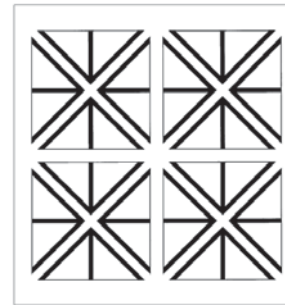
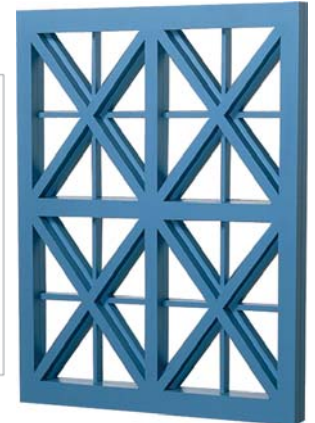


**ARCHITECTURAL GRILLE**

<b>Grille Type</b> .....	Sansome
<b>Material</b> .....	Aluminum Plate (Alloy 5052-H32)
<b>Material Thickness</b> .....	0.250 to 0.500 in. (6.35 to 12.70 mm)
<b>Grille Depth (No Frame)</b> .....	0.250 to 1.00 in. (6.35 to 25.4 mm)
<b>Grille Depth (With Frame)</b> .....	2 to 6 in. (50.8 to 152.4 mm)
<b>Perimeter Frame</b> .....	None, Aluminum Channel or Tube
<b>Geometric Pattern</b> .....	As Detailed by the Designer
<b>Number of Reveals</b> .....	None to Multiple As Detailed by the Designer



ELEVATION VIEW



**RECOMMENDED SPECIFICATION**

**Airolite Sansome Grilles** are designed and produced to your custom specification to function as architectural accent elements or entire facades that yield sight and solar screening or serve as security barriers. Sansome Grilles are produced from aluminum plate in single or multiple components from 0.250" (6.35 mm) to 0.500" (12.70 mm) thick that enable precise reproduction of intricate or complex geometric patterns. If desired, multiple plate thicknesses may be joined by welding to yield reveals. Where required, optional perimeter channel or tube frames lend rigidity to the assembly and may facilitate installation. Sansome Grilles may be supplied in virtually any geometric pattern that can be detailed in AutoCAD and enable optimum flexibility in design. All materials are available in Airolite's broad array of baked enamel, fluoropolymer and clear or color anodize coatings for durability and compatibility with adjacent components. Please contact your local Airolite representative or the factory for assistance with the layout and design of support systems when required.

**GENERAL**

Where indicated on plan drawings or described in schedules, furnish and install Sansome Grilles as designed and manufactured by The Airolite 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. Submit theoretical calculations prepared by a professional engineer specializing in the application of welding technology demonstrating that each fillet weld joining infill elements and frame members will withstand a minimum of 526 pounds of force in shear. Provide samples of manufacturer's finish and color charts showing the full range of finishes and colors available.

**PRODUCTS**

Architectural grilles shall be Airolite Sansome Grilles as follows:

- Material: Aluminum Plate, Alloy 5052-H32
- Material Thickness: Specify 0.250" (6.35 mm) to 0.500" (12.70 mm), or as indicated.
- Grille Depth: Specify 0.250" (6.35 mm) to 6" (152.4 mm), or as indicated.
- Perimeter Frame: Specify No Frame, Aluminum Channel or Tube, or as indicated.
- Number of Reveals: Specify number of material thicknesses required or as indicated.
- Geometric Pattern: As indicated on Contract Drawings.

