



ALUMAGUARD™

Installation Recommendations

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™**.

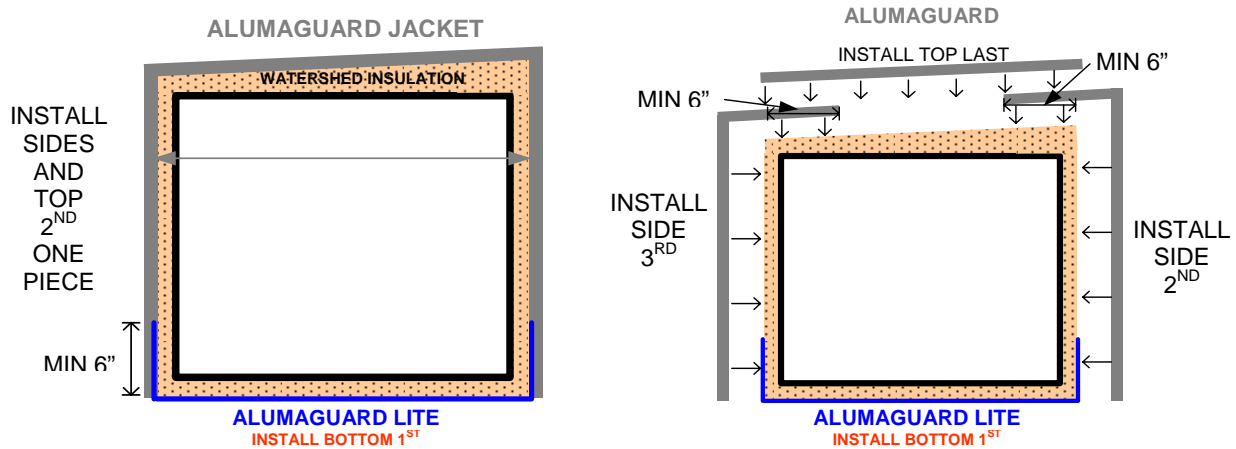
The introduction of **ALUMAGUARD LITE™**, makes it unnecessary to pin through the membrane on the bottom of duct. The weight and construction of **ALUMAGUARD LITE™** does not require mechanical support.

Hot and cold air ducts should be installed in the following manner to maintain proper vapor barrier and physical integrity; the board insulation should be mechanically installed on properly sealed duct according to the engineer's specification using insulation fasteners (mini-cup weld pins or perf. based pins and washers). Insulation on the top of the ductwork *should* be installed in such a manner as to allow for 'water shed' from the top of the duct to prevent water from 'ponding'.

Polyguard recommends faced rigid foam insulation (closed cell) for a smooth look, less seams, and superior R-Value per inch. Extruded polyisocyanurate and expanded polystyrene with a foil or polyethylene face.

Polyguard recommends our **ALUMAGUARD™** system be installed according to one of the following procedures;

- Cut one piece of **ALUMAGUARD LITE™** to cover the underside of the duct and up 6" on each side. **DUE TO THE POTENTIAL ABUSE POLYGUARD DOES NOT RECOMMEND THE APPLICATION OF ALUMAGUARD LITE™ TO THE ENTIRE DUCT, USE ALUMAGUARD™, ALUMAGUARD EE™, OR ALUMAGUARD LT™ ON THE TOP AND SIDES.**
- Cut two side pieces to fit from the bottom corner of the duct up over the top of the duct, lap over the top 6", **DO NOT FOLD A LAP UNDER THE DUCT.**
- Cut the final piece to cover the top, trim it flush with the top corners. Roll the **ALUMAGUARD™** membrane as you remove the release film with a laminate roller to insure adhesion and lessen wrinkling.



ALUMAGUARD™ can also be installed in a one piece application when duct size permits. Starting at the bottom of one side of the duct, go up the side, over the top, and down the other side trimming the **ALUMAGUARD™** flush with the bottom corner of the duct: **do not terminate the lap on the bottom of the duct!**

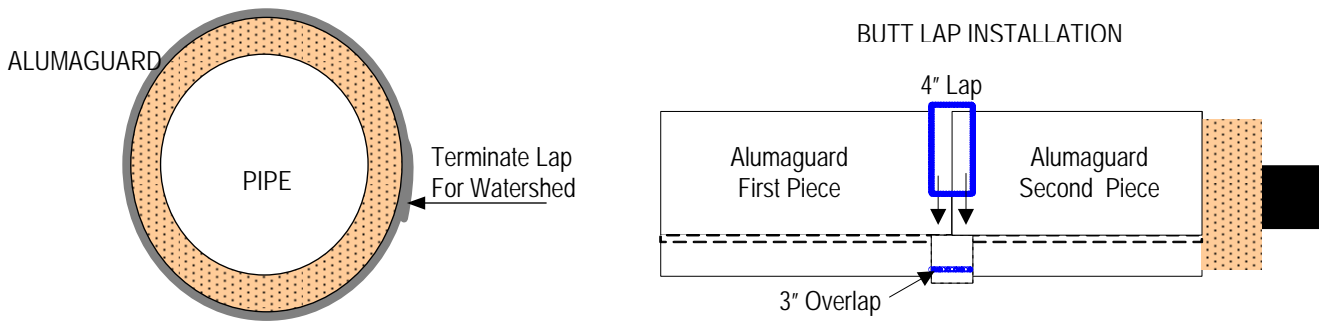
When installing **ALUMAGUARD™** in temperatures below 50° F, *Polyguard's Low Temperature Activator* or **ALUMAGUARD LT™** should be used. **ALUMAGUARD LT™** requires no activator (down to 0° F)

