

ALUMAGUARD® LITE Flexible Weather-Proofing Jacket



AlumaGuard® Lite flexible weather-proofing cladding from **Polyguard Products** is one of the family of **AlumaGuard** cladding products that offers superior cold weather performance, ease of handling and application and true zero perm performance

- Meets ASTM E84 25/50 Smoke and Flame requirements (Silver smooth and embossed)
- Meets ASTM C1775, Type 3 – Standard Specification for Laminate Jacketing
- Cold weather acrylic adhesive allows installation down to 10°F.
- High puncture and tear resistance
- Zero permeability
- Easy to install with no special tools required
- No pinning or activator required
- Excellent emissivity
- Available without adhesive for fabrication applications
- Available in bright white **AlumaGuard® Cool Wrap** finish which meets California Title 24, CRRC and Energy Star requirements (see separate data sheet)

Description

AlumaGuard Lite is a multi-ply high strength composite membrane consisting of multiple layers of UV resistant foil and tough puncture resistant polymer. This multi-ply lamination is then coated with a proven cold weather acrylic adhesive to which is applied a heavy-duty kraft liner that gives the membrane its peel and stick functionality.

Uses

AlumaGuard Lite is designed to be used outdoors to weather-proof exterior insulated ductwork, piping or other insulated tanks, vessels and equipment or indoors on pipe systems and ductwork where a true zero perm vapor barrier and durable outer jacket is required. **Note: Prior to the installation of AlumaGuard Lite, ducts must be sealed in accordance with SMACNA HVAC Duct Construction Standards Metal and Flexible, 3rd Edition (2005), Seal Class A.**

Installation

AlumaGuard Lite is a “peel and stick” product which must be applied to a properly prepared substrate. In duct applications, **AlumaGuard Lite** can be used for the underside of the duct and does not require pinning. It is the recommended product to be used on the underside of the duct in **AlumaGuard** applications.

AlumaGuard Lite is typically applied to faced fiberglass board, rigid isocyanurate foam board with facing, or unfaced extruded polystyrene foam board.

Alumaguard® Lite products are most commonly applied over rigid insulation on outdoor piping and ductwork systems. However, Alumaguard Lite products may be applied to clean and dry bare metal ducts. Care must be taken at terminations and where ducts attach to supports to make sure water entry is not allowed. All published application recommendations must be followed.

Applying Alumaguard All-Weather to light density duct wrap is not recommended. Round or oval duct should be insulated with 3# or 6# pipe and tank wrap with appropriate facing.

Packaging

Alumaguard Lite is available in 3", 23" and 35.5" x 150' rolls packaged 16, 1 and 1 to a carton respectively. **Alumaguard Lite** is available in the following finishes: smooth silver, stucco embossed silver, and **Alumaguard® Cool Wrap** white.

Limited Warranty

Polyguard Products warrants material to be free from leaks caused by defects in materials or manufacturing for a period

of ten (10) years from the date of installation when material is applied according to installation instructions in effect at the time of installation. Contact **Polyguard** for complete details on the Limited Warranty.

Limitations

Alumaguard Lite should be installed on a properly prepared, clean and dry substrate. **Alumaguard Lite** must be protected from damaging chemicals.

Alumaguard Lite should not be adhered to commercial roofing membranes. For specific information regarding **Alumaguard Lite** and commercial roofing, refer to Technical Bulletin, 2011-1.

Alumaguard Lite should be stored in a clean dry area **Alumaguard Lite** has a recommended shelf life of 12 months.

Alumaguard Lite Technical Properties and Testing

| Membrane Property | Test Method(ASTM) | Results |
|--|--------------------------|--|
| Total Product Thickness (w/o liner) | Micrometer | 7 mils (Silver Smooth) 9 mils (Silver Embossed) 9 mils (Cool Wrap) |
| Water Vapor Permeance (perms) | E96, Procedure B | .00 |
| Peel Adhesion (to primed steel) | D3330, Method A | 62.4oz/in |
| Burst Resistance | D774 | 150 psi |
| Tensile Strength (Film only) | D882(Method B) | 40 Lbs/in |
| Puncture Resistance | D1000 | 25 Lbs |
| Fungi Resistance | C1338 | Pass |
| Lower Temperature Exposure | C1263 | -40°F |
| High Temperature Exposure | C1263 | +240°F |
| Dimensional Stability | D1204 | <0.5% |
| Flame/Smoke | E84 | Meets 25/50 |
| Emissivity | C1371 | .030 |
| Cool Wrap Properties & Test Results | Solar Reflectance | Thermal Emittance |
| Cool Roof Rating Council (CRRC) Initial | 0.86 | 0.82 |
| Cool Roof Rating Council (CRRC) 3 Year | 0.77 | 0.86 |
| Energy Star 3 Year | 0.84 | 0.78 |
| California Title 24 | Exceeds 0.75 | Exceeds 0.75 |

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| LEED® Point |
| <p>Contributes to Energy Atmosphere (SA) Credit 1</p> <p>Contributes to Indoor Environmental Quality (IEC) Credit 4.1</p> <p>VOC Content< 15 g/l</p> |

Note: Before installing Alumaguard® Lite obtain a full set of installation instructions at www.Polyguard.com or by calling Polyguard at 214-515-5000 or by asking your local distributor or sales representative.