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THE LEADER IN POLYISO AND FACER TECHNOLOGY.
From business districts to warehouses and manufacturing facilities across North America, Atlas ACFoam® roofing products can be trusted to perform across all your installations.
Atlas Roofing Corporation is an industry leader in polyiso and facer technology. Atlas has invested in its people and technology to enable the highest level of support and customer service across the industry. Because of this commitment, Atlas products come with the peace of mind associated with reliable, consistent engineering, delivered when and where they are needed.

Originating as an asphalt shingle manufacturing company in 1982, today Atlas continues to deliver superior customer service with every job. As Atlas has grown, so has the collective knowledge of the people working there. Atlas is able to share advancements in building science knowledge in important ways, so your projects are energy efficient, cost effective and profitable.

Focusing on a full line of flat, tapered and nailable composite polyiso roof insulation products, Atlas has eight state of the art manufacturing facilities strategically located throughout North America. Atlas Roofing Corporation proudly supplies ACFoam® polyiso roof insulation as part of roofing systems around the world. So when Atlas says it is Connecting Function with Facility™ it means that you get a partner that helps with all the technical details so your jobs are easier and run more smoothly than with any other polyiso manufacturer.

PUT OUR PRODUCTS TO WORK FOR YOU.
ACFoam®-II
GRF Roof Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, fiber-reinforced organic felt facers.
- Offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 4.3 to 26.8.
- Flat insulation available in 4ft×4ft (1220mm×1220mm) and 4ft×8ft (1220mm×2440mm) panels.
- Tapered insulation available in 4ft×4ft (1220mm×1220mm) panels with ¼” (3mm), ⅛” (6mm) and ½” (12mm) per foot slope.
- Typically specified for use in new and re-roofing applications. Flat and Tapered 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.

- 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 between 59% and 27.6% recycled materials by weight (Atlas Technical Bulletin: TB-2).
- Also available as a Non-Hal (NH) product. See page 33 for more details.

CODES AND COMPLIANCES
- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25psi)
- 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 (T 1231)
- Miami-Dade County Approved
- State of Florida Product Approval (FL17989)
LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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.

2RSI 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.

**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.

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
</tr>
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<tbody>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D2126</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D1621</td>
<td>20 psi (140 kPa) or 25 psi (172 kPa)</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C209 &amp; D2842</td>
<td>&lt; 1.5%, &lt; 3.5%</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96</td>
<td>&lt; 1.5 perm (85.5 m²/(Pa • s • m²))</td>
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<tr>
<td>Product Density</td>
<td>ASTM D1622</td>
<td>Nominal 2.0 psf (32.04 kg/m²)</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E84 (10 min.)</td>
<td>40–60</td>
</tr>
<tr>
<td>Smoke Development</td>
<td>ASTM E84 (10 min.)</td>
<td>50–170</td>
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<tr>
<td>Tensile Strength</td>
<td>ASTM D1623</td>
<td>&gt; 730 psf (35 kPa)</td>
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<td>Service Temperature</td>
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<td>-100° to +250°F</td>
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### THERMAL DATA (FLAT)

<table>
<thead>
<tr>
<th>LTR VALUE</th>
<th>THICKNESS</th>
<th>2RSI</th>
<th>FLUTE SPANABILITY</th>
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<td></td>
<td>IN</td>
<td>MM</td>
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<td>20.5</td>
<td>*3.5</td>
<td>88.9</td>
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<td>23.6</td>
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### THERMAL DATA (TAPERED)

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<th>THICKNESS</th>
<th>SLOPE</th>
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<td>LTR</td>
<td>2RSI</td>
<td>IN</td>
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<tr>
<td>AA</td>
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<td>1.25</td>
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<td>B</td>
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<td>1.76</td>
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<td>C</td>
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<td>Q</td>
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<td>1.50</td>
<td>0.5–2.5</td>
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ACFoam®-III
CGF Roof Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers.
- Offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 4.3 to 26.8.
- Flat insulation available in 4ft×4ft (1220mm×1220mm) and 4ft×8ft (1220mm×2440mm) panels.
- Tapered insulation available in 4ft×4ft (1220mm×1220mm) panels with ⅛” (3mm), ¼” (6mm) and ½” (12mm) per foot slope.
- Typically specified for use in new and re-roofing applications. Flat and Tapered ACFoam-III 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.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- 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.
- Field testing has confirmed significantly more efficient use of solvent-based adhesives than with organic faced insulations.
- Also available as a Non-Hal (NH) product. See page 33 for more details.
LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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.

2RSI 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.

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<td>ASTM E96</td>
<td>&lt; 4.0 perm (228.8ng/ (Pa•s•m²))</td>
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<tr>
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**Physical Properties**

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<td>A</td>
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<tr>
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<tr>
<td>X</td>
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<tr>
<td>Y</td>
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<tr>
<td>Q</td>
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</table>

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.
ACFoam® Supreme
Foil Faced Roof Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to reflective tri-laminate foil facers.
- Offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 5.6 to 26.8.
- Available in 4ft×4ft (1220mm×1220mm) and 4ft×8ft (1220mm×2440mm) 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).
- 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.
- Also available as a Non-Hal (NH) product. See page 34 for more details.

CODES AND COMPLIANCES
- 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-R
- UL Standard 790 (ASTM E108)
- 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 (T 1231)
- Miami-Dade County Approved
- State of Florida Product Approval (FL 17989)
CAN/ULC-S770 does not apply to impermeably-faced foam plastic insulation. Atlas has chosen to establish an LTTR value for ACFoam® Supreme based on LTTR test experience with permeably-faced products.

2RSI 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.
ACFom®-HD CoverBoard
High Density Roof CoverBoard Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to ACFom®-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).
- 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. ACFom-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**

**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•m²))
Flame Spread | ASTM E84 (10 min.) | 40–80
Smoke Development | ASTM E84 (10 min.) | 50–170
Tensile Strength | ASTM D1623 | > 2000 psi (95 kPa)
Service Temperature | – | -100° to +250°F

**THERMAL DATA**

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²RSI is the metric expression of R-value (m²•K/W).

