

### DESCRIPTION

ACFoam<sup>®</sup> Nail Base is a 4' x 8' non-structural panel comprised of thermally efficient closed-cell ACFoam<sup>®</sup>-II or ACFoam<sup>®</sup>-III polyisocyanurate (polyiso) insulation board bonded to min. 3/16" 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 nominal thickness of 1.5" to 4.5". Manufactured in accordance with **ASTM C1289, Type V**.

### APPLICATIONS

Approved for use as a non-structural panel in new and re-roofing applications. ACFoam Nail Base is approved for installation over wood and steel roof decks. Deck slope must be appropriate for the type of roof system specified. Please reference the Atlas Nailable Insulation Guide for approved deck types and fastening requirements. Typical roof systems include asphalt shingles (confirm applicability with shingle manufacturer), standing seam metal, tile and slate. ACFoam Nail Base is not designed or approved for either vertical or adhered applications. The architect, engineer or design professional is responsible for determining the need for and location of an air/vapor 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. Refer to product packaging, Atlas Technical Bulletin #12 and *PIMA Technical Bulletin #109* for storage and handling recommendations. To minimize the effect of thermal bridging, and the impact of moisture/airflow into the roof system, Atlas strongly recommends the ACFoam Nail Base assembly be installed in multiple layers using a base layer(s) of ACFoam roof insulation below the ACFoam Nail Base composite panel and through-fastened with Atlas Nail Base Fasteners. Please reference the ACFoam Nailable Insulation Guide for General Installation, Usage Instructions, and Warranty information for ACFoam products. Prior to installation, Atlas Roofing Corporation recommends, as applicable, you consult with your local building code official(s), contract documents, design professional, and all other relevant parties to ensure appropriate compliance.

### PHYSICAL PROPERTIES

ACFOAM NAIL BASE MEETS OR EXCEEDS THE FOLLOWING PHYSICAL PROPERTIES (POLYISO ONLY)

PROPERTY	TEST METHOD	ASTM C1289 OR CAN/ULC S704 (MIN REQUIREMENTS)
DIMENSIONAL STABILITY	ASTM D2126	<2%
COMPRESSIVE STRENGTH	ASTM D1621	20 psi (140 kPa) or 25 psi (172 kPa)
WATER ABSORPTION	ASTM C209	<1.5%
	ASTM C1763	<1.5%
	ASTM D2842	<3.5%
WATER VAPOR TRANSMISSION	ASTM E96	ACFoam-II <1.5 perm (85.5ng/(Pa.s.m <sup>2</sup> ))
		ACFoam-III <4.0 perm (228.8ng/(Pa.s.m <sup>2</sup> ))
PRODUCT DENSITY	ASTM D1622	Nominal 2.0 pcf (32.04 kg/m <sup>3</sup> )
FLAME SPREAD	ASTM E84/UL723	40-60
SMOKE DEVELOPMENT	ASTM E84/UL723	50-170
TENSILE STRENGTH	ASTM D1623	>730 psf (35 kPa)
SERVICE TEMPERATURE	-	-100° to +250°F

\*Numerical 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. Physical properties listed above are presented as typical average values as determined by referenced ASTM test methods and are subject to nominal manufacturing variations.

### 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 FSC<sup>®</sup> Certified OSB or CDX (Bonded to ACFoam-III) and FRT CDX Plywood.

### CODE COMPLIANCE

- **ASTM C1289, Type V**
- **UL 1256 Classification** Construction No. 120, 123 & 458
- **UL 790 (ASTM E108)** For use with Class A, B or C Shingles, Metal or Tile Roof Coverings
- **UL 263 (ASTM E119)** Fire Resistance Classification
- **FM 4450/4470** Approved (1-90, 1-105) Approved for Class 1 Insulated Roof Deck Construction. Refer to FM Approvals<sup>®</sup> RoofNav for Specific System Details
- **IBC Chapter 26 & NBC** Sections on Foam Insulation
- **California State Thermal Insulation Directory**, T 1231
- **Miami-Dade**, NOA No. 17-1211.05
- **Florida Product Approval**, No. FL17989
- **APA/TECO** Rated OSB Nailing Surface
- **U.S. Voluntary Product Standard** PS 2 Compliant

