

- DESCRIPTION:** Thermally efficient closed-cell ACFoam[®]-II polyisocyanurate (polyiso) insulation board bonded to min. 7/16" APA/TECO rated OSB or min. 19/32" CDX plywood on the top face. ACFoam[®] Nail Base is offered in a variety of composite thicknesses, providing long-term thermal resistance (LTTR) values from 6.3 to 24.2. Made to order in 4ft x 8ft (1220mm x 2440mm) panels with a nominal thickness of 1.5" to 4.5". Manufactured in accordance with **ASTM C1289, Type V**.
- ADVANTAGES:** ACFoam[®] Nail Base combines the benefits of a nailable roof substrate and thermally efficient polyiso insulation in an easy one-step installation. Available as a special order product with Fire-Treated CDX. ACFoam[®] Nail Base is manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP). ACFoam[®] Nail Base contains between 52.9% and 28.9% recycled materials by weight (*Atlas Technical Bulletin: TB-2*).
- APPLICATION:** Approved for use as a non-structural panel in new and re-roofing applications. ACFoam[®] Nail Base is typically installed over sloped solid-wood and metal roof decks. Deck slope must be appropriate for the type of roof system specified. Typical roof systems include asphalt shingles, standing seam metal, tile and slate. ACFoam[®] Nail Base is not designed or approved for vertical application. The architect, engineer or design professional is responsible for determining the need for and location of a vapor/air retarder.
- INSTALLATION:** *Atlas requires mechanical attachment of Atlas ACFoam[®] Nail Base with Atlas Nail Base Fasteners to approved structural roof decks.* ACFoam[®] Nail Base shall be kept dry before, during and after installation. This product will burn if exposed to an ignition source of sufficient heat and intensity. Do not apply flame directly to ACFoam[®] Nail Base insulation. Refer to product packaging and PIMA Technical Bulletin #109 for storage and handling recommendations. Suitable for multi-layer assemblies when installed over Atlas ACFoam[®]-II, -III or -IV and through-fastened with Atlas Nail Base Fasteners. Refer to *Nailable Insulation Guide* for fastening guidelines and installation recommendations.

Prior to installation, Atlas Roofing Corporation recommends that you consult your local building codes, contract documents, professional engineer, FM Global, Miami-Dade County and membrane manufacturer for additional installation guidelines as well as design enhancements.

PHYSICAL PROPERTIES

(POLYISO ONLY)

| PROPERTY | TEST METHOD | RESULTS |
|--------------------------|--------------------|---|
| DIMENSIONAL STABILITY | ASTM D2126 | < 2% |
| COMPRESSIVE STRENGTH | ASTM D1621 | 20 psi (140 kPa) or 25 psi (172 kPa) |
| WATER ABSORPTION | ASTM C209 & D2842 | < 1.0%, < 3.5% |
| WATER VAPOR TRANSMISSION | ASTM E96 | < 1.0 perm (57.5ng/ (Pa*s*m ²)) |
| PRODUCT DENSITY | ASTM D1622 | Nominal 2.0 pcf (32.04 kg/m ³) |
| FLAME SPREAD | ASTM E84 (10 min.) | 140-60 |
| SMOKE DEVELOPMENT | ASTM E84 (10 min.) | 150-170 |
| TENSILE STRENGTH | ASTM D1623 | > 730 psf (35 kPa) |
| SERVICE TEMPERATURE | - | -100° to +250°F |

¹Numerical ratings are not intended to reflect performance under actual fire conditions. Flame spread index of ≤ 75 and smoke development ≤ 450 meet code requirements for foam plastic roof insulation. Codes exempt foam plastic insulation when used in FM 4450 or UL 1256. Physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

THERMAL DATA

| ² LTTR VALUE | ⁴ COMPOSITE THICKNESS | | ³ RSI | FLUTE SPANABILITY | |
|-------------------------|----------------------------------|-------|------------------|-------------------|--------|
| | in | mm | | in | mm |
| 6.3 | 1.5 | 38.1 | 1.10 | 4.375 | 111.13 |
| 9.1 | 2.0 | 50.8 | 1.60 | 4.375 | 111.13 |
| 12.0 | 2.5 | 63.5 | 2.10 | 4.375 | 111.13 |
| 15.0 | 3.0 | 76.2 | 2.63 | 4.375 | 111.13 |
| 18.0 | *3.5 | 88.9 | 3.16 | 4.375 | 111.13 |
| 21.1 | *4.0 | 101.6 | 3.70 | 4.375 | 111.13 |
| 24.2 | *4.5 | 114.3 | 4.25 | 4.375 | 111.13 |

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770-09. Test samples were third-party selected and tested by an accredited material testing laboratory. ²ACFoam Nail Base calculations based on 7/16" OSB (R-value 0.55) unless noted otherwise. ³RSI is the metric expression of R-value (m² • K/W). ⁴Composite thickness includes wood layer and ACFoam[®]-II polyiso insulation board. *To minimize the effects of thermal bridging, Atlas strongly recommends the use of multiple layers when the total desired or specified R-value requires an insulation thickness greater than 2.7" thick.

- **ASTM C1289, Type V**
- **UL Standard 1256 Classification** Construction No. 120, 123 & 458
- **UL Standard 790 (ASTM E108)** For use with Class A, B or C Shingles, Metal or Tile Roof Coverings
- **UL Standard 263 (ASTM E119)** Fire Resistance Classification
- **FM Standard 4450/4470 Approved (1-90, 1-105)**
Approved for Class 1 Insulated Roof Deck Construction. Refer to FM Approvals[®] RoofNav for Specific System Details
- **IBC Chapter 26 & NBC Sections** on Foam Insulation
- **California State** Insulation Quality Standards and Title 25 Foam Flammability Criteria (License #TC 1231)
- **Miami-Dade County Approved**
- **State of Florida Product Approval** (FL17989)
- **APA/TECO** Rated OSB Nailing Surface
- **U.S. Voluntary Product Standard PS 2** Compliant

Other than the aforementioned representations and descriptions, Atlas Roofing Corporation (hereafter, "Seller") makes no other representations or warranties as to the insulation sold herein. The Seller disclaims all other warranties, express or implied, including the warranty of merchantability and the warranty of fitness for a particular purpose. Seller does, however, have a limited warranty as to the LTTR-Value of the insulation, the terms of which are available upon request from the Seller. Seller shall not be liable for any incidental or consequential damages including but not limited to the cost of installation, removal, repair or replacement of this product. Buyer's remedies shall be limited exclusively to, at Seller's option, the repayment of the purchase price or resupply of product manufactured by Atlas in a quantity equal to that of the nonconforming product. Atlas distributors, agents, salespersons or other independent representatives have no authority to waive or alter the above limitation of liability and remedies.