product is eligible for an Insulfoam 20-year thermal performance warranty.

- **Proven Performance.** EPS has been manufactured using the same chemistry since the mid-1950s, providing proven performance.

- **Water Resistance.** The InsulFoam core does not readily absorb moisture from the environment.

- **Code Approvals.** Insulfoam insulations are recognized by the International Code Council Evaluation Service (ICC-ES), and have numerous Underwriters Laboratory and Factory Mutual Approvals. Please contact your local Insulfoam representative for details.Approvals. Please contact your local Insulfoam
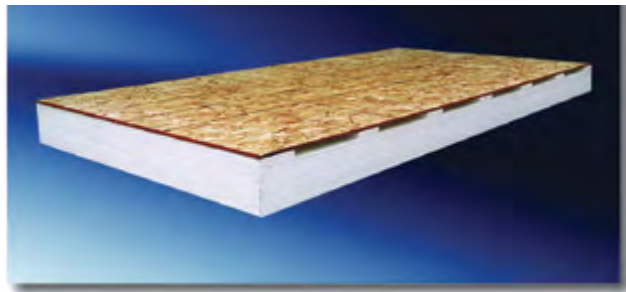
representative for details.

### Sizes

InsulVent is available in 4' x 8' sizes with overall thickness from 3.0" to 7", and is readily available in custom lengths and widths with little to no impact on lead time. The precision–cut channels are a standard ½", ¾" or 1" depth, but are also available in other depths.

### R-values*

| TYPICAL THICKNESS AND THERMAL VALUES FOR INSULVENT | | | | | |
|---|---|---|---|---|---|
| Nominal Thicknesses (including 7/16" OSB) | | 3.0" | 4.0" | 5.0" | 6.0" |
| Depth of Vented Air Space | R-value | | | | |
| ½ inch | @ 75°F | 8.90 | 12.80 | 16.60 | 20.50 |
| | @ 40°F | 9.60 | 13.80 | 17.90 | 22.10 |
| ¾ inch | @ 75°F | 8.20 | 12.10 | 15.90 | 19.80 |
| | @ 40°F | 8.80 | 13.00 | 17.10 | 21.30 |
| 1 inch | @ 75°F | 7.40 | 11.30 | 15.10 | 19.00 |
| | @ 40°F | 8.00 | 12.20 | 16.30 | 20.50 |

\* Values are based on the use of a Type I InsulRoof. Greater R-Values will be obtained if higher density material used.

### Installation Recomendations

- Install InsulVent with venting channels parallel to roof slope

- A minimum of 8 fasteners per 4' x 8' panel should be used when attaching InsulVent to either 22-gauge (min.) metal decks or 1" wood decks. A minimum of 12 fasteners per board should be used when attaching to ½" wood decks. Recommended fastening patterns are available in the Insulfoam Roofing Manual. Contact the roof manufacturer for additional recommendations.

- InsulVent joints should be staggered while ensuring venting channels remain aligned.