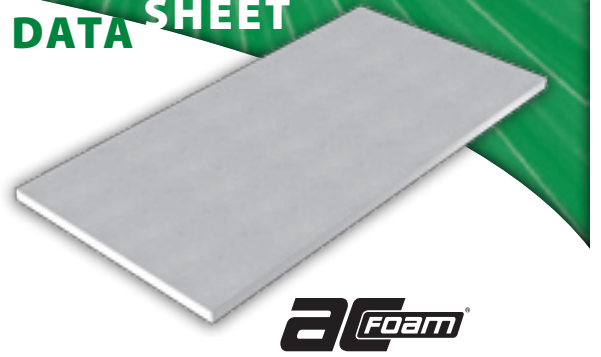


ACFOAM® RECOVER BOARD

DATA SHEET



⇒ ACFOAM® RECOVER BOARD PRODUCT DESCRIPTION AND RECOMMENDED USES

ACFoam® Recover Board

- Specified for use with single-ply systems as well as cold applied modified bitumen and cold-applied BUR systems.
- Provides an improved substrate for the roofing membrane in recover applications. Check with the membrane manufacturer regarding approvals of this product as a membrane substrate.
- Covered on both major sides with heavy coated-glass facers.
- Do not use Recover Board with hot-applied roofing systems.
- CFC, HCFC, and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and zero (negligible) global warming potential (GWP).

⇒ INSTALLATION

Before installation begins, the roof deck should be firm, well attached, even, clean and dry. Proper attachment of the insulation is necessary to prevent roof failures. Atlas is not responsible for any damage caused by improper attachment. ACFoam® products can be attached to decks that are approved by FM Approvals and local codes. Atlas is not responsible for determining the suitability of the deck.

ACFoam® shall be kept dry before, during and after installation. Install only as much ACFoam® as can be covered the same day with completed roofing.

Although ACFoam® has been designed to withstand normal foot traffic, protection from damage by construction traffic and/or abuse is extremely important. Roof surface protection such as plywood shall be used in areas where storage and staging are planned and heavy or repeated traffic is anticipated during or after installation. Refer to Atlas Technical Bulletin #00-01.

ACFoam® Recover Board available in 4' x 4' (1220mm x 1220mm) and 4' x 8' (1220mm x 2440mm) panels.

⇒ MECHANICAL ATTACHMENT

Mechanical fastening is the recommended method of attachment over nailable decks. Fastener frequency and spacing for steel, wood, cast-in-place structural concrete and poured gypsum decks are covered in the current Atlas Catalog according to the membrane system. Refer to the current FM Loss Prevention Data Sheet 1-29 for special considerations regarding perimeter and corners of the roof. Go to www.atlasroofing.com for typical fastening patterns for field area of the roof.

For further recommendations regarding attachment of insulation to lightweight insulating concrete decks or poured gypsum concrete decks, follow the instructions outlined in the *NRCA Roofing Manual, Membrane Roof Systems 2007*. ACFoam® products shall not be adhered directly to these decks by any bitumen or adhesive attachment method.

⇒ ADHESIVE ATTACHMENT

For installing ACFoam® to a structural concrete deck, adhesive/bitumen attachment is the recommended method. When using hot bitumen on concrete decks, priming is necessary. Precautions must be taken to ensure that concrete decks have fully hydrated and do not continue to release moisture. Insulation must remain dry before, during, and after installation. Precautions must also be taken to prevent bitumen drippage. When using hot-applied bitumen for attachment of insulation to structural concrete decks and successive insulation layers, the temperature of the bitumen should be approximately 50°F below the interply hand mopping EVT. The deck must be dry and care must be taken to apply the bitumen in sufficient quantity to totally cover the available deck surface when applied at the correct temperature (390°F). To ensure embedment, the board must also be "stepped in" at several points while the bitumen is still hot enough to allow positive attachment. The recommended ACFoam® insulation size for hot bitumen attachment is 4' x 4'.

When using polyurethane adhesives or cold applied asphalt adhesive, follow the adhesive manufacturer's installation recommendation.

⇒ CODES AND COMPLIANCES

- Federal Specification HH-I-1972/GEN and HH-I-1972/3 have been cancelled
- Miami-Dade County, Florida Product Control No. 08-0111.01
- State of Florida Product Approval #FL6796
- IBC, NBC, UBC, and SBC Sections on Foam Insulation (Chapter 26)

FM Standard 4450/4470 Approval

ACFoam® Recover Board is approved for Class 1 insulated steel, wood, concrete and gypsum roof deck construction for 1-60 and 1-90 Windstorm Classifications. Refer to FM Approvals RoofNav for details on specific systems.

UL Standard 790 (ASTM E 108) Classification

Class A with most roof membrane systems See UL Roofing Materials & Systems Directory.

