



## Access Hatches - Type MD

### Part 1- General

#### 1.1 Standards

- .1 Conform to CAN3-S157 Strength Design in Aluminum.
- .2 Conform to CSA W59.2 Welded Aluminum Construction and CSA W47.2-M Certification of Companies for Fusion Welding of Aluminum.
- .3 Access Hatches shall be MSU Mississauga Type MD as manufactured by MSU Mississauga Ltd. 2222 S. Sheridan Way, Mississauga, Ontario L5J 2M4, 1-800-268-5336, [www.msumississauga.com](http://www.msumississauga.com), [sales@msumississauga.com](mailto: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, 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, 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, Alloy 6061-T6.
- .2 Aluminum Tread Plate to CSA HA.5 Alloy 6061-T6.
- .3 Fasteners, gas spring, and hold open arms in 316 stainless steel.
- .4 Continuous hinges in 304 and 316 stainless steel. Butt hinges 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 Ensure hinges are vandal proof - secure bolts with nylon insert lock nuts.
- .3 Countersink all fasteners - ensure hatch is flush.



## **2.2 Fabrication (continued)**

- .4 Paint all surfaces coming in contact with concrete with one thick coat of bituminous paint.

## **2.3 Access Hatches**

- .1 Provide the appropriate frames and covers to the dimensions on the Contract Drawings. Ensure all covers are:
  - .a hinged with continuous piano hinges or butt hinges as required,
  - .b framed with a drain channel complete with perimeter anchor flange, 1 1/2" drainage coupling and neoprene sealing gasket,
  - .c provided with a stainless slam lock, sealing plug and removable handle,
  - .d equipped with a retractable lifting handle,
  - .e equipped with a gas spring for easