ACFoam® Supreme NH
Foil Faced Roof Insulation

PRODUCT DATA SHEET

DESCRIPTION

Available in both flat and tapered panels. Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to reflective tri-laminate foil facers on both sides. ACFoam® Supreme NH is offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 5.7 to 26.8. Available in 4ft x 8ft (1220mm x 2440mm) and 4ft x 4ft (1220mm x 1220mm) panels. Manufactured in accordance with **ASTM C1289, Type I, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi) and CAN/ULC 704.1, Type 2, Class 1 or Type 3, Class 1.**

APPLICATIONS

Manufactured and tested for use in new and re-roofing applications. ACFoam Supreme NH roof insulation shall be installed over the roof deck. ACFoam Supreme NH is typically specified for cold storage and metal building applications. ACFoam Supreme NH is used in standing seam metal roof systems as well as mechanically attached and ballasted single-ply membrane systems. Refer to roof cover manufacturer, FM Approvals® RoofNav and UL Product iQ® for additional application details. Should not be used in hot asphalt, torch applied or adhered roofing systems.

INSTALLATION

ACFoam Supreme NH 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 Supreme NH insulation. 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 ACFoam Supreme NH be installed in multiple layers. Please refer to our website for more information. Typical field fastening requirements can be obtained from roof cover manufacturer and/or, FM Approvals Roof Nav, or FM Global Property Loss Prevention Data Sheet 1-29.

Prior to installation, Atlas 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.

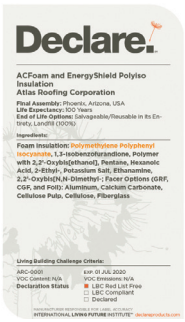
PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	ASTM C1289 OR CAN/ULC 704.1 (MIN REQUIREMENTS)
DIMENSIONAL STABILITY (LENGTH AND WIDTH)	ASTM D2126	<2%
COMPRESSIVE STRENGTH	ASTM D1621	20 psi (140 kPa) or 25 psi (172 kPa)
WATER ABSORPTION	ASTM C209 ASTM C1763 ASTM D2842	<1.5% <1.5% <3.5%
WATER VAPOR TRANSMISSION	ASTM E96	<1.5 perm (85.5ng/(Pa▪s▪m²))
PRODUCT DENSITY	ASTM D1622	Nominal 2.0 pcf (32.04 kg/m³)
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.

CODE COMPLIANCE

- **ASTM C1289 Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)**
- **CAN/ULC 704.1, Type 2, Class 1 or Type 3, Class 1**
- **CCMC No. 12422-L**
- **UL 1256 Classification Construction** No. 120, 123 & 292
- **UL 790 (ASTM E108)** Roofing Systems Classification
- **UL 263 (ASTM E119)** Fire Resistance Classification
- **FM 4450/4470** Refer to FM Approvals® 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
- **GREENGUARD GOLD Certified**
- **UL 2824** Resistant to Mold Growth as Validated by UL Environment
- **Living Building Challenge Red List Free,** with Declare Label and Product Database Listing



THERMAL DATA

THICKNESS	THERMAL RESISTANCE		PIECES PER UNIT	SQUARE FEET PER UNIT		TRUCKLOAD QUANTITIES (SQUARES)	AVERAGE WEIGHT (LB/SF)	RECYCLED CONTENT		
	AVERAGE [1]LTTR VALUE	[2]RSI		4×8	4×4			POST CONSUMER	PRE CONSUMER	TOTAL
1.0″	5.7	1.00	48	1536	768	368.64	0.170	_	11.5%	11.5%
1.5″	8.6	1.50	32	1024	512	245.76	0.238	_	12.3%	12.3%
2.0″	11.4	2.01	24	768	384	184.32	0.305	_	12.8%	12.8%
2.5″	14.4	2.53	19	608	304	145.92	0.373	_	13.1%	13.1%
3.0″	17.4	3.06	16	512	256	122.88	0.440	_	13.3%	13.3%
3.5″	20.5	3.60	13	416	208	99.84	0.508	_	13.5%	13.5%
4.0″	23.6	4.15	12	384	192	92.16	0.575	_	13.6%	13.6%

FOR A COMPLETE LIST OF PRODUCT SIZES, REFERENCE ACFOAM PACKAGE AND LOADING GUIDE.

[1]CAN/ULC-770 does not apply to impermeably-faced foam plastic insulation. Atlas has chosen to establish an (1)LTTR value for ACFoam® Supreme NH based on LTTR test experience with permeably-faced products.
[2]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 Supreme NH insulation be installed in multiple layers.*

WARRANTY

ACFoam Supreme NH is backed by a Limited 20-Year Thermal Warranty. For complete terms and conditions, visit our website.

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.