



ACFoam[®] Supreme

Foil Faced Roof Insulation

DESCRIPTION: Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to reflective tri-laminate foil facers. ACFoam[®] Supreme 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-S704 Type 2, Class 1 or Type 3, Class 1.**

ADVANTAGES: Reinforced foil facers provide increased dimensional stability as well as decreased potential for water absorption and water vapor transmission. ACFoam[®] Supreme is manufactured using GFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP). Not designed as a substitute for a vapor/air retarder. ACFoam[®] Supreme contains between 13.7% and 11.5% recycled materials by weight (*Atlas Technical Bulletin: TB-2*).

APPLICATION: Manufactured and tested for use in new and re-roofing applications. ACFoam[®] Supreme is typically specified for cold storage and metal building applications. Used in metal roof systems as well as mechanically attached and ballasted single-ply membrane systems. Refer to FM Approvals[®] RoofNav and UL Online Certifications Directory for additional application details. Should not be used in hot asphalt, torch applied or adhered systems.

INSTALLATION: ACFoam[®] Supreme 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 insulation. Refer to product packaging and *PIMA Technical Bulletin #109* for storage and handling recommendations. **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, Miami-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	< 0.5%, ≤ 3.5%
WATER VAPOR TRANSMISSION	ASTM E96	< 0.3 perm (17.2ng/(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	THICKNESS		³ RSI	FLUTE SPANABILITY	
	in	mm		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

CAN/ULC-S770-09 does not apply to impermeably-faced foam plastic insulation. Atlas has chosen to establish an ²LTTR value for ACFoam[®] Supreme based on LTTR test experience with permeably-faced products. ³RSI is the metric expression of R-value (m² • 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 requires an insulation thickness greater than 2.7" thick.*

- **ASTM C1289, Type I, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)**
- **CAN/ULC-S704, Type 2, Class 1 or Type 3, Class 1**
- **CCMC No. 12422-L**
- **UL Standard 790 (ASTM E108) Roofing Systems Classification**
- **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 #T 1231)**
- **Miami-Dade County Approved**
- **State of Florida Product Approval (FL17989)**

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