**FASTENING GUIDELINES**

<table>
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<th>THICKNESS</th>
<th>FM RATING</th>
<th>FIELD FASTENERS PER 4' X 8' BOARD</th>
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<td>1–90</td>
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Tested ratings refer to selected adhered membranes.

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.
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 ½”.

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-HD CoverBoard-FR

**PHYSICAL PROPERTIES**

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<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
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<tbody>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D2126</td>
<td>T&lt;4.0%, L &amp; W&lt;1.0%</td>
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<td>Compressive Strength</td>
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<td>Water Absorption</td>
<td>ASTM C209</td>
<td>&lt; 4.0%</td>
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<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96</td>
<td>&lt; 1.5 perm (85.0ng/ (Pa•s•m²)</td>
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<td>Flame Spread</td>
<td>ASTM E84 (10 min.)</td>
<td>1&lt;75</td>
</tr>
<tr>
<td>Smoke Development</td>
<td>ASTM E94 (10 min.)</td>
<td>1 &lt;450</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D1623</td>
<td>&gt; 2000 psf (95 kPa)</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>–</td>
<td>-100° to +250°F</td>
</tr>
</tbody>
</table>

**THERMAL DATA**

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>THERMAL DATA</th>
<th>PCS/ PKG</th>
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<tbody>
<tr>
<td>IN</td>
<td>MM</td>
<td>R-VALUE</td>
</tr>
<tr>
<td>0.625</td>
<td>15.9</td>
<td>2.5</td>
</tr>
</tbody>
</table>

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)

**FASTENING GUIDELINES**

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>FM RATING</th>
<th>FIELD FASTENERS PER 4’×8’ BOARD</th>
</tr>
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<tbody>
<tr>
<td>0.625”</td>
<td>1-75</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>1-90</td>
<td>16</td>
</tr>
</tbody>
</table>

Tested ratings refer to selected adhered membranes.
ACFoam® - Recover Board

Roof Recover Board Insulation

- Closed-cell polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers.
- Available in 0.5”, 0.75” & 1.0” thick 4ft×4ft (1220mm×1220mm) and 4ft×8ft (1220mm×2440mm) 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).
- 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.
- Field testing has confirmed significantly more efficient use of solvent-based adhesives than with organic faced insulations.
- Typically specified for use in recover applications. ACFoam Recover Board is used in cold-applied built-up (BUR), cold applied modified bitumen, 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.
- Also available as a Non-Hal (NH) product. See page 34 for more details.

**CODES AND COMPLIANCES**

- ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- CAN/ULC-S704, Type 2, Class 3 or Type 3, Class 3
- CCMC No. 12423-L
- UL Certified for Canada – Insulated Roof Deck Assemblies Construction No. C38 and S2, Meet CAN/ULC-S126, CAN/ULC-S101 and CAN/ULC-S107
- 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 (T 1231)
- Miami-Dade County Approved
- State of Florida Product Approval (FL17989)
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.

**Physical Properties**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensional Stability</td>
<td>ASTM D2126</td>
<td>&lt; 2%</td>
</tr>
<tr>
<td>Compressive Strength</td>
<td>ASTM D1621</td>
<td>20 psi (140 kPa) or 25 psi (172 kPa)</td>
</tr>
<tr>
<td>Water Absorption</td>
<td>ASTM C209 &amp; D2842</td>
<td>&lt; 1.5% or &lt; 3.5%</td>
</tr>
<tr>
<td>Water Vapor Transmission</td>
<td>ASTM E96</td>
<td>&lt; 4.0 perm (228.8 mg/(Pa·s·m²))</td>
</tr>
<tr>
<td>Product Density</td>
<td>ASTM D1622</td>
<td>Nominal 2.0 psf (32.04 kg/m²)</td>
</tr>
<tr>
<td>Flame Spread</td>
<td>ASTM E84 (10 min.)</td>
<td>40–60</td>
</tr>
<tr>
<td>Smoke Development</td>
<td>ASTM E84 (10 min.)</td>
<td>50–170</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>ASTM D1623</td>
<td>&gt; 730 psi (35 kPa)</td>
</tr>
<tr>
<td>Service Temperature</td>
<td>-</td>
<td>-100° to +250°F</td>
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**Thermal Data**

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<th>LTTR VALUE</th>
<th>THICKNESS</th>
<th>FLUTE SPANABILITY</th>
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<tr>
<td></td>
<td>IN</td>
<td>MM</td>
</tr>
<tr>
<td>2.9</td>
<td>0.50</td>
<td>12.70</td>
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<tr>
<td>4.3</td>
<td>0.75</td>
<td>19.05</td>
</tr>
<tr>
<td>5.7</td>
<td>1.00</td>
<td>25.40</td>
</tr>
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</table>

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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. ²RSI is the metric expression of R-value (m² • K/W).
Gemini™ Tapered Edge Strip (TES) is produced with a closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, fiber-reinforced organic felt or inorganic coated-glass facers. Dimensionally stable Gemini™ TES provides a Zero Edge™ polyiso tapered insulation transition of either 1.0” per ft or 1.5” per ft.

