



ACFoam[®]-HD CoverBoard

High Density Roof CoverBoard Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to ACFoam[®]-III inorganic coated glass facers.
- Manufactured in accordance with ASTM C1289, Type II, Class 4, Grade 1 (80 psi (551 kPa) minimum, up to 110 (758 kPa) compressive strength).
- Available in 0.5" thick 4ft×8ft (1220mm×2440mm) and 0.5" thick 4ft×4ft (1220mm×1220mm) panels.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- Contains 7.4% recycled materials by weight (Atlas Technical Bulletin: TB-2).
- Recognized by the GREENGUARD Environmental Institute as resistant or highly resistant to mold growth based on independent testing using GREENGUARD Test Method GGTM.P040 (ASTM D6329) for microbial resistance.
- Typically specified for use in new and re-roofing applications. ACFoam-III HD CoverBoard is used in 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.
- Field testing has confirmed significantly more efficient use of solvent-based adhesives than with organic faced insulations.



CODES AND COMPLIANCES

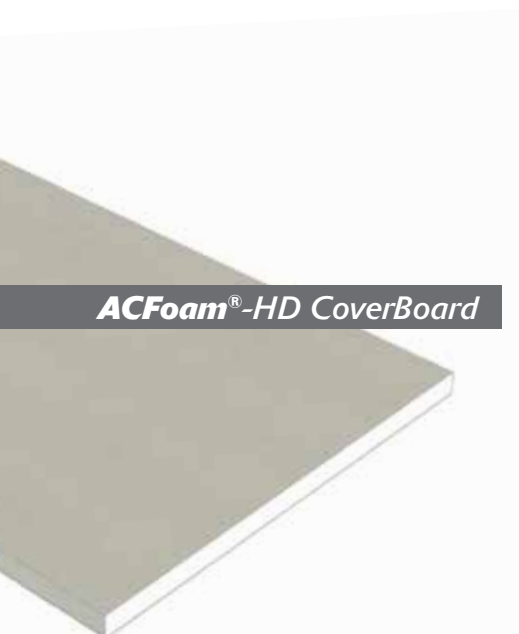
- **ASTM C1289, Type II, Class 4, Grade 1 (110 psi (758 kPa), maximum compressive strength)**
- **FM Standard 4450/4470 Approved** Refer to FM Approvals[®] RoofNav for Specific System Details
- **UL Certified for Canada**
- **UL Standard 1256 Classification** – Construction No. 120, 123 & 292
- **UL Standard 790 (ASTM E108) Roofing Systems Classification**
- **UL Standard 263 (ASTM E119) Fire Resistance Classification**
- Resistant to Mold Growth as Validated by the **GREENGUARD Environmental Institute (ASTM D6329)**
- **FM 4473 rated SH-1** for Severe Hail
- **UL Class B** Over Combustible Decks with UL Classified Membranes
- **IBC Chapter 26 & NBC Sections** on Foam Insulation
- **State of Florida Product Approval** (FL17989)



PHYSICAL PROPERTIES

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.

PROPERTY	TEST METHOD	RESULTS
Dimensional Stability	ASTM D2126	< 0.5%
Compressive Strength	ASTM D1621	Grade 1 (110 psi (758 kPa) maximum compressive strength)
Water Absorption	ASTM C209	< 3.0%
Water Vapor Transmission	ASTM E96	< 1.5 perm (85.0ng/ (Pa*s*m ²))
Flame Spread	ASTM E84 (10 min.)	¹ 40-60
Smoke Development	ASTM E84 (10 min.)	¹ 50-170
Tensile Strength	ASTM D1623	> 2000 psf (95 kPa)
Service Temperature	-	-100° to +250°F



ACFoam[®]-HD CoverBoard

THERMAL DATA

THICKNESS		THERMAL DATA		PCS/PKG
IN	MM	R-VALUE	² RSI	
0.5	12.7	2.5	0.44	42

LTTR (long term thermal resistance) values were determined by ASTM test method C518 at 75°F mean temperature. ²RSI is the metric expression of R-value (m² • K/W).

