**Bid Proposal: Grille AN-4000**

All aluminum extrusion components are made from 6063-T5 alloy with a mill finish; tubes are 6063-T831 alloy. For a different surface finish, refer to the Louver Finishes and Accessories document.

1. **Blades:**
   1. Blades: 32 x 3.2 x 38.1 mm (1 1/4 x 1/8 x 1 1/2”) T-shaped extruded aluminum, Cométal model AT-4000 with non-slip vinyl inserts
   2. Blade spacing: 5 mm (3/16”)
   3. Blades are held together by pressed and expanded tubes with a diameter of 9.5 mm (3/8"), spaced at intervals of no more than 140 mm (5 1/2").
   4. The blades are fitted with "hooks" to hold the vinyl inserts
   5. Inserts are 27 x 7.30 mm (1 1/16 x 9/32”) and are available in four (4) colors. The top of the insert is slightly domed and has four (4) rows of notches.
2. **Frames:**
   1. Perimeter frames have a depth of 63.1 mm (2 1/2") and one of two formats:
      1. Border frame: for existing or defined openings

Made from a 3 mm (1/8") thick aluminum extrusion with a 30 mm (1 3/16") shoulder for an edged finish.

**OR**

* + 1. Anchor frame: for fastening in poured concrete

Made from a 3 mm (1/8") thick aluminum extrusion with an insert tab for concrete fastening.

* 1. For sections larger than 3048 x 1830 mm (10’0" x 6’0"), a mechanical joint is provided.
  2. Concealed beneath the grille panels, supports are installed perpendicular to the blades at intervals of 508 mm (20") max. They are supported in turn by leveling angles that rest directly on the floor. Levelling angles are installed on site at intervals of 508 mm (20") max.
  3. Dividing blades are secured to the perimeter frame between grille panels at intervals of no more than 1000 mm (39 3/8"), creating an appearance of continuity.
  4. To separate two panel sections, panel separators are secured to the perimeter frame, perpendicular to the blades, at intervals of 1219 mm (48") max.
  5. The supports, dividing blades and panel separators described in the previous points are positioned to comply with the load-bearing capacity of the grille, resulting in panel sections that are easy to handle and maintain.

1. **Retaining pan (optional):**

20 gauge galvanized steel

**OR**

26 gauge galvanized steel

**OR**

20 gauge aluminum

**OR**

20 gauge stainless steel #304

**OR**

26 gauge stainless steel #304

* 1. The retaining pan design directs water flow toward the center.
  2. For sections larger than 3048 x 1830 mm (10'0" x 6'0"), a mechanical seal is provided.

1. **Assembly:**
   1. Supports, dividing blades, and panel separators are welded to the perimeter frame.
   2. Panel blades are joined together by 9.5 mm (3/8") diameter, pressed and expanded tubes, spaced at intervals of 140 mm (5 1/2") max.
2. **Installation:**
   1. The floor opening on site must have a depth of 68 mm (2 11/16").
   2. Install frames, pans and grilles square, according to the manufacturer's recommendations.
   3. Grilles must be mechanically fastened to the frame to avoid warping.
   4. Retaining pans in sections are welded with tin directly on site.
   5. Frame sections are assembled mechanically on site.
3. **Accessories available (on request)**
   1. Lifting hooks.
   2. Hinges and retaining arms.
   3. Two (2) locks on each panel.
   4. Four (4) locks on each panel.
   5. Brass drain.
   6. Acoustic pads.
   7. Alkyd-based anti-corrosion protection paint.