Alumaguard 60

Installation Instructions

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™***.

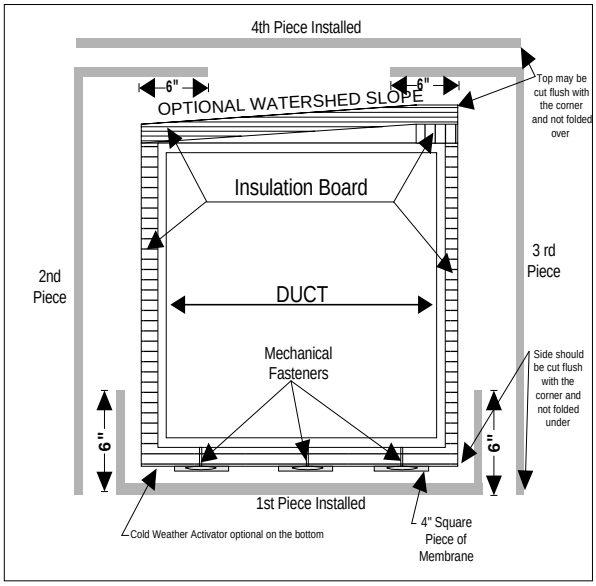
Ductwork exceeding 24” in width must be pinned through the ***ALUMAGUARD™*** on the bottom of the duct; you will find it advantageous to use Polyguard’s Cold Weather Activator on the bottom of the duct, though it is not required. Insulated mini cup pins can be shot through the ***ALUMAGUARD™***, or glued perforated pins with self-locking washers may be used also; DO NOT USE self-adhering pins. A 4” square of ***ALUMAGUARD™*** should be placed over the washer to prevent moisture penetration, limit thermal conductance, and prevent the rusting of the pin or washer.

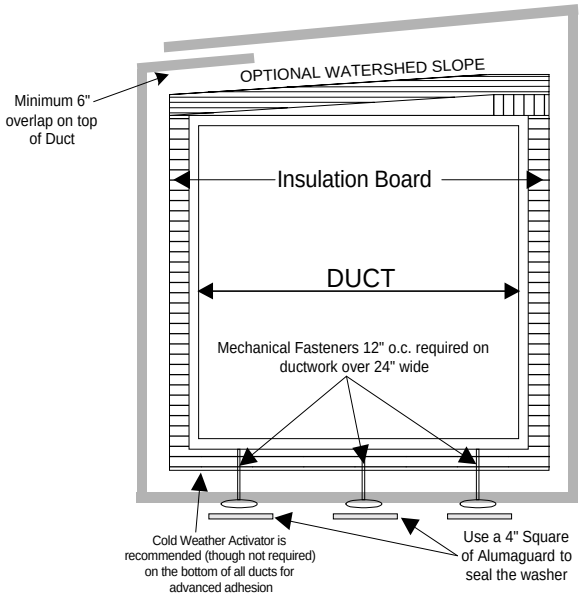
Hot and cold air ducts should be installed in the following manner to maintain proper vapor barrier and physical integrity; the board insulation should be mechanically installed on properly sealed duct according to the engineer’s specification using insulation fasteners (mini-cup weld pins or perf. based pins and washers). On smaller ducts, the washers should be covered with a 4" square piece of ***ALUMAGUARD™*** prior to jacketing the ductwork to prevent the puncture of the outer membrane by the fasteners. 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'.

NOTE: **Fiberglass, Urethane, Styrofoam, Cellular Glass or Phenolic Foam Insulation *must* have FSK facing on the bottom of the duct; Polyguard recommends FSK facing on all sides for the best adhesion results. Substrate surface *MUST BE* clean, dry, and free of oil films!**

Polyguard recommends ***ALUMAGUARD*** be installed according to one of the following procedures; **1)** Cut one piece of ***ALUMAGUARD*** to cover the underside of the duct and up 6" on each side **2)** 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". **3)** Cut the final piece of ***ALUMAGUARD*** 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***.

Detail Drawings of proper installation recomendations of ***ALUMAGUARD™***





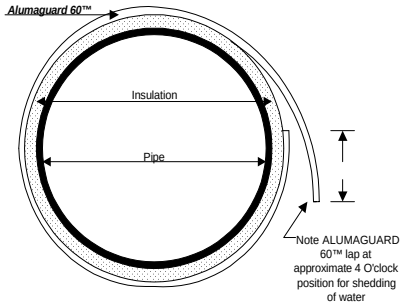
ALUMAGUARD can also be installed in a ‘one piece’ application when duct size permits. The final lap can be either on the top as shown, or terminating on the side of the duct cut flush with the bottom corner; ***do not terminate the lap on the bottom of the duct***.

