

## INSULROOF HD COMPOSITE PREMIUM HIGH-DENSITY LAMINATED INSULATION

### **Description**

InsulRoof HD Composite (InsulFoam HD Composite) is an engineered insulation consisting of a closed-cell, lightweight and resilient expanded polystyrene (EPS) bonded to high-density polyisocyanurate cover board.

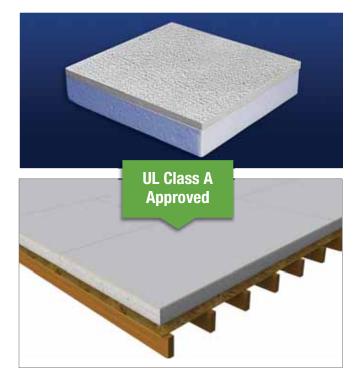
- Achieves UL Class A without gypsum or any other coverboard.
- Continuous above deck satisfies California Title 24 requirements at lower R-value.
- Significant cost savings over other coverboards and traditional insulations.
- Effective application installed above deck, therefore no interruption due to joists.
- Easy to install lightweight, factory bonded panels.
- Compatible with all fully adhered or mechanically attached EPDM, PVC, TPO and CSPE membranes.
- Will meet or exceed the requirements of ASTM C578, the standard specification for rigid, cellular polystyrene thermal insulation.
- Excellent choice for new or retrofit applications where high thermal efficiency and maximum durability are desired.

#### **Uses**

- Mechanically fastened, ballasted or fully adhered EPDM, TPO or PVC.
- Low-sloped, built-up and modified bitumen membrane systems.
- Underlayment for metal roofing systems and some peel-and -stick systems.

#### **Advantages**

- System Enhancment: InsulRoof HD Composite provides additional resistance to misuse, abuse and adverse weather conditions, such as high winds and severe hail.
- Environmentally Friendly: The InsulRoof HD Composite 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.
- Water Resistance: The InsulRoof HD Composite core does not readily absorb moisture from the environment.
- Economical: InsulRoof HD Composite provides significant cost savings over other coverboards and traditional insulations. It is easy to install and lightweight with factory bonded panels.
- Code Approvals: InsulRoof HD Composite achieves UL Class-A
  without gypsum or other coverboards. And because InsulFoam
  HD Composite is a continuous above deck insulation, it satisfies
  California Title 24 requirements at a lower R-value.

#### **Sizes**

InsulRoof HD Composite is available in 4' x 8' sizes with overall thickness from 1.5" to 6", and is available in custom lengths and widths with little to no impact on lead time.



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#### **R-values:**

Typical Thicknesses and Thermal Values for InsulFoam HD Composite						
Nominal Thicknesses (including ½" HD ISO)	1.5"	2.0"	3.0"	4.0"	5.0"	6.0"
R-value @ 25 °F @ 40 °F @ 75 °F	6.85 6.67 6.37	9.02 8.76 8.30	13.38 12.93 12.13	17.72 17.10 15.98	22.08 21.27 19.83	26.42 25.44 23.68

#### **Installation Recommendations**

- Mechanically Attached: InsulRoof HD Composite should be installed using a minimum of 5 fasteners, with insulation plates per 4' x 8' board prior to placement and fastening of roof membrane.
- Adhered: Requires attachment to the deck with EPS compatible roof insulation adhesives or fastened with a minimum of one fastener every two square feet.
- Recommended fastening patterns are available in the Insulfoam Roofing Manual.