



MSU Type FB Aluminum Ladders

Part 1- General

1.1 Standards

- .1 Conform to CAN3-S157 -M83 Strength Design in Aluminum.
- .2 Conform to CSA W59.2 -M191 Welded Aluminum Construction and CSA W47.2-M1987 Certification of Companies for Fusion Welding of Aluminum.

1.2 Quality Assurance

- .1 Welding shall only be undertaken by a company Certified by the Canadian Welding Bureau to the requirements of CSA Standard W47.2-M1987, Certification of Companies for the Fusion Welding of Aluminum.

1.3 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01300 - Submittals.
- .2 Indicate materials, thicknesses, weld symbols, reinforcement, details and accessories.
- .3 Manufacturer shall supply installation drawings and instructions.

Part 2- Products

2.1 Materials

- .1 Aluminum Extruded Shapes: to CSA HA.5-M1980, Alloys 6061, 6063 or 6351- Temper 6.
- .2 Fasteners in 304 stainless steel.

2.2 Fabrication

- .1 Fabricate square, true, and accurate to required size, with joints closely fitted. Remove all burrs and sharp edges.
- .2 Ladder side rails shall be drilled through and rung inserted halfway. Ladder rungs shall be joined to the ladder side rail using GMAW method. Welds shall be ground and polished.
- .3 Rung spacing shall be 300mm centre to centre.
- .4 Attachment brackets shall be spaced at 1500mm maximum centre to centre.
- .5 Aluminum shall be isolated from contact with the concrete with neoprene isolation pads.
- .6 Ladders longer than 6.4M shall be joined with an external splice system.



2.3 Aluminum Ladders

- .1 Provide the appropriate ladders complete with all necessary attachment brackets to the dimensions on the Contract Drawings. Ensure all ladders are:
 - .a assembled using GMAW welding method,
 - .b supplied with 12 x 50mm flat bar side rails,
 - .c supplied with 19 x 22mm top fluted slip-resistant rungs,
 - .d supplied with brackets which are 12 x 50 bent flat bar welded to ladder side rail & offset from the wall face 150mm,
 - .e supplied with 16 x 150mm long 304ss wedge anchor assemblies as manufactured by Hilti, and
 - .f MSU type FB.

Part 3- Execution

3.1 Installation

- .1 Install access ladders where indicated on the drawings.