

Roof Decks: Insulated Nail Base



Roof Decks: Premier Insulated Nail Base Underlayment

Premier's Nail Base 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 thermal foam core is cut from the same high-quality stock as our Premier 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 Premier Insulated Nail Base in low-slope applications may make a roof system eligible for an enhanced warranty from the membrane manufacturer. Premier Insulated Nail Base 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 Premier Insulated Nail Base'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

Premier Insulated Nail Base is a high-performance nail-base insulation and substrate for a variety of steep and low slope roofing systems. It 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. Premier Insulated Nailbase 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. Premier Insulated Nail Base is not a structural panel and is suitable only for installation over structural decks.

Also available as a 2-part Insulated Nail Base (one layer of foam only and a top layer of foam and OSB) as is standard in our 4" product offering. 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

Premier Insulated Nail Base is available in 4' x 8' sizes with overall thickness from 2" to 12". OSB is available in 7/16", 5/8" and 3/4" thicknesses. Premier Nail Base is readily available in custom lengths and widths with little to no impact on lead times.

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 Premier Insulated Nail Base 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 Premier Insulated Nail Base 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 Premier SIPS Representative in your area for additional recommendations.



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