

CGC FABRITE DUCT-INSULATION / CLADDING SYSTEM INSULATION SPECIFICATION AND INSTALLATION GUIDE FOR DUCTS

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SCOPE: This Specification and Installation Guide Provides Recommended Materials and Installation Practices for Ducts With the Application of the Pitch-Support Roof System Developed by County Insulation Company.

Physical Characteristics of the Pitch-Support Roof System:

- The Pitch-Support Roof System by County Insulation Company is applicable to all square and rectangular horizontal ducts.
- Our duct roof design prevents ponds of water on all size horizontal ducts.
- Our roof system design is adaptable to all types of insulation.
- The Pitch-Support Roof System is a cost effective way to insulate ducts outdoors or anywhere there is a need to prevent liquid accumulation.

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1.0 General Requirements:

- 1.1 All insulation and insulation materials must be stored in a cool, dry location, protected from the weather before and during application.
- 1.2 Surfaces to be insulated shall be free of all grease, oil, loose scale and foreign matter and shall be dry and free of rust.
- 1.3 Double layer insulation is applied to duct top only.
- 1.4 Housekeeping shall be performed according to accepted construction practices.

2.0 HVAC Duct Insulation Systems

- 2.1 For HVAC ducts the board insulation shall be 2 inch isocyanurate with an foil finish on both sides.
- 2.2 The insulation shall be 2 inches thick. Duct Roof Pitch-Supports shall be fabricated of Polyisocyanurate Rigid Foam Insulation.
- 2.3 Secure the board insulation to the duct surface with weld anchor pins and/or adhesive.
- 2.4 Impale the insulation on the anchor pins and secure the insulation with compression washers.
- 2.5 Seal all finish joints and exposed insulation corners with 2-mil thick foil tape.

3.0 Insulation Weather Barriers

- 3.1 For all Fabrite™ ducts, apply 0.032 inch thick stucco embossed aluminum.
- 3.2 Application of Metal Jacketing on Ducts.
 - 3.2.1 Tapered pitch-support applied on top of polyisocyanurate insulated duct.
 - 3.2.2 Apply metal jacketing with all seams overlapping 2 inches minimum in a watershed fashion.
 - 3.2.3 Secure the seams with stainless steel sheet metal screws or pop-rivets.
 - 3.2.4 Seal seams with caulk as needed.

4.0 Insulation Materials and Accessories*

- 4.1 The list of acceptable insulation materials and accessories is to serve as a guide only.
- 4.2 Stucco embossed aluminum roll jacketing or sheet, To ASTM B2089, 0.032 inch thick
- 4.3 Duct Roof Pitch-Support to average ½ inch to 12 inch slope.
- 4.4 Polyisocyanurate Rigid Foam Insulation, approx 2 lb./cu.ft. Density, per ASTM c591 (Type IV).
Dow Plastics Co.
- 4.5 Caulking Sealant, Single Component System
- 4.6 Foil (2-mil) Pressure Sensitive Tape
Compac, Perm Tape Foil Std 120-6
Venture, 1520 CW Foil

*** The above materials may be substituted with materials of equal or superior quality upon approval.**

5.0 Sketches for Ducts

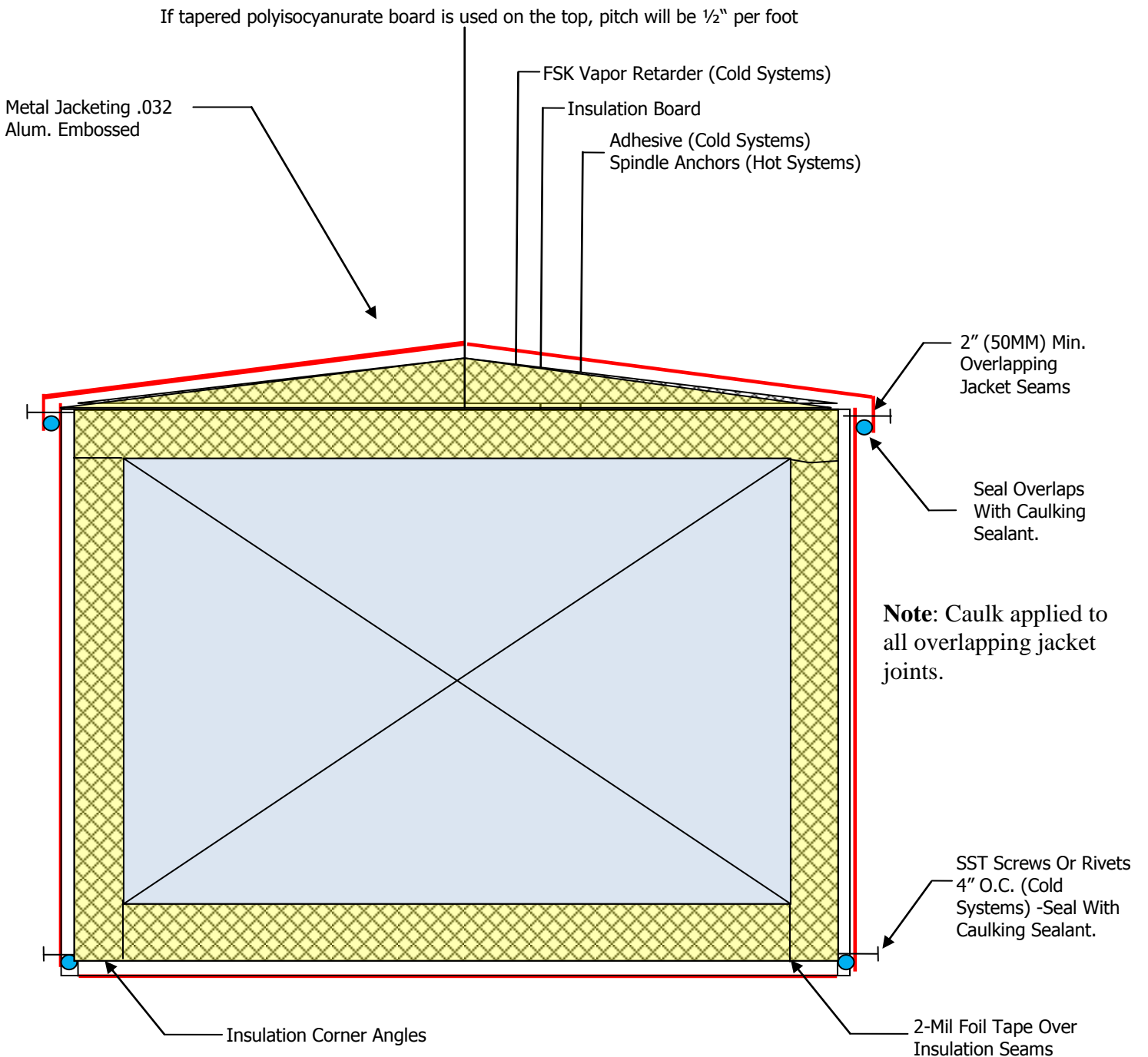


FIGURE 1
DUCT SECTION VIEW