Recover Board is covered by one or more claims of Patent #5,001,005

⇒ TECHNICAL DATA

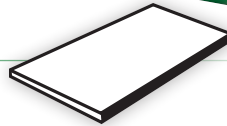
⇒ OTHER DATA

LTTR VALUE	NOMINAL THICKNESS			METAL DECK FLUTE SPANABILITY		
	RSI**	in	mm	PCS/PKG	in	mm
3.0	.53	.5	12.70	46	4.375	111.13
4.5	.79	.75	19.05	31	4.375	111.13
6.0	1.06	1.0	25.40	23	4.375	111.13

LTTR (long-term thermal resistance) values were determined in accordance with CAN/ULC-S770 and ASTM C 1289, Annex A1. All test samples were third-party selected and tested by an accredited material testing laboratory.

** RSI is the metric expression of LTTR (m² · K/W)

ACFOAM® RECOVER BOARD



DATA SHEET

→ VAPOR/AIR RETARDERS

Moisture vapor tends to migrate from warmer to cooler areas. In building construction, vapor/air retarders are used to inhibit or block the passage of warm, moisture laden air into walls or roofing assemblies. To determine whether a vapor/air retarder is necessary, calculations based on interior relative humidity, interior temperature, and the outside design temperature must be performed. Consult the *NRCA Roofing Manual (Membrane Roof Systems)* for more information regarding vapor/air retarders and dew point calculations.

Special consideration should be given to construction generated moisture as well. For example, construction-generated moisture will be released when concrete floor slabs are placed after the roof has been installed, which can drive large quantities of moisture into the roof system. Therefore, Atlas is not responsible for damage to the insulation when exposed to construction-generated moisture or from moisture released from building materials. Refer to the *NRCA Roofing Manual (Membrane Roof Systems)* for recommendations for the use of a vapor retarder when construction-generated moisture is present. Refer to Atlas Technical Bulletin #00-01. **Consult vapor/air retarder manufacturer for recommended applications and details.**

→ STORAGE

Factory applied packaging is intended only for protection during transit. When stored outdoors or on the job site, the insulation should be stacked on pallets at least four inches above ground level and completely covered with a weatherproof covering such as a tarpaulin. The temporary factory-applied packaging should be slit or removed to prevent accumulation of condensation. Roof insulation which has become wet or damaged should be removed and replaced with solid, dry insulation.

→ TECHNICAL ASSURANCE

Atlas provides a full-service Technical Department with a LEED Accredited Professional (AP), Registered Roof Consultant (RRC), Construction Documents Technologists (CDT) and Certified Construction Product Representatives (CCPR) on staff.

→ WARNING - DO NOT LEAVE EXPOSED

This product is a polyiso organic plastic foam and will burn if exposed to an ignition source of sufficient heat and intensity, or open flame, such as a welder's torch. Like other organic materials, this product will release smoke if ignited. Do not apply flame directly to ACFoam® roof insulations. This product should be used only in strict accordance with Atlas recommended uses and application instructions.

→ LIMITATION OF LIABILITY

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 LTR-Value of the insulation, the terms of which are available upon request from the Seller.

The Seller shall not be liable for any incidental or consequential damages including the cost of installation, removal, repair or replacement of this product. The 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.

→ TYPICAL PHYSICAL PROPERTIES (FOAM PORTION)

PROPERTY	TEST METHOD	TYPICAL RESULTS
Dimensional Stability (Length and Width)	ASTM D 2126	< 2 %
Compressive Strength (10% Deformation)	ASTM D 1621	20 psi (138 kPa) or 25 psi (172 kPa)
Water Absorption	ASTM C 209, ASTM D 2842	< 1 %, < 3.5 %
Moisture Vapor Transmission	ASTM E 96	< 1.0 perm, (85.0ng/ (Pa•s•m2))
Product Density	ASTM D 1622	Nominal 2.0 pcf (32.04 kg/m3)
Flame Spread	ASTM E 84 (Full 10 min. Test)	40-60*
Smoke Developed	ASTM E 84 (Full 10 min. Test)	50-170*
Tensile Strength	ASTM D 1623	>730 psf (35 kPa)
Service Temperature	-	-40 to 200° F**

*The numerical ratings as determined by ASTM Test Method E 84 are not intended to reflect hazards presented by this or any other material under actual fire conditions. A flame spread index of 75 or less and smoke development of 450 or less meet code requirements regarding flame spread and smoke development for foam plastic roof insulation. However, the codes exempt foam plastic insulation when used in roof deck constructions that comply as an assembly with FM 4450 or UL 1256 (see IBC, NBC, UBC, and SBC Sections on Foam Plastic Insulation (Chapter 26)). Smoke development does not apply to roofing.

**ASTM C 1289 Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board.

The physical properties listed above are presented as typical average values as determined by accepted ASTM test methods and are subject to normal manufacturing variation.

SALES OFFICES

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