



MSU Type 1900 Retractable Ladders

Part 1- General

1.1 Standards

- .1 Conform to CAN3-S157 -M83 Strength Design in Aluminum.
- .2 Conform to CSA W59.2 -M1991 Welded Aluminum Construction and CSA W47.2-M1987 Certification of Companies for Fusion Welding of Aluminum.
- .3 Retractable Ladders shall be MSU Mississauga Type 1900 as manufactured by MSU Mississauga Ltd. 2222 S. Sheridan Way, Mississauga, Ontario L5J 2M4, 1-800-268-5336, www.msumississauga.com, sales@msumississauga.com

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.
- .4 Drawing to be stamped by a professional engineer registered in the Province of Ontario.

Part 2- Products

2.1 Materials

- .1 Aluminum Extruded Shapes: to CSA HA.5-M1980, Alloy 6061-T6.
- .2 Fasteners & Rivets: in 304 stainless steel.
- .3 Chain: 5mm dia link in 316 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 Vertical rung spacing shall be 300mm centre to centre.
- .3 Attachment brackets shall be spaced at 1500mm maximum centre to centre.
- .4 Ladder width shall be 400mm inside stringers



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 welded to CSA W47.2,
 - .b equipped with offset wall brackets and wedge anchors,
 - .c supplied with supports and guides to permit ladder to travel vertically in the guides, and
 - .d designed by a professional engineer registered in the Province of Ontario.

Part 3- Execution

3.1 Installation

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