FASTENING GUIDELINES

THICKNESS	FM RATING	FIELD FASTENERS PER 4' X8' BOARD
0.5"	1-75	12
	1-90	16

Tested ratings refer to selected adhered membranes.





ACFoam[®]-HD CoverBoard-FR

High Density Roof CoverBoard Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to ACFoam[®]-III inorganic coated glass facers.
- Available in 0.625" thick 4ft×8ft (1220mm×2440mm) and 0.625" thick 4ft×4ft (1220mm×1220mm) panels.
- ACFoam[®]-HD CoverBoard-FR achieves a UL Class A rating over combustible decks with any UL classified EPDM, PVC or TPO membrane that is currently classified to be used with ACFoam[®]-II or ACFoam-III insulations.
- Manufactured and tested for use in new and re-roofing applications. ACFoam-HD CoverBoard-FR is used in mechanically attached single-ply, fully adhered single-ply and self-adhered "peel & stick" 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 and approvals.
- Incline is limited to the current rating of the UL Classified EPDM, PVC or TPO membranes with ACFoam-II or ACFoam-III insulations but cannot exceed 1/2".
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).



CODES AND COMPLIANCES

- **ASTM C1289, Type II, Class 4, Grade 1**
- **FM Standard 4450/4470 Approved** Refer to FM Approvals[®] RoofNav for Specific System Details
- **UL Standard 790 (ASTM E108)** Roofing Systems Classification
- **UL Class A** Over Combustible Decks with UL Classified EPDM, PVC and TPO Membranes
- Over Combustible Decks with UL Classified EPDM, PVC and TPO Membranes
- **IBC Chapter 26 & NBC** Sections on Foam Insulation

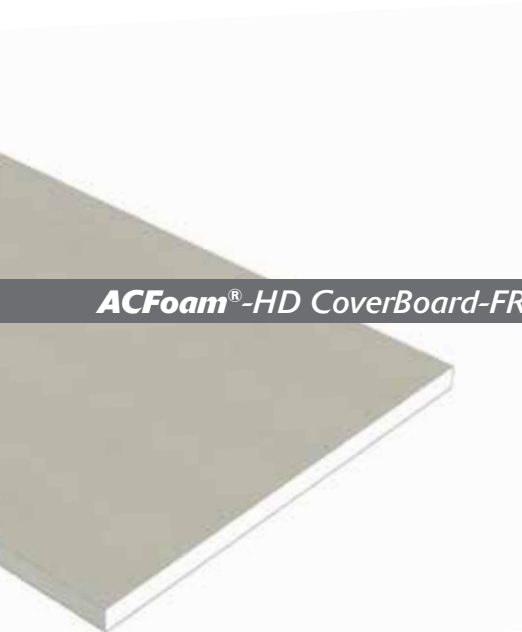


PHYSICAL PROPERTIES

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.

²(80 psi (551 kPa) minimum, up to 110 psi (758 kPa))

PROPERTY	TEST METHOD	RESULTS
Dimensional Stability	ASTM D2126	T < 4.0%, L & W < 1.0%
Compressive Strength	ASTM D1621	² Grade 1
Water Absorption	ASTM C209	< 4.0%
Water Vapor Transmission	ASTM E96	< 1.5 perm (85.0ng / (Pa*s*m ²))
Flame Spread	ASTM E84 (10 min.)	¹ < 75
Smoke Development	ASTM E84 (10 min.)	¹ < 450
Tensile Strength	ASTM D1623	> 2000 psf (95 kPa)
Service Temperature	-	-100° to +250°F



ACFoam[®]-HD CoverBoard-FR

THERMAL DATA

THICKNESS		THERMAL DATA		PCS/PKG
IN	MM	³ R-VALUE	⁴ RSI	
0.625	15.9	2.5	0.44	36

³Determined by ASTM test method C518 at 75°F mean temperature.

⁴RSI is the metric expression of R-value (m² • K/W).

FASTENING GUIDELINES

THICKNESS	FM RATING	FIELD FASTENERS PER 4'x8' BOARD
0.625"	1-75	12
	1-90	16

Tested ratings refer to selected adhered membranes.

