



***Decorative Aluminum Grilles
Guide Specifications – Specialties # 10 82 00***

PART 1 - GENERAL

1.1 Summary

- A. This section includes products to assist in controlling the effects of the sun.
- B. Related work specified elsewhere
 - 1. _____ Concrete Section
 - 2. _____ Sheet Metal Work Section
 - 3. _____ Glazed Aluminum Curtain Wall Section
- C. Work included in this section.

The extent of the extruded aluminum trellis system is shown on the contract drawings and hereby defined to include all sunshade devices of the type shown and specified herein.

1.1 Industry Standard

- A. Reference:

Products and executions are specified in this section by reference to the following industry and/or trade specifications or standards of the following:

National Association of Architectural Metal Manufacturers (NAAMM), the Aluminum Association (AA), American Architectural Manufacturers Association (AAMA).

1.2 Qualifications

- A. Manufacturers:
 - a. Standard

For the purpose of designation type and quality for the work under this section, drawings and specifications are based on the products manufactured by **Architectural Grilles and Sunshades, Inc. (AGS, Inc.)**; 22442, Fey Drive, Frankfort, IL 60448. Phone: (708) 479-9458, Fax: (708) 479-9478.
Email: **Nathan.s@agsshade.com**
 - b. Additional Acceptable Manufacturers:

Subject to compliance with these specifications, products as manufactured by:

 - 1. Pittco Architectural Metals
 - 2. Active Glass Co.

1.3 Submittals:

- A. Product data: Manufacturers technical and descriptive data.
- B. Shop Drawings:
 - a. Submit for architect's approval prior to commencement of any work or fabrication under this section, _____ sets of detail shop drawings showing all areas of work profiles and sections of all components, finishes and fastening details.
- C. Structural Calculations: submit comprehensive analysis of design loads, dead, live, snow, wind and thermal movements. Calculations shall be stamped and signed by a professional engineer registered in the jurisdiction where the project is located.
- D. Warranties:
 - a. The work in this section shall be guaranteed against defects in material and workmanship for a period of one (1) year from date of acceptance of the building. Contractor shall replace and repair any defects at no cost to the owner.

1.4 Components:

- A. Shipping and Handling:

Deliver materials to the job site ready for erection. Assembled units to be packaged and shipped to prevent damage during freight and storage on site.

PART 2 - PRODUCTS

2.1 Materials:

- A. General: Metal shall be free from defects impairing strength, durability, or appearance.
 - 1. Aluminum – ASTM B 221, alloys 6063-T5 and 6063-T6 for extrusions. ASTM B 209, alloys 5052-H32 or greater.
 - 2. Fasteners – Unless otherwise noted, fasteners shall be 300 series non-magnetic stainless steel. ASTM A-307, grade A or better.

2.2 Fabrication, General:

- A. Provide Modular Screen and accessories of design, materials, sizes, depth arrangement, and metal thickness as indicated or as required for optimum performance with respect to strength; durability; and uniform appearance.
- B. Include anchorages and accessories required for complete assembly.

2.3 Screen Construction:

- A. AGS, Inc. Aluminum Screen shall be AGS, Inc. Grille Pattern
1. Model Name _____, as manufactured by Architectural Grilles and Sunshades, Inc.
- B. Bars to be fabricated from extruded aluminum in 6063 T52 alloy and to be minimum .125" thick. Blade connections within the grille shall be accomplished by cross lap joints tack welded where required. Grille to be mechanically secured to horizontal or vertical steel supports (not by AGS, Inc.) with extruded aluminum clip angles. All fasteners to be stainless steel or aluminum.

2.4 Aluminum Finish:

- A. General:
Finish on exposed aluminum shall be compliant with the performance standards set forth in AAMA Specifications 2605-98, "Superior Performing Organic Coatings on Aluminum."
- B. Type:
Factory-applied, high performance, 70% Polyvinylidene Fluoride (PVDF) coating based on Elf Atochem Inc. Kynar 500 or Ausimont USA Inc. Hylar 5000 resin, formulated by a licensed paint manufacturer, and applied by paint manufacturer's warranty-approved applicator.
- C. Pretreatment:
Applicator to pretreat the aluminum with solutions to remove organic and inorganic surface soils, remove residual oxides, followed by a chrome phosphate conversion coating - at minimum 40 mg/square foot – to ensure adhesion of paint to the aluminum.
- D. Application:
One primer coat, one color coat, for a minimum of 1.2 mils of dry film thickness.
- E. Color:
To be determined by the architect

OR

- A. Class I, clear anodic finish: AA-M12C22A41 (Mechanical Finish: Chemical finished: etched, medium matte; anodic coating: Architectural class I, clear coating 0.018 mm or thicker) complying with AAMA 607.1.



PART 3 - EXECUTION:

3.1 Field Dimensions:

- A. Verify conditions: Examine areas where work is to be performed and identify any conditions that could be detrimental to proper or timely completion.
- B. General Contractor Shall field confirm openings and elevations as shown on shop drawings prior to fabrication.
- C. Installation should not proceed until all conditions are satisfactory.

3.2 Erection:

- A. Qualified installer needs to comply with manufacturer's installation instructions.
- B. Verify all dimensions and the supporting structure and provide accurate field measurements, so that the sunshades will be properly designed, fabricated, and fitted to the structure.
- C. Anchor Sunshade to the building per the architectural drawings.
- D. A maximum of +/- 1/8" tolerance between any column to column spacing is acceptable.
- E. Do not cut or trim any Sunshade components without written approval by AGS, Inc.
- F. Do not erect any damaged or deformed members. Remove or replace any damaged members in the erection process as directed by AGS, Inc.
- G. Set Sunshade units level, plumb, with uniform joints.
Qualified installer to erect after all adjacent painting, roofing and masonry has been completed.

3.3 Cleaning:

Clean exterior Sunshades surfaces to prevent buildup of dust and debris, refer to AGS, Inc. cleaning instructions based on the finish of the material

3.4 Protection:

Protect Sunshade materials after installation to prevent damage by other tradespersons.

End of Section 10 82 00