- Available with ACFoam®-II and ACFoam®-III1 Facer Technology.  
  1.2.0”×24” TES only. Regional availability and limited order quantities apply.
- Field Insulation Transitions
- Cricket Fabrication
- Drain Sump Fabrication
- Roof Perimeter Slope Enhancement
- Used in Built-Up (BUR), Modified Bitumen, Ballasted Single-Ply, Mechanically Attached Single-Ply and Adhered Single-Ply Roofing Systems

### PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>PRODUCT DIMENSIONS</th>
<th>PACKAGING SPECIFICATIONS</th>
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</thead>
<tbody>
<tr>
<td>MINIMUM</td>
<td>MAXIMUM</td>
<td>WIDTH</td>
</tr>
<tr>
<td>0.0”</td>
<td>1.5” (38.1mm)</td>
<td>12”</td>
</tr>
<tr>
<td>0.0”</td>
<td>2.0” (50.8mm)</td>
<td>24”</td>
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### THERMAL DATA

<table>
<thead>
<tr>
<th>AVERAGE LTR VALUE</th>
<th>THICKNESS</th>
<th>1RSI</th>
<th>SLOPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.3</td>
<td>0.0”–1.5”</td>
<td>0.76</td>
<td>1.5” 12.5%</td>
</tr>
<tr>
<td>5.7</td>
<td>0.0”–2.0”</td>
<td>1.00</td>
<td>1.0” 8.0%</td>
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</tbody>
</table>

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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. 1RSI is the metric expression of R-value (m² • K/W).
Gemini™ Pre-Cut Crickets (CKT) are produced with a closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, glass fiber reinforced organic felt or inorganic coated-glass facers.

- Available with ACFoam®-II and ACFoam®-III Facer Technology
- Hinged Triangular One-Piece Pre-Cut tapered and Fill Panels
- Standardized 3:1 (Length:Width) Ratio
- Slope: 0.5” per ft & 0.25” per ft
- Compatible with Standard Tapered Panels
- Used in Built-Up (BUR), Modified Bitumen, Ballasted Single-Ply, Mechanically Attached Single-Ply and Adhered Single-Ply Roofing Systems

**DIMENSIONS & PACKAGING**

<table>
<thead>
<tr>
<th>PANEL LABEL</th>
<th>THICKNESS</th>
<th>AVG LTTR</th>
<th>‘RSI</th>
<th>PRODUCT DIMENSIONS</th>
<th>PACKAGING</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>MIN 0.5” (12.7mm)</td>
<td>MAX 1.5” (38.1mm)</td>
<td>AVG 1.0” (25.4mm)</td>
<td>5.7</td>
<td>1.00</td>
</tr>
<tr>
<td>Y</td>
<td>MIN 1.5” (38.1mm)</td>
<td>MAX 2.5” (63.5mm)</td>
<td>AVG 2.0” (50.8mm)</td>
<td>11.4</td>
<td>2.01</td>
</tr>
<tr>
<td>Q</td>
<td>MIN 0.5” (12.7mm)</td>
<td>MAX 2.5” (63.5mm)</td>
<td>AVG 1.5” (38.1mm)</td>
<td>8.6</td>
<td>1.51</td>
</tr>
<tr>
<td>2”</td>
<td>MIN 2.0” (50.8mm)</td>
<td>MAX 2.0” (50.8mm)</td>
<td>AVG 2.0” (50.8mm)</td>
<td>11.4</td>
<td>2.01</td>
</tr>
</tbody>
</table>

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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. ‘RSI is the metric expression of R-value (m² • K/W).
Gemini™ Drain Set (DST) is produced with a closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, glass fiber reinforced organic felt or inorganic coated-glass facers. The dimensionally stable Gemini™ DST provides a 4-way slope to the roof drain.

- Available with ACFoam®-II and ACFoam®-III Facer Technology
- One-Piece Pre-Fabricated Tapered Panel: 4’ × 4’ (1220mm × 1220mm)
- Center Thickness: 0.5” (12.7mm) Minimum
- Perimeter Thickness: 1.5” (38.1mm) Maximum
- Slope 0.5” per ft (4.0 %)
- Used in Built-Up (BUR), Modified Bitumen, Ballasted Single-Ply, Mechanically Attached Single-Ply and Adhered Single-Ply Roofing Systems

**DIMENSIONS**

<table>
<thead>
<tr>
<th>THICKNESS</th>
<th>PRODUCT DIMENSIONS</th>
<th>PACKAGING SPECIFICATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIN</td>
<td>MAX</td>
<td>WIDTH</td>
</tr>
<tr>
<td>0.5” (12.7mm)</td>
<td>1.5” (38.1mm)</td>
<td>48” (1220mm)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>THERMAL DATA</th>
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</thead>
<tbody>
<tr>
<td>AVG LTTR VALUE</td>
</tr>
<tr>
<td>---------------</td>
</tr>
<tr>
<td>5.7</td>
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</table>

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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. ‘RSI is the metric expression of R-value (m² • K/W).
Gemini™ One-Piece Miters (MTR) are produced with a closed-cell polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, glass fiber reinforced organic felt or inorganic coated-glass facers.

- Available with ACFoam®-II and ACFoam®-III Facer Technology
- One-Piece Pre-Fabricated Tapered Panel
- Manufactured in a Variety of Slopes and Thicknesses
- Compatible with Standard Tapered Panels
- Used in Built-Up (BUR), Modified Bitumen, Ballasted Single-Ply, Mechanically Attached Single-Ply and Adhered Single-Ply Roofing Systems

**THERMAL DATA & DIMENSIONS**

<table>
<thead>
<tr>
<th>PANEL LABEL</th>
<th>THICKNESS</th>
<th>AVG LTR 1RSI</th>
<th>PRODUCT DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MIN</td>
<td>AVG</td>
<td>WIDTH</td>
</tr>
<tr>
<td>X</td>
<td>0.5” (12.7mm)</td>
<td>1.0” (25.4mm)</td>
<td>5.7 1.00 4’ (1220mm)</td>
</tr>
<tr>
<td>Y</td>
<td>1.5” (38.1mm)</td>
<td>2.0” (50.8mm)</td>
<td>11.4 2.01 4’ (1220mm)</td>
</tr>
<tr>
<td>AA</td>
<td>0.5” (12.7mm)</td>
<td>0.75” (19.05mm)</td>
<td>4.3 0.76 4’ (1220mm)</td>
</tr>
<tr>
<td>A</td>
<td>1.0” (25.4mm)</td>
<td>1.25” (31.75mm)</td>
<td>7.1 1.25 4’ (1220mm)</td>
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<tr>
<td>B</td>
<td>1.5” (38.1mm)</td>
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<td>10.0 1.76 4’ (1220mm)</td>
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<tr>
<td>C</td>
<td>2.0” (50.8mm)</td>
<td>2.25” (57.15mm)</td>
<td>12.9 2.27 4’ (1220mm)</td>
</tr>
</tbody>
</table>