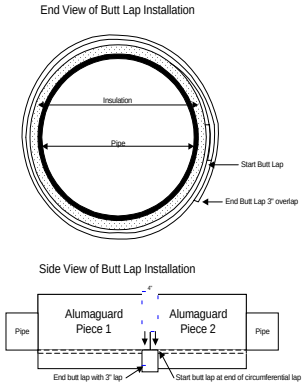
When installing ***ALUMAGUARD™*** in temperatures below 50° F, Polyguard’s Cold Weather Activator or a heat gun must be used to ensure adhesion of ***ALUMAGUARD™***. (*Please refer to our “Cold Weather Installation” instruction sheet)*

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.

ALUMAGUARD 60™ or ***Alumaguard 60 White***™ are excellent cold piping jacketing systems; superior to metal or PVC in performance. The properties of ***ALUMAGUARD 60***™ 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.

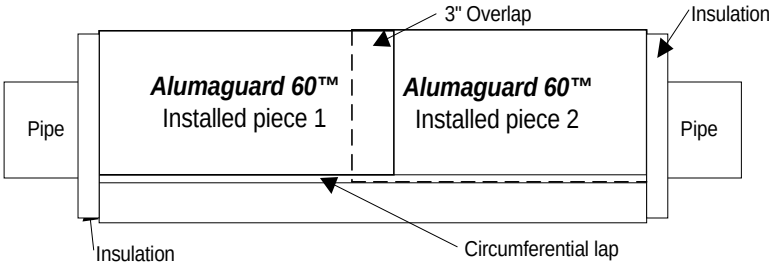
Cold piping systems jacketed with ***ALUMAGUARD 60***™ should be installed in the following manner; the "stretch out" for each piece of ***ALUMAGUARD*** should be cut to allow a 6" lap over the circumferential lap. Install ***ALUMAGUARD*** tightly around the pipe insulation, rolling with a laminate roller or other firm "rolling pin" type roller to insure contact with the substrate. Each piece of ***ALUMAGUARD*** should be tightly butted to the previous piece of Alumaguard and a 4" wide butt lap of ***ALUMAGUARD*** 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.

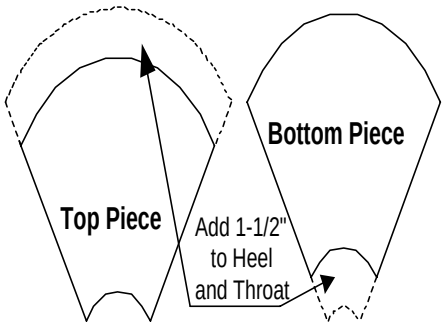




NOTE: Care should be taken when using ***ALUMAGUARD 60***™ on hot systems to insure that the surface temperatures ***after*** insulation do not exceed our upper temperature use limitations. It is important to note that heat transfer through single layer joint seams could result in the softening or melting of the rubberized asphalt compound.

We do not recommend the cigarette wrap procedure of ***ALUMAGUARD 60***™ on refrigeration piping systems (use the butt lap method). Install the first ***ALUMAGUARD 60***™ piece over the insulation with a 6" lap terminated at the 4 o'clock position. Install the second piece of ***ALUMAGUARD 60***™ with 3" overlapped onto the previous piece of ***ALUMAGUARD 60***™. 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 24" outside diameter may require the use of Polyguard's activator or banding depending on the substrate.





90's, tees, valves, and 45's can be laid out using standard sheet metal 'two piece' methods, modified to allow overlap. This can be accomplished by adding 1-1/2"-2" to the throat of the bottom half of the fitting and adding 1-1/2" to the heel of the top half of the fitting. 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, adding 1-1/2" to 2" for the required laps. Fittings can also be 'gored', over sizing each gore piece to allow for a lap onto the preceding piece. The two piece method makes a better looking fitting, however, as with metal work, larger fittings must be gored due to material constraints and ease of application. Installers can also use standard metal fitting covers or heavy-duty PVC fitting covers with the Alumaguard products. Care must be used to insure that the fittings are vapor sealed!

ALUMAGUARD is easily fabricated for any fitting you encounter, just cut, peel, and stick!

POLYGUARD PRODUCTS, INC.
ENNIS, TX
1-800-541-4994