ALUMAGUARD™ must be protected from damaging chemicals; being rubberized bitumen, we will be 'solvated' when exposed to petroleum or coal tar based compounds. If you are unsure of the materials you will be subjecting our product to, please feel free to call us at 1-800-541-4994 for more information. Store **ALUMAGUARD™** in a warm dry place prior to installation. For specific installation recommendations please call us for detail drawings as you require them.

ALUMAGUARD™ is an excellent cold piping jacketing system; superior to metal or PVC in performance. Its properties facilitate installation on cold systems *WITHOUT* the need for slip joints, eliminating a potential vapor breach. **ALUMAGUARD™** will expand and contract with the piping system without rupture; minimal wrinkling may occur.

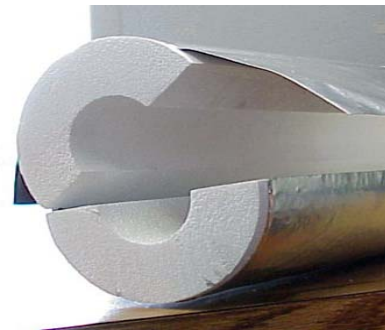
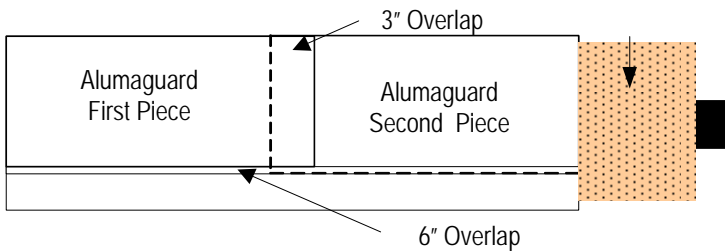
NOTE: ALUMAGUARD™ IS NOT TO BE USED AS A MECHANICAL FASTENER! Insulation must be installed (tape or bands) according to the manufacturers instruction. If **ALUMAGUARD™** is pre-applied to pipe cover, it **MUST BE BANDED** when installed. **DO NOT PAINT ALUMAGUARD™ BEFORE READING OUR TECHNICAL BULLETIN SHEET, it can void your warranty!**

Cold piping systems jacketed with **ALUMAGUARD™** or **ALUMAGUARD LITE™** should be installed in the following manner; the "stretch out" for each piece should be cut to allow a 6" lap over the circumferential lap. Install tightly around the pipe insulation, rolling with a laminate roller or other firm "rolling pin" type roller to insure contact with the substrate. Each piece should be within 1-1/2" of the previous piece and a 4" wide butt lap placed over the joint and rolled with a roller. The butt lap should start where the circumferential lap ends, wrapping around the pipe, and then lapping over 6" past the starting point. Installation can also be a cigarette wrap method using a 3" longitudinal lap and the same 6" circumferential lap. **ALUMAGUARD™ is not a mechanical fastener, insulation should be installed with strapping or banding according to manufacturers instruction.**



NOTE: Care should be taken when using **ALUMAGUARD™** on hot systems to insure that the surface temperatures after insulation do not exceed our upper use limitations. It is important to note that heat transfer through single layer joint seams could result in the softening or melting of the rubberized asphalt compound.

Install the first **ALUMAGUARD™** or **ALUMAGUARD LITE™** piece over the insulation with a 6" lap terminated at the 4 o'clock position. Install the second piece of **ALUMAGUARD™** with 3" overlapped onto the previous piece of **ALUMAGUARD™**. The circumferential laps should all line up at the 4 O'clock position to shed water. Roll the surface with a laminate roller or other firm "rolling pin" type roller to insure contact with the substrate. Insulated piping exceeding 12" outside diameter requires the use of banding on **ALUMAGUARD™**.



Fittings, 90's, tees, valves, and 45's can be laid out using standard sheet metal methods, modified to allow for overlap. This can be accomplished by adding to the throat and heel of the fittings. The bottom piece is installed first, and then the top piece lapped over the bottom piece to permit water shedding over the lap. Tees, valves and other fittings can be fabricated just like you would use standard layout procedures, either two piece or gored fittings, simple add for the overlap. Fittings can also be 'gored', over sizing each gore piece to allow for a lap onto the preceding piece. Installers can also use standard metal fitting covers with the **ALUMAGUARD™** products. Care must be used to insure that the fittings are vapor sealed!