**PANEL LABEL**

- X
- Y
- AA
- A
- B
- C

**THICKNESS**

- 0.5” (12.7mm)
- 1.5” (38.1mm)
- 1.0” (25.4mm)
- 1.0” (25.4mm)
- 1.5” (38.1mm)
- 2.0” (50.8mm)
- 2.5” (63.5mm)
- 2.0” (50.8mm)
- 2.5” (63.5mm)
- 2.25” (57.15mm)
- 48” (1220mm)
- 48” (1220mm)

**AVG LTR 1RSI**

- 5.7
- 11.4
- 4.3
- 7.1
- 10.0
- 12.9

**PRODUCT DIMENSIONS**

- WIDTH
- LENGTH
- 4’ (1220mm)
- 4’ (1220mm)
- 4’ (1220mm)
- 4’ (1220mm)
- 4’ (1220mm)
- 4’ (1220mm)

LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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. 1RSI is the metric expression of R-value (m² • K/W).
ACFoam® Nail Base
Nailable Roof Insulation

- Thermally efficient closed-cell ACFoam®-II or ACFoam®-III polyisocyanurate (polyiso) insulation board bonded to OSB or CDX plywood on the top face.
- Wood Layer Minimum: 7/8" APA/TECO rated OSB or 19/32" CDX plywood.
- Wood Layer Maximum: ¾" APA/TECO rated OSB or CDX plywood.
- Polyiso Layer: 1.0" (25.4mm) minimum up to 4.0" (101.6mm) maximum.
- Offered in a variety of composite thicknesses, providing long-term thermal resistance (LTTR) values from 6.3 to 24.2.
- Available as a special order product with FSC® Certified (Requires ACFoam-III polyiso layer), Fire-Treated, Preservative-Treated and Radiant Barrier OSB or CDX plywood.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- Approved for use as a non-structural panel in new and re-roofing applications.
- Atlas Nail Base Fasteners are required for all Atlas ACFoam® Nailable Insulation Systems.
- Refer to Nailable Insulation Guide for fastening patterns and other application guidelines.
- Also available as a Non-Hal (NH) product. See page 35 for more details.

**CODES AND COMPLIANCES**

- **ASTM C1289**, Type V
- **UL Standard 1256 Classification** – Construction No. 120, 123 & 458
- **UL Standard 790 (ASTM E108)** For use with Class A, B or C Shingles, Metal or Tile Roof Coverings
- **UL Standard 263 (ASTM E119)** Fire Resistance Classification
- **FM Standard 4450/4470 Approved (1-90, 1-105)** Approved for Class 1 Insulated Roof Deck Construction. 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 (T 1231)**
- **Miami-Dade County Approved (19/32” CDX Plywood)**
- **State of Florida Product Approval (FL17983)**
- **APA/TECO Rated OSB Nailing Surface**
- **U.S. Voluntary Product Standard PS 2 Compliant**
LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. 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.

2RSI 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.

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.

**ACFoam Nail Base**

---

**THERMAL DATA**

<table>
<thead>
<tr>
<th>LTTR VALUE</th>
<th>COMPOSITE THICKNESS</th>
<th>²RSI</th>
<th>FLUTE SPANABILITY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>IN</td>
<td>MM</td>
<td></td>
</tr>
<tr>
<td>6.3</td>
<td>1.5</td>
<td>38.1</td>
<td>1.10</td>
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<td>9.1</td>
<td>2.0</td>
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<td>18.0</td>
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<td>21.0</td>
<td>*4.0</td>
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</tr>
<tr>
<td>24.2</td>
<td>*4.5</td>
<td>114.3</td>
<td>4.25</td>
</tr>
</tbody>
</table>

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.
Thermally efficient cross-ventilated non-structural composite insulation. Consisting of ACFoam®-II or ACFoam®-III polyisocyanurate (polyiso) insulation board and OSB or CDX plywood separated with and bonded to 5 individual Expanded Polystyrene (EPS) vent spacer strips.

- Wood Layer Minimum: ½” APA/TECO rated OSB or 1½” CDX plywood.
- Wood Layer Maximum: ¾” APA/TECO rated OSB or CDX plywood.
- Vent Strip Layer: 1.0”, 1.5” or 2.0” EPS
- Polyiso Layer: 1.0” (25.4mm) minimum up to 4.0” (101.6mm) maximum.
- Offered in a variety of composite thicknesses, providing long-term thermal resistance (LTTR) values from 5.7 to 23.6.
- Made to order in 4ft×8ft (1220mm×2440mm) composite panels with a nominal thickness of 2.5” to 6.5”. Atlas Integrity™ EPS Vent Spacers yield a 6000 psf minimum compressive resistance as well as continuous Atlas Nail Base Fastener support across the 4’ dimension.

Available as a special order product with FSC® Certified (Requires ACFoam-III polyiso layer), Fire-Treated, Preservative-Treated and Radiant Barrier OSB or CDX plywood.

- Approved for use as a non-structural panel in new and re-roofing applications.
- Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP).
- Atlas Nail Base Fasteners are required for all Atlas ACFoam® Nailable Insulation Systems.
- Refer to Nailable Insulation Guide for fastening patterns and other application guidelines.
- Also available as a Non-Hal (NH) product. See page 35 for more details.
LTTR (long term thermal resistance) values were determined in accordance with CAN/ULC-S770. Test samples were third-party selected and tested by an accredited material testing laboratory. 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.

Thermal resistance of unsealed air space does not apply. Only LTTR of ACFoam® is reported.

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.

