

ACFOAM®-II INSULATION

PRODUCT DATA SHEET

DESCRIPTION: Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, fiber-reinforced organic felt facers. ACFoam®-II 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 II, Class 1, Grade 2 (20 psi)

or Grade 3 (25 psi) and CAN/ULC-S704 Type 2, Class 3 or Type 3, Class 3.

ADVANTAGES: ACFoam®-II 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®-II contains between 52.9% and 27.6% recycled materials by weight (Atlas Technical

Bulletin: TB-2).

APPLICATION: Manufactured and tested for use in new and re-roofing applications. ACFoam®-II is used in built-up (BUR), modified bitumen, metal, ballasted

single-ply, mechanically attached single-ply and adhered single-ply roofing systems. These roofing systems depend on proper installation for

successful performance. Refer to FM Approvals® RoofNav and UL Online Certifications Directory for additional application details.

INSTALLATION: ACFoam®-II 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®-II insulation. Refer to PIMA Technical Bulletin 109: Storage and Handling Recommendations for Polyiso Roof Insulation. An offset or staggered multi-layer application of ACFoam® is strongly recommended when the total insulation thickness exceeds 2.7" (Atlas Technical Bulletin: TB-5). Typical field fastening

requirements can be obtained from membrane system manufacturer or FM Global Property Loss Prevention Data Sheets 1-29.

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

PHYSICAL PROPERTIES

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 < 1.5%, < 3.5% WATER VAPOR TRANSMISSION ASTM F96 $< 1.5 \text{ perm } (85.5 \text{ng} / (Pa \cdot s \cdot m^2))$ PRODUCT DENSITY ASTM D1622 Nominal 2.0 pcf (32.04 kg/m3) 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

'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. 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

LTTR VALUE	THICKNESS		2001	FLUTE SPANABILITY	
	in	mm	² RSI	in	mm
5.7	1.0	25.4	1.00	2.625	66.68
8.6	1.5	38.1	1.50	4.375	111.13
11.4	2.0	50.8	2.01	4.375	111.13
14.4	2.5	63.5	2.53	4.375	111.13
17.4	*3.0	76.2	3.06	4.375	111.13
20.5	*3.5	88.9	3.60	4.375	111.13
23.6	*4.0	101.6	4.15	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. The LTTR results were reviewed by FM Global and certified by the PIMA Quality Mark Program. 2 RSI is the metric expression of R-value ($m^2 \cdot K/W$). * To minimize the effects of thermal bridging, Atlas strongly recommends the use of multiple layers when the total desired or specified R-value reasires an insulation thickness areater than 2.7" thick.

- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- CAN/ULC-S704, Type 2, Class 3 or Type 3, Class 3
- CCMC No. 12464-L
- UL Certified for Canada— Insulated Roof Deck Assemblies Construction No. C38 and 52. Meet CAN/ULC-S126, CAN/ULC-S101 and CAN/ULC-S107
- UL Standard 1256 Classification Construction No. 120, 123 & 292
- UL Standard 790 (ASTM E108) Roofing Systems Classification
- UL Standard 263 (ASTM E119) Fire Resistance Classification

- UL Standard 1897 Uplift Resistance
- FM Standard 4450/4470 Approved
 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 (FL6796)

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