



Section 124813

**PART 1 – GENERAL**

**1.1 SECTION INCLUDES**

- A. Foot Grilles and Frames

**1.2 REFERENCES**

- A. ASCE 7-Building Code Requirements for Minimum Design Loads in Buildings and other structures
- B. ASTM B221 – Aluminum – Alloy Extruded Bars, Rods, Wire, Shapes and Tubes
- C. ASTM B209 – Aluminum – Alloy Sheet and Plate
- D. ASTM D-2047-82-Static Coefficient of Friction

**1.3 PERFORMANCE**

- A. Deflection: Maximum 1/175 over a 4'0" (1220 mm) span under 300 lbs. per square foot loading
- B. Static Coefficient of Friction – Greater than 0.65 in a wet condition

**1.4 SUBMITTALS**

- A. Section 01300 – Submittals: Procedures for submittals
- B. Shop Drawings: Indicate rail configuration, supports, frame profiles, locations, dimensions and installation details
- C. Samples: Provide two (2) sets of colour samples representing manufacturers full range
- D. Installation instructions for each specified product
- E. Closeout Documents – Maintenance, Warranty

## PART 2 – PRODUCTS

### 2.1 MANUFACTURERS

- A. Supplied by **Ontario Specialty Architectural Products LLC**,  
PO Box 392567, Dubai, UAE; T: +97142776760 F: +97142776736  
E-mail: [sales@ontariosa.com](mailto:sales@ontariosa.com) Web: [www.ontariosa.com](http://www.ontariosa.com)  
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Ontario, CA L1W 3N8. Tel. 905-420-0485 / 1-888-624-4557 Fax. 905-420-4564 / 1-888-  
624-4558 Website: [www.mcgillarchitectural.com](http://www.mcgillarchitectural.com) E-mail: [sales@mcgillarchitectural.com](mailto:sales@mcgillarchitectural.com)

### 2.2 MATERIALS AND COMPONENTS

- A. Acceptable Product: AGS-400
- B. Aluminum Members:
1. Extrusions: ASTM B211 Type 6061T6 Alloy
  2. Thickness: Comply with structural loading requirements
    - a. Grilles: T Shaped Rails – .5”(12.7 mm) Tread x 1” (25.4 mm) Depth x .125” (3.2 mm) Thick. Rail surface to be striated at .5” (12.7 mm) centres to create square grid pattern for multi-directional traffic.
    - b. Frames: Type L – Level Base Installation - .080” (2mm) or  
Type D – Deep Style Installation - .080”(2mm)
    - c. Rail Spacers: .5”(12.7 mm) Aluminum Tube
- C. Pans: 16 gauge Aluminum or 20 gauge Galvanized Steel or 24 gauge Stainless Steel
- D. Aluminum Rail Supports Rods – Type 6061-T6 Alloy - .313”(7.95mm) Diameter – Threaded Ends
- E. Corner Clips for Frames – Molded Plastic – Serrated for pressure fit

### 2.3 FABRICATION

- A. Accurately and rigidly fit together joints and corners. Ensure continuity, with connections that are flush, minimal and weatherproof. Frame corners to be mitered.
- B. Assemble frame and supports to maintain weight load requirements. Grilles to be built in section no greater than 48”(1220mm) x 48”(1220mm).

- C. Maintain spacing between rails at maximum .188"(4.76mm)
- D. Pans to be installed in interior base of D Frame with High PSI (260 PSI or greater)  
Waterproof Elastic Adhesive Sealant.
- E. Surfaces in contact with masonry to be corrosion coated.
- F. Provided corrosion resistant anchorage devices.

## **2.4 FINISHES**

- A. All exposed aluminum surfaces to be mill finish  
or All exposed aluminum surfaces to be Clear Anodized Finish

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

- A. Verify that surfaces and openings are ready to receive work and field measurements are as shown on drawings, allowing for square and level tolerances.

### **3.2 INSTALLATION**

- A. Install specified products in accordance with shop drawings and manufacturer's printed installation instructions as per the submittals section.
- B. Coordinate installation method with application of surrounding materials.
- C. Clean all components thoroughly before installation.
- D. Remove debris from recesses to receive frames; sweep recesses clean.

### **3.3 PROTECTION**

- A. Protect all grilles and frames from construction traffic. Grilles should be stored until completion of project or protected by plywood or other substrate to prevent damages.

**END OF SECTION**