**ACFoam CrossVent**
DESCRIPTION: Standard or Light Duty insulation fastener with #2 Light Duty Drill Point. Specially engineered for attaching Atlas ACFoam® Nail Base and ACFoam® CrossVent® to corrugated steel and wood deck substrates. Atlas Nail Base Fasteners are required for proper mechanical attachment of all ACFoam® nailable insulation systems.

Material: Case Hardened Tempered Carbon Steel
Head Style/Drive: Pancake Head with T-30 Internal Drive
Head Diameter: 0.625”
Shank Diameter: 0.190”
Thread Length: 2.750”
Overall Length: 3” thru 18”
Point: #2 (0.135” dia.) Drill Point
Coating: Epoxy E-Coat (black)
Passes more than 15 cycles (Kesternich) in accordance with DIN 50018

PHYSICAL PROPERTIES

<table>
<thead>
<tr>
<th>TENSILE STRENGTH</th>
<th>SHEAR STRENGTH</th>
<th>HEAD PULL-THRU VALUE¹ (¼” OSD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,380 lbf.</td>
<td>2,900 lbf</td>
<td>545 lbf</td>
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</tbody>
</table>

LATERAL LOAD RESISTANCE¹

<table>
<thead>
<tr>
<th>MAIN MEMBER</th>
<th>SIDE MEMBER</th>
<th>LOAD</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 Ga. Corrugated Steel</td>
<td>Nail Base</td>
<td>411 lbf</td>
</tr>
<tr>
<td>¾” OSB</td>
<td>Nail Base</td>
<td>112 lbf</td>
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</table>

WITHDRAWAL VALUES IN STEEL¹ (80 KSI MIN.)

<table>
<thead>
<tr>
<th>Type B Corrugated</th>
<th>22 Ga.</th>
<th>20 Ga.</th>
<th>18 Ga.</th>
</tr>
</thead>
<tbody>
<tr>
<td>lbf</td>
<td>510</td>
<td>645</td>
<td>920</td>
</tr>
</tbody>
</table>

WITHDRAWAL VALUES IN WOOD¹

<table>
<thead>
<tr>
<th>Specific Gravity</th>
<th>0.67</th>
<th>0.55</th>
<th>0.5</th>
<th>0.46</th>
<th>0.43</th>
<th>0.36</th>
<th>0.31</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb/in.</td>
<td>1429</td>
<td>1173</td>
<td>1067</td>
<td>981</td>
<td>917</td>
<td>768</td>
<td>661</td>
</tr>
</tbody>
</table>

¹Head-Pull-Thru, “Withdrawal”, and “Lateral Load” data reflect average ultimate values.
NOTE: All tests were conducted by an independent testing laboratory. Test results are offered only as a guide and are not guaranteed in any way by Atlas Roofing Corporation.
**Atlas Nail Base Fastener HD**

_Heavy Duty Nailable Insulation Fastener_

**DESCRIPTION:** Heavy Duty Nailable Insulation Fastener with #4 Heavy Duty Drill Point. Specially engineered for attaching Atlas ACFoam® Nail Base and ACFoam® CrossVent® to thick steel substrates. Atlas Nail Base Fasteners are required for proper mechanical attachment of all ACFoam® Nailable Insulation Systems.

- **Material:** Case hardened and Tempered Carbon Steel
- **Head Style/Drive:** Pancake Head with T-30 Internal Drive
- **Head Diameter:** 0.625”
- **Shank Diameter:** 0.212”
- **Thread Length:** 3.875”
- **Overall Length:** 6” thru 13.75”
- **Point:** #4 (0.225” dia.) Heavy Duty Drill Point
- **Coating:** Epoxy E-Coat (black)
  
  Passes more than 15 cycles (Kesternich) in accordance with DIN 50018

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>TENSILE STRENGTH</th>
<th>SHEAR STRENGTH</th>
<th>HEAD PULL-THRU VALUE¹ (¾” OSB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,000 lbf.</td>
<td>3,400 lbf.</td>
<td>545 lbf.</td>
</tr>
</tbody>
</table>

¹Head-Pull-Thru” and “Withdrawal” data reflect average ultimate values.

**NOTE:** All tests were conducted by an independent testing laboratory. Test results are offered only as a guide and are not guaranteed in any way by Atlas Roofing Corporation.

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**Atlas Nail Base Fastener TP**

_Thread Point Nailable Insulation Fastener_

**DESCRIPTION:** Thread Point Nailable Insulation Fastener with Gimlet Thread Point. Specially engineered fastener for attaching Atlas ACFoam® Nail Base and ACFoam® CrossVent® to wood and timber substrates. Atlas Nail Base Fasteners are required for proper mechanical attachment of all ACFoam® Nailable Insulation Systems.

- **Material:** Case hardened and Tempered Carbon Steel
- **Head Style/Drive:** Pancake Head with T-30 Internal Drive
- **Head Diameter:** 0.625”
- **Shank Diameter:** 0.190”
- **Thread Length:** 2.750”
- **Overall Length:** 2” thru 18”
- **Point:** Gimlet Thread
- **Coating:** Epoxy E-Coat (black)
  
  Passes more than 15 cycles (Kesternich) in accordance with DIN 50018

**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
<th>TENSILE STRENGTH</th>
<th>SHEAR STRENGTH</th>
<th>HEAD PULL-THRU VALUE¹ (¾” OSB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,380 lbf.</td>
<td>2,900 lbf.</td>
<td>545 lbf.</td>
</tr>
</tbody>
</table>

¹Head-Pull-Thru” and “Withdrawal” data reflect average ultimate values.

**NOTE:** All tests were conducted by an independent testing laboratory. Test results are offered only as a guide and are not guaranteed in any way by Atlas Roofing Corporation.
Techni-Flo® EV (eave vent) features a unique design that promotes positive air intake at the eave, limiting heat build-up, helping to evacuate moisture, thereby ensuring a longer roof system life. Pre-slotted fastening holes on the roof flange and cover allow for thermal movement, as well as ensure proper fastening location.

