



Roof Decks: Nail-Base Underlayment

INSULLAM™

InsulLam™ is a premium composite insulation consisting of a closed-cell, lightweight and resilient expanded polystyrene (EPS) bonded to an APA-rated oriented strand board (OSB) or plywood. The InsulLam foam core is cut from the same high-quality stock as our PBS SIPs, and meets or exceeds the requirements of ASTM C578 Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation. The OSB is available in nominal thicknesses of 7/16", 5/8" and 3/4".

ADVANTAGES

- **System Enhancing:** The use of InsulLam in low-slope applications may make a roof system eligible for an enhanced warranty from the membrane manufacturer. InsulLam can provide additional resistance to misuse, abuse and adverse weather conditions, such as high-winds and hail, than foam insulations alone.
- **Environmentally Friendly:** The core contains no formaldehyde or ozone-depleting CFC's or HCFC's, contains recycled material and is 100% recyclable if ever removed or replaced.
- **Stable R-Value:** Designers are well served knowing that InsulLam's thermal properties have no thermal "drift" and will remain stable over the entire service-life.
- **Proven Performance:** The same fundamental EPS chemistry has been in use since the mid-1950's so the actual performance of the product is well known.



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USES

InsulLam is a high-performance nail-base insulation and substrate for a variety of steep and low slope roofing systems. InsulLam is acceptable for single ply roof applications employing mechanically fastened, ballasted or adhered EPDM, TPO, PVC or CSPE membranes as well as low-sloped built-up and modified bitumen membrane systems. InsulLam is also well suited for vaulted and cathedral ceilings, and it can be used as an underlayment for shingle, tile, slate and metal roofing systems. InsulLam is not a structural panel and is suitable only for installation over structural decks.

Also available as a 2-part InsulLam (one layer of foam only and a top layer of foam and OSB) as is standard in our 4" InsulLam. The advantage of a 2-part product is when two layers are installed on top of one another joints can be staggered helping to eliminate any cold joints.

SIZES

InsulLam is available in 4' x 8' sizes with overall thickness from 1.5" to 7". OSB is available in 7/16", 5/8" and 3/4" thicknesses. InsulLam is readily available in custom lengths and widths with little or no impact on lead time.

R-Values

Typical Thickness & Thermal Value for InsulLam				
Nominal Thickness (including 7/16" OSB)	3.00"	4.00"	5.00"	6.00"
R-Value @ 75°F	10.50	14.40	18.20	22.10
R-Value @ 40°F	11.30	15.50	19.60	23.80

INSTALLATION

RECOMMENDATIONS

- Install InsulLam insulation with side joints continuous and end joints staggered so they are offset by a minimum of 12" from the end joints in adjacent rows.
- A minimum 8 fasteners per 4' x 8' panel should be used when attaching InsulLam to either 22 gauge (min.) metal decks or 1" wood decks. A minimum 12 fasteners per 4' x 8' sheet should be used when attaching to 1/2" wood decks. Contact the PBS Representative in your area for additional recommendations.



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