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 Web: www.ontariosa.com
Under License of McGill Architectural Products, 1050 Squires Beach Road, Pickering, Ontario, CA L1W 3N8. Tel. 905-420-0485 / 1-888-624-4557 Fax. 905-420-4564 / 1-888-624-4558 Website: www.mcgillarchitectural.com E-mail: sales@mcgillarchitectural.com

2.2 MATERIALS AND COMPONENTS

A. Acceptable Product: AG-200
B. Aluminum Members:
    1. Extrusions: ASTM B211 Type 6061T6 Alloy
    2. Thickness: Comply with structural loading requirements
        a. Grilles: T Shaped Rails – .25” (6.4 mm) Tread x 1” (25.4 mm) Depth x .125” (3.2 mm) Thick
        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-T5 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