The Techni-Flo® EV is just one part of the Techni-Flo® Engineered Ventilation System. When combined with the Techni-Flo® RV and AC Foam® CrossVent® Nailable Polyiso insulation, it creates a state-of-the-art ventilation system, specifically designed to create consistent air intake and exhaust under the roof covering, all based on the design conditions of the project. Properly designed and engineered ventilation through the roof system is essential for roof system durability in both commercial and residential steeped-sloped roofing systems.

FEATURES & BENEFITS

PRODUCT VERSATILITY
- Engineered and fabricated to individual job requirements
- Custom Colors Available
- Available in .40”, .50” and .63” aluminum, 24 ga. steel and alternative materials, such as cedar exterior laminates.

COST SAVING BENEFITS
- Eliminates the need for overhangs and vented soffits, reducing extra labor costs
- Pre-slotted fastening holes on roof flange and cover allow for thermal movement and ensure proper fastening location
- Provided in 12’ lengths for faster installation and fewer splice joints

COMPREHENSIVE WARRANTY*
- Ridge and eave vents will withstand winds up to 130mph
- Vents will be manufactured free of any defects
- Finish will not fade or crack. Covers repair or replacement of the ridge and eave for 20 years
- Vents will continue to provide designed ventilation for the duration of the warranty*

*See the warranty for terms and conditions.
Techni-Flo® EV is not intended for attachment to open ended metal truss or metal bar joist applications.

1Design enhancements required for 130 mph wind speed coverage include, but are not limited to, a minimum .060” aluminum or .063” aluminum cover.
Techni-Flo® RV (ridge vent) accommodates both standing seam and shingled roof applications, and is engineered to individual job requirements. Featuring a snap on cover for ease of installation, this all-metal ridge vent can withstand heavy snow-loads, and will not compress under stress. It also features slotted fastening holes for proper thermal movement and correct fastener placement.

The Techni-Flo® RV is just one part of the Techni-Flo® Engineered Ventilation system. When combined with the Techni-Flo® EV and ACFoam® CrossVent® Nailable Polyiso insulation, it creates a state-of-the-art ventilation system specifically designed to create consistent air intake and exhaust under the roof covering. Properly designed and engineered ventilation through the roof system is essential for roof system durability in both commercial and residential steeped-sloped roofing systems.

**FEATURES & BENEFITS**

**SIZING AND MATERIALS**

- Engineered and fabricated to individual job requirements
- Cover is available in .40", .50", and .63” aluminum and 24 ga. steel
- Accommodates both standing seam and shingled roofs
- Custom colors available

**EFFICIENT DESIGN**

- Easy snap-on cover
- All metal construction withstands heavy snow loads; will not compress under stress
- Available in an alternative Field Roofed Version for shingle attachment
- Slotted fastening holes for proper thermal movement and correct fastener placement and spacing
- Manufactured in 12’ lengths – fewer splice joints
- Passed wind-driven rain test

**COMPREHENSIVE WARRANTY**

- Ridge and eave vents will withstand winds up to 130mph
- Vents will be manufactured free of any defects
- Finish will not fade or crack. Covers repair or replacement of the ridge and eave for 20 years
- Vents will continue to provide designed ventilation for the duration of the warranty*

*See the warranty for terms and conditions.

1 Design enhancements required for 130 mph wind speed coverage include, but are not limited to, a minimum .060” aluminum or .063” aluminum cover.
INSTALLATION

Atlas Fire Retardant Slipsheets are lightweight, easy to handle and, therefore, quicker to install than thermal barriers or coverboards. The slipsheet should be rolled out, overlapping the side and end of the preceding sheet a minimum of two (2) inches. Consult the membrane manufacturer for specific application recommendations (e.g., slipsheet roll direction perpendicular to membrane roll). Mechanical attachment of the slipsheet is not needed in most applications. The patented coating generally provides enough weight to anchor the sheet until the membrane is installed. Mechanical or adhesive attachment may be necessary under windy conditions. Install only as much slipsheet as can be covered by the end of the day.

STORAGE

Factory-applied packaging is intended solely for protection during transit. When stored outdoors or on the job site, the slipsheet rolls should be stacked on pallets at least four inches above ground level and completely covered with a weatherproof covering such as a tarpaulin.

DESCRIPTION

FR-10 Fire Retardant Slipsheets enhance the overall fire performance of many conventional commercial roof systems, including metal roofs. FR-10 Fire Retardant Slipsheets are coated-glass fiber mats specifically designed for installation over wood decks or certain combustible insulation.

RECOMMENDED USES

FR-10 is specifically formulated for use over wood decks or polystyrene insulation. The proprietary flame-retardant coating and glass fiber mat provide protection against flame spread and flame penetration through the roof system. The slipsheet can also act as a barrier between chemically incompatible insulation and roof membranes. In addition, the sheet may be used in multiple layers to achieve certain Class A fire resistance ratings.

WARRANTY AND LIMITATIONS OF LIABILITY

Other than the aforementioned representations and descriptions, Atlas Roofing Corporation (hereafter, “Seller”) makes no other representations or warranties as to the product 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. The Seller shall not be liable for any incidental or consequential damages including the cost of installation, removal, repair or replacement of this product, insulation and/or roof membrane, etc. 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.
TENSILE PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>TEST METHOD</th>
<th>FR-10</th>
</tr>
</thead>
<tbody>
<tr>
<td>MACHINE DIRECTION</td>
<td>TAPPI T 1009</td>
<td>37 lbs/in.</td>
</tr>
<tr>
<td>CROSS MACHINE DIRECTION</td>
<td>TAPPI T 1009</td>
<td>27 lbs/in.</td>
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</tbody>
</table>

STANDARD SIZES

<table>
<thead>
<tr>
<th>SLIP SHEET</th>
<th>SQUARES PER ROLL</th>
<th>COVERAGE W/2&quot; LAP</th>
<th>ROLL SIZE</th>
<th>ROLL WEIGHT (APPROX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FR-10</td>
<td>10 Squares</td>
<td>9.64 Squares</td>
<td>48.25&quot;×250’</td>
<td>96 lbs.</td>
</tr>
<tr>
<td></td>
<td>(1000 sq. ft.)</td>
<td>(964 sq. ft.)</td>
<td></td>
<td>(1225.55mm×76.2m)</td>
</tr>
</tbody>
</table>

WOOD DECK & METAL ROOFING

TYPICAL COMBUSTIBLE DECK APPLICATION

Renderings provided for general assembly clarification. Atlas recommends that installed slipsheet roll direction have a perpendicular relationship to installed membrane roll direction.
WHAT DOES NON-HAL MEAN?