**THERMAL DATA**

<sup>1</sup> COMPOSITE THICKNESS		<sup>2</sup> LTTR VALUE	<sup>3</sup> RSI	FLUTE SPANABILITY	
in	mm			in	mm
1.5	38.1	6.3	1.10	4.375	111.13
2.0	50.8	9.1	1.60	4.375	111.13
2.5	63.5	12.0	2.10	4.375	111.13
3.0	76.2	15.0	2.63	4.375	111.13
3.5	88.9	18.0	3.16	4.375	111.13
4.0	101.6	21.1	3.70	4.375	111.13
4.5	114.3	24.2	4.25	4.375	111.13

<sup>1</sup>Composite thickness includes 1/16" wood layer and ACFoam polyiso insulation board.

<sup>2</sup>LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. Test samples were third-party selected and tested by an accredited material testing laboratory. ACFoam Nail Base calculations are based on LTTR values and 1/16" OSB (R-value 0.55) unless noted otherwise.

<sup>3</sup>RSI is the metric expression of R-value (m2 • K/W).

To minimize the effects of thermal bridging, and the impact of moisture/airflow into the roof system, Atlas strongly recommends the ACFoam Nail Base assembly be installed in multiple layers using a base layer(s) of ACFoam roof insulation below the ACFoam Nailbase composite panel and through-fastened with Atlas Nail Base Fasteners.

**FOR A COMPLETE LIST OF PRODUCT SIZES, SCAN OR CLICK QR CODE TO DOWNLOAD THE PACKAGE & LOADING GUIDE**



NAILABLE SURFACE OPTIONS	AVAILABLE THICKNESSES		
OSB	7/16"	5/8"	3/4"
CDX	19/32"	5/8"	3/4"
FRT CDX (SPECIAL ORDER)	19/32"	5/8"	3/4"
FSC CERTIFIED OSB (SPECIAL ORDER)	7/16"	5/8"	3/4"
FSC CERTIFIED CDX (SPECIAL ORDER)	19/32"	5/8"	3/4"

**WARRANTY**

ACFoam Nail Base is backed by a Limited 20-Year Thermal Warranty.

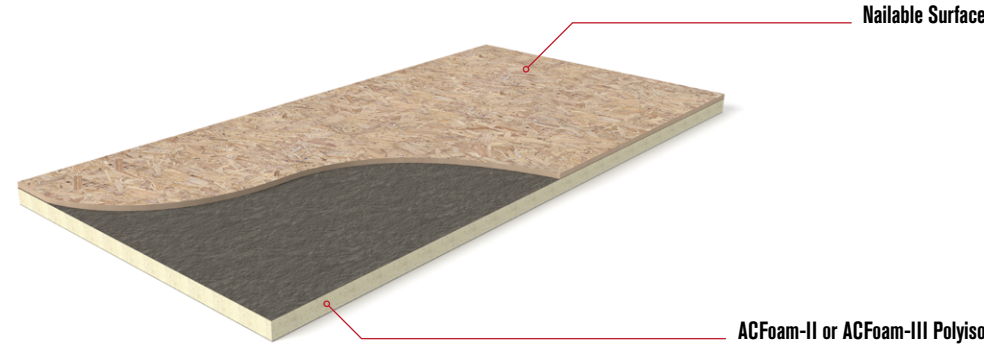
For complete terms and conditions, visit [roof.atlasrwi.com/warranty](http://roof.atlasrwi.com/warranty)

**SUSTAINABILITY**

Atlas polyiso insulation is manufactured using environmentally responsible processes and formulations.

- Contains no CFCs, HCFCs or HFCs
- Zero Ozone Depletion Potential (ODP)
- Negligible Global Warming Potential (GWP)
- GREENGUARD Gold Certification
- Contributes to LEED credits

For more information visit [roof.atlasrwi.com/about-roof/sustainability](http://roof.atlasrwi.com/about-roof/sustainability)



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.