**ALL-WELDED ASSEMBLY**

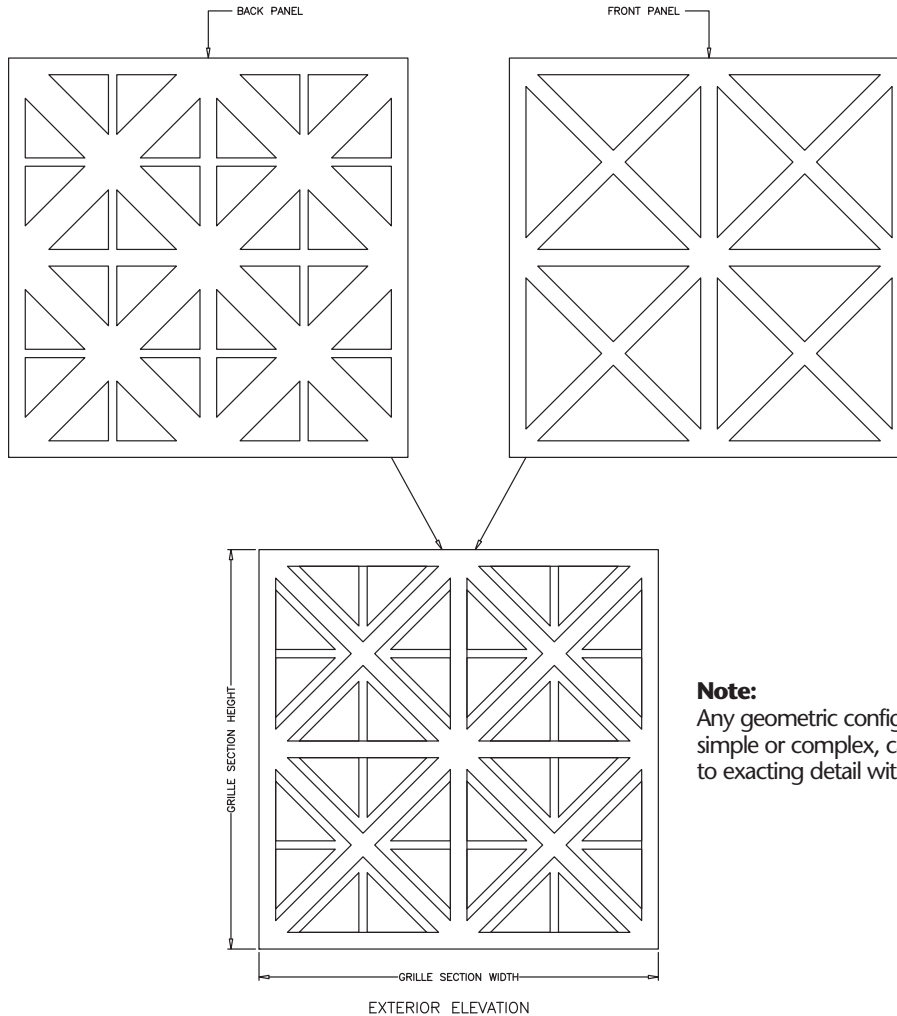
All plate aluminum and frame components shall be assembled with fillet welds concealed from view, unless the size of the grille makes bolted connections between grille sections necessary. Each weld shall be a produced with the Pulsed Gas Metal Arc Welding (GMAW Mig) process. Intermediate connections shall be joined with a 1-inch (25.4 mm) long fillet weld 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 furnished 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 multiples sections (one dimension cannot exceed 72-inches). Grille members, frames, mullions and anchorages shall be demonstrated to withstand the specified wind design load.

*See page 2 for complete finish options*

# GRILLE TYPE SANSOME DETAILS & FINISH OPTIONS



**Note:**  
Any geometric configuration, whether simple or complex, can be reproduced to exacting detail with multiple reveals.

## FINISHES (Select one of the following)

**ACRYLIC ENAMEL:** Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an oven-cured thermosetting acrylic enamel finish that meets or exceeds the performance requirements of AAMA 2603, "Voluntary Specification Performance Requirements and Test Procedures for Pigmented Organic Coatings."

**2-COAT FLUOROPOLYMER:** Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 1.2 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

**3-COAT FLUOROPOLYMER:** Louvers shall be cleaned, pretreated and FINISHED-AFTER-ASSEMBLY with an inhibitive primer and oven-cured Kynar 500® / Hylar 5000® resin coating with minimum 2.0 mils dry-film coating thickness that meets or exceeds the performance requirements of AAMA 2605, "Voluntary Specification, Performance Requirements and Test Procedures for Superior Performance Organic Coatings on Aluminum Extrusions and Panels."

**CLEAR ANODIZE:** Louvers shall be FINISHED-AFTER-ASSEMBLY with a Class I clear anodized coating (AA-M10C22A41) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum."

**COLOR ANODIZE:** Louvers shall be FINISHED-AFTER-ASSEMBLY with a Class I electrolytically color anodized coating (AA-M10C22A42/44) that complies with the performance requirements of AAMA Specification 611-98, "Voluntary Specification for Anodized Architectural Aluminum." Color shall be (select one): Champagne, Light Bronze, Medium Bronze, Dark Bronze, Extra Dark Bronze or Black Anodize.



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