**Bid Proposal: Louver model 101-45**

All aluminum extrusion components are made from 6063-T5 alloy with a mill finish. For a different surface finish, refer to the Louver Finishes and Accessories document.

1. **Blades:**
   1. Cométal model 101-45: Extruded aluminum blades with a maximum thickness of 1.30 mm (0.051”) and an optimized profile.
   2. Blade angle: 45 degrees.
   3. Two (2) screw grooves in the blade profile provide maximum rigidity to the assembly.
2. **Upper, lower, and side frames:**
   1. Frames are made from extruded aluminum.
   2. Frames have a depth of 38.1 mm (1 1/2").

*Com*é*tal 1.5-U insertion model*: 1.83 mm (0.072") minimum thickness

**OR**

*Com*é*tal 2-U insertion model*: 1.83 mm (0.072") minimum thickness in the case of visible mullion louvers

**OR**

*Com*é*tal 1.5-L border model*: 2.06 mm (0.081") minimum thickness

* 1. Concealed structures:

Extruded aluminum angles support the louver at intervals of no more than 915 mm (36") center to center. For sections shorter than 2438 mm (96”), support angles measure 38.1 x 38.1 x 4.7 mm   
(1½ x 1½ x 3/16”); for sections longer than 2438 mm (96”), support angles measure 50.8 x 50.8 x 4.7 mm (2 x 2 x 3/16"). Each blade is attached to the support structure by a rigid aluminum bracket.

* 1. Visible vertical mullions:

Mullions are composed of two interlocking Cométal 2-U frames. Grooved frames interlock perfectly without additional hardware. Mullion arrangement can be changed to achieve the desired visual effect specified in the plan.

**OR**

* 1. Concealed vertical mullions:

Not available for this model.

1. **Assembly:**
   1. All aluminum components are assembled mechanically using screws. Welding must be avoided to maintain the mechanical properties of the aluminum, and the quality of the anodization.
2. **Performance:**
   1. Louvers will have a 37.94 % free air percentage based on a 48 x 48" (1219 x 1219 mm) louver.
   2. The beginning point of water penetration at 0.010 oz/ft2 (3.05 g/m2) is 780 fpm (3.96 m/s) free area velocity.
   3. Free area intake velocity @ pressure drop 0.15 in. H2O (3.81 mm H2O) = 800 fpm (4.06 m/s)
3. **Installation:**
   1. Louvers must be installed squarely, according to the manufacturer's recommendations.