

## CIRCULAR GEOMETRIC **GRILLE** - **RECOMMENDED SPECIFICATION**

### **GENERAL**

Where indicated on plan drawings or described in schedules, furnish and install Circular Geometric Grilles as designed and manufactured by The Aiolite Company LLC, Schofield, Wisconsin. Grilles shall be furnished in the configurations represented on the plan drawings and shall include supports, installation hardware and finishes as specified and required for a complete installation.

### **SUBMITTALS**

Manufacturer shall submit shop drawings incorporating key plans, elevations, sections and details showing profiles, angles and spacing of components and frames; unit dimensions related to wall openings and construction; and, anchorage details and locations. Grilles shall be furnished in the configurations represented on the plan drawings and shall include supports, installation hardware and finishes as specified and required for a complete installation

### **PRODUCTS**

Architectural grilles shall be Aiolite Circular Geometric Grilles as follows:

- Material: Extruded Aluminum, Alloy 6063-T5
- Circular Member Thickness: 0.100" (2.54 mm).
- Grille Depth: Specify 2 to 6" (50.8 to 152.4 mm).
- Perimeter Frame: Specify Aluminum Angle, Bar, Channel or Tube.
- Circular Member Angle: Specify zero to 45-degrees.
- Circular Member Spacing: Specify 6" (152.4 mm) on Center.

### **ALL-WELDED ASSEMBLY**

All horizontal and perimeter frame members shall be joined with fillet welds concealed from view, unless the size of the grille makes bolted connections between grille sections necessary. Each weld shall be produced with the Pulsed Gas Metal Arc Welding (GMAW Mig) process. Blades shall be joined to perimeter frames with two 1-inch (25.4 mm) long fillet welds with a minimum 1/8-inch (3.175 mm) leg. Frames shall be joined at each corner with a full-length GMAW fillet weld with a minimum 1/8-inch (3.175 mm) throat.

### **STRUCTURAL DESIGN CRITERIA**

Manufacturer shall design and furnish all supports required to withstand a wind force of not less than 25 pounds per square foot. Grilles 120-inches (3,048 mm) wide x 120-inches (3,048 mm) high will be fabricated and installed in multiple sections. Grille members, frames, mullions and anchor-ages shall be demonstrated to withstand the specified wind design load.