



Safety Ladders - Type 1416

Part 1- General

1.1 Standards

- .1 Conform to CSA W59.1 -M191 Welded Stainless Steel Construction and CSA W47.1-M1987 Certification of Companies for Fusion Welding of Stainless Steel.
- .2 Safety Ladders shall be MSU Mississauga Type 1416 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 W47.1-M1987, Certification of Companies for the Fusion Welding of Stainless Steel.

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 Shall be stamped by a P.Eng. registered in the Province of Ontario.

Part 2- Products

2.1 Materials

- .1 Structural Shapes: 304L Type Stainless Steel.
- .2 Fasteners and Anchoring Systems: 304 stainless steel.
- .3 Slip resistant, perforated rung material: 316L 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 Wall attachment brackets shall be offset 150mm, 180mm or as required.
- .3 Vertical rung spacing shall be 300mm centre to centre.
- .4 Attachment brackets shall be spaced at 1800mm maximum centre to centre.



2.2 Fabrication (continued)

- .5 Ladders longer than 4.2M shall be joined with an external splice system.
- .6 Attachment anchors shall be expansion type for new concrete or as dictated by the concrete.

2.3 Stainless Steel 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 6 x 50mm flat bar side rails,
 - .c supplied with 28 x 43mm 3 hole perforated slip-resistant rungs,
 - .d supplied with brackets which are 6 x 50 bent flat bar welded to ladder side rail & offset from the wall face as required,
 - .e supplied with 12 x 95mm long 304ss wedge anchor assemblies as manufactured by Hilti, and
 - .f MSU type 1416.

Part 3- Execution

3.1 Installation

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