Non-hal stands for non-halogenated, which means ACFoam NH products are manufactured using a non-halogenated flame retardant.

WHAT ARE THE BENEFITS OF USING NON-HAL PRODUCTS?

Non-hal products are a great choice, especially if your project must meet specific environmental requirements or you are seeking a halogen-free flame retardant product. ACFoam NH Products are:

- Living Building Challenge “Red List” Free with Declare label and product database listing
- Helpful toward LEED v4 credit requirements
- California Department of Public Health (CDPH) VOC emissions compliant
**ACFoam-II NH**  
GRF Roof Insulation

**DESCRIPTION:** Closed-cell non-halogenated polyisocyanurate (polyiso) foam core integrally bonded to non-asphaltic, fiber-reinforced organic felt facers. ACFoam-II NH is offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 5.7 to 26.8. Available in 4ft × 8ft (1220mm × 2440mm) and 4ft × 4ft (1220mm × 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 NH 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 NH contains between 52.9% and 27.6% recycled materials by weight (Atlas Technical Bulletin: TB-2).

**CODES AND COMPLIANCES**
- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- 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
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

**ACFoam-III NH**  
CGF Roof Insulation

**DESCRIPTION:** Closed-cell non-halogenated polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers. ACFoam-III NH is offered in a variety of thicknesses, providing long-term thermal resistance (LTTR) values from 5.7 to 26.8. Available in 4ft × 8ft (1220mm × 2440mm) and 4ft × 4ft (1220mm × 1220mm) panels. Manufactured in accordance with ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi) and CAN/ULC-S704 Type 2, Class 3 or Type 3, Class 3.

**ADVANTAGES:** When using ACFoam-III NH in adhered systems, field testing has confirmed significantly more efficient use of solvent-based adhesives than with organic faced insulation. Adhesive application rates vary by manufacturer. Check adhesive manufacturer’s recommendation for application rates. Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP). This product has been validated by UL Environment as resistant to mold growth based on independent testing to UL 2824. ACFoam-III NH contains between 11.2% and 6.2% recycled materials by weight (Atlas Technical Bulletin: TB-2). Class A ratings can be achieved with ACFoam-III NH when the total insulation thickness is a minimum of 3.0” and placed directly on a combustible deck (½:12 maximum deck slope).

**CODES AND COMPLIANCES**
- ASTM C1289, Type II, Class 2, Grade 2 (20 psi) or Grade 3 (25 psi)
- 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
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

For more information, please visit roof.atlasrwi.com/non-hal
ACFoam® Recover Board NH
Roof Recover Board Insulation

DESCRIPTION: Closed-cell non-halogenated polyisocyanurate (polyiso) foam core integrally bonded to inorganic coated glass facers. Available in 0.5”, 0.75” and 1.0” thick 4ft×8ft (1220mm×2440mm) and 4ft×4ft (1220mm×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: Inorganic coated glass facers and polyiso foam core provide an improved substrate for roofing membrane in recover applications. When using ACFoam Recover Board NH in adhered systems, field testing has confirmed significantly more efficient use of solvent-based adhesives than with organic faced insulation. Adhesive application rates vary by manufacturer. Check adhesive manufacturer’s recommendation for application rates. Manufactured using CFC-, HCFC- and HFC-free foam blowing technology with zero ozone depletion potential (ODP) and virtually no (negligible) global warming potential (GWP). This product has been validated by UL Environment as resistant to mold growth based on independent testing to UL 2824. ACFoam Recover Board NH contains between 6.2% and 4.0% recycled materials by weight (Atlas Technical Bulletin: TB-2).

CODES AND COMPLIANCES
- ASTM C1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- 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 790 (ASTM E108) Roofing Systems Classification
- UL 2824 resistant to mold growth as validated by UL Environment
- FM Standard 4450/4470 Approved Refer to FM Approvals® RoofNav for Specific System Details
- IBC Chapter 26 & NBC Sections on Foam Insulation
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

ACFoam® Supreme NH
Foil Faced Roof Insulation

DESCRIPTION: Closed-cell non-halogenated polyisocyanurate (polyiso) foam core integrally bonded to reflective tri-laminate foil facers. 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×8ft (1220mm×2440mm) and 4ft×4ft (1220mm×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 NH 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). Not designed as a substitute for a vapor/air retarder. ACFoam Supreme NH contains between 13.7% and 11.5% recycled materials by weight (Atlas Technical Bulletin: TB-2).

CODES AND COMPLIANCES
- ASTM C1289, Type I, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi)
- 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
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

For more information, please visit roof.atlasrwi.com/non-hal
**DESCRIPTION:** Thermally efficient closed-cell non-halogenated ACFoam-II NH or ACFoam®-III NH polyisocyanurate (polyiso) insulation board bonded to min. 7/8” APA/TECO rated OSB or min. 7/16” CDX plywood on the top face. ACFoam Nail Base NH is offered in a variety of composite thicknesses, providing long-term thermal resistance (LTTR) values from 6.3 to 24.2. Made to order in 4ft×8ft (1220mm×2440mm) panels with a nominal thickness of 1.5” to 4.5”. Manufactured in accordance with ASTM C1289, Type V.

