



## ALUMAGUARD™

Ducts **must** be sealed in accordance with **SMACNA HVAC Duct Construction Standards Metal and Flexible - Second Edition (1995) Seal Class A** prior to insulation of **ALUMAGUARD™**.

**Alumaguard™** has been in service on thousands of ducts and piping systems around the world, proving that a peel and stick, self-healing membrane is the perfect waterproofing system for exterior insulated systems.

The introduction of four new **Alumaguard™** products gives the specifier and contractor the perfect selection of products for any project. The introduction of Alumaguard Lite for the bottom of the ducts eliminates the need to pin through the **Alumaguard™** on the bottoms of the duct anymore.

**HOWEVER, WE DO NOT RECOMMEND A THIN NON-HEALING MEMBRANE ON AN ENTIRE EXTERIOR DUCT SYSTEM.**

Complete installation instructions are available on our website, or by calling us.

**Alumaguard™** is a specialty rubberized bitumen membrane designed specifically to be installed over insulation on exterior ductwork, refrigeration piping, chilled water piping, tanks, vessels, and equipment. The membrane is 'peel and stick', self-healing if punctured, UV stable, and will expand and contract with the mechanical system. The membrane has excellent emissivity and sound attenuation properties.



P.O. Box 755  
Ennis, TX 75120  
PH: (214) 515-5000  
FX: (972) 875-9425

This information is based on our best knowledge, but POLYGUARD cannot guarantee the results to be obtained.

ISO 9001  
BUREAU VERITAS  
Certification  
No. 18674  
ANAB  
- American Natl. Standards Institute  
- Dutch Council for Certification  
- Deutscher Akkreditierungs Rat

# ALUMAGUARD™

## TECHNICAL PROPERTIES & TESTING

Membrane Property	ASTM Test Method #	Typical Results Alumaguard™
Total Product Thickness	D 1000	<b>0.055" – 0.060"</b>
<b>Water Vapor Transmission [grains/(hr-ft<sup>2</sup>)]</b>	<b>E 96-00</b>	<b>0.0022</b>
<b>Permeance (US Perms)</b>	<b>E 96-00</b>	<b>0.0053</b>
Water Vapor Transmission [grains/(hr-ft <sup>2</sup> )] Compound Only	E 96-00	0.012
Permeance (US Perms) Compound Only	E 96-00	0.035
Peel Adhesion (to primed steel)	D 1000	> 12 LB/In Width
Elongation at Break	D 882	400%
Low Temperature Pliability	D 146 (modified)	No Cracks @ -15°F
Low Temperature Pliability	D 146 (modified)	No Crack @ <b>-31°F</b>
Tensile Strength Backing	D 882 (Method B)	5000 PSI
Puncture Resistance Backing	E 154	> 40 LBS
Fungus Resistance Membrane	G 21-90	0 Growth
Sound Transmission Coefficient	E 90-97	0.18
Upper Temperature Limit	LAB	160°F
<b>Specialized Testing</b>		
<b>Overlap Bond Aging Test: (Lbs/1")</b>		
Bond to itself (after 2 hours UV exposed)	D 1000	11.2
Bond to itself (after 3 days UV exposed)	D 1000	22.3
<b>Low Temperature Peel Adhesion</b>		
Peel Adhesion (overlap bond) @ -15° F	D 1000	19.5
Peel Adhesion (overlap bond) @ -31.5° F	D 1000	14.7

**Exposure to NH<sub>3</sub> and NH<sub>4</sub>OH (request tech update for complete details)**

[Tested by exposure to Anhydrous Ammonia Gas, Ammonium Hydroxide 5%, and Ammonium Hydroxide 25%]

Overall Independent Lab Test deemed "severe based on field expectations": **Excellent Product Performance**

**NOTE:** Printed instructions are detailed on our installation instruction sheets, this is not an installation instruction document; before installing or specifying Alumaguard™, obtain a full set of installation instructions from your local distributor, sales representative, or call Polyguard Products (1-800-541-4994) for a set of instructions. We have them available on our website.