**ADVANTAGES:** ACFoam Nail Base NH combines the benefits of a nailable roof substrate and thermally efficient polyiso insulation in an easy one-step installation. Available as a special order product with FSC® Certified (Bonded to ACFoam-III), Fire-Treated, Preservative-Treated OSB or CDX. ACFoam Nail Base NH 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 Nail Base NH contains between 52.9% and 28.9% recycled materials by weight (Atlas Technical Bulletin: TB-2).

**CODES AND COMPLIANCES**
- ASTM C1289, Type V
- 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
- IBC Chapter 26 & NBC Sections on Foam Insulation
- APA/TECO Rated OSB Nailing Surface
- U.S. Voluntary Product Standard PS 2 Compliant
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

**ACFoam® CrossVent® NH**

**DESCRIPTION:** Thermally efficient cross ventilated non-structural composite insulation. Consisting of ACFoam-II NH non-halogenated polyisocyanurate (polyiso) insulation board and a min. 7/8” APA/TECO rated OSB or min. 7/16” CDX plywood separated with and bonded to 5 individual 1.0”, 1.5” or 2.0” vent spacer strips. ACFoam CrossVent NH is offered in a variety of composite thicknesses, providing long-term thermal resistance (LTTR) values from 5.7 to 23.6. Made to order in 4ft×8ft (1220mm×2440mm) panels with a nominal thickness of 2.5” to 6.5”. Manufactured in accordance with ASTM C1289, Type V.

**ADVANTAGES:** ACFoam CrossVent NH combines the performance of a cross-ventilating air space, nailable roof substrate and thermally efficient polyiso insulation. Integrity™ EPS Vent Spacers yield a 6000 psf minimum compressive resistance as well as continuous Atlas Nail Base Fastener support across the 4’ dimension. Available as a special order product with FSC® certified (Bonded to ACFoam-III), Fire-Treated CDX. ACFoam CrossVent NH 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 CrossVent NH contains between 52.9% and 28.9% recycled materials by weight (Atlas Technical Bulletin: TB-2).

**CODES AND COMPLIANCES**
- ASTM C1289, Type V
- UL Standard 1256 Classification Construction No. 120, 123 & 292
- UL Standard 790 (ASTM E108) For use with Class A, B or C Shingles, Metal or Tile Roof Coverings
- UL Standard 263 (ASTM E119) Fire Resistance Classification
- FM Standard 4450/4470 Approved (1-90, 1-105) Approved for Class 1 Insulated Roof Deck Construction. Refer to FM Approvals® RoofNav for Specific System Details
- IBC Chapter 26 & NBC Sections on Foam Insulation
- APA/TECO Rated OSB Nailing Surface
- FHA min. Property & ARMA Insulated Deck Requirements
- Living Building Challenge Red List Free, with Declare label & Product Database Listing

For more information, please visit roof.atlasrwi.com/non-hal
GENERAL INSTRUCTIONS & WARRANTY INFORMATION FOR ACFOAM® PRODUCTS

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® products shall be kept dry before, during and after installation. Install only as much ACFoam® product as can be covered the same day with completed roofing. Although ACFoam® products have 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 TB-5.

MULTI-LAYER INSTALLATION
A two-layer application of ACFoam® products is strongly recommended. The joints in each layer should be offset in order to avoid a vertically continuous joint through the total insulation thickness. Two layers (or more) with joints staggered can provide improved insulation performance by eliminating thermal bridges. This method also reduces condensation potential and thermal stress on the roof membrane. Refer to Atlas Technical Bulletin TB-5.

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 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 current NRCA Roofing Manual. ACFoam® products shall not be adhered directly to these decks by any bitumen or adhesive attachment method.

ADHESIVE ATTACHMENT
For installing ACFoam® products 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 shall be approximately 50°F below the interply hand mopping EVT. The deck shall 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 shall also be “stepped in” at several points while the bitumen is still hot enough to allow positive attachment. The recommended size of ACFoam® product for hot bitumen attachment is 4’ x 4’. When using polyurethane adhesives or cold applied asphalt adhesive, follow the adhesive manufacturer’s installation recommendations.

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 retainer is necessary, calculations based on interior relative humidity, interior temperature, and outside design temperature must be performed. Consult the NRCA Roofing Manual: Membrane Roofing Systems for more information regarding vapor/air retards 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 Roofing Systems for recommendations for the use of a vapor retainer when construction-generated moisture is present. Consult vapor/air retainer 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 three 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, of the same type.

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 LTTR-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.

20-YEAR LIMITED WARRANTY
In response to valid concerns of building designers regarding thermal efficiency of roof assemblies and the long-term insulating value of roof insulation, Atlas offers a 20-year, limited thermal warranty. The “ACFoam® Limited Warranty” places Atlas ACFoam® products above all others and supports the building owner, designer and contractor by backing up thermal performance. This warranty is available to the building owner at the time the building is completed and is transferable to any subsequent owner for the duration of the 20-year period.
Atlas ACFoam® products deliver unparalleled performance and energy efficiency across all roof installations.
CONTACT US:

ATLAS ROOFING CORPORATION
Corporate Sales and Marketing
2000 RiverEdge Parkway
Suite 800
Atlanta, GA 30328
(770) 952-1442

roof.atlasrwi.com

Sales Offices:

1. Vancouver, BC
   (855) 265-1476
   Fax: (604) 395-8365

2. Toronto, ON
   (888) 647-1476
   Fax: (877) 909-4001

3. Denver, CO
   (800) 288-1476
   Fax: (303) 252-4417

4. East Moline, IL
   (800) 677-1476
   Fax: (866) 740-6019

5. Camp Hill, PA
   (800) 288-1476
   Fax: (717) 975-6957

6. Phoenix, AZ
   (800) 477-1476
   Fax: (602) 477-8897

7. Diboll, TX
   (800) 766-1476
   Fax: (936) 829-5363

8. LaGrange, GA
   (800) 955-1476
   Fax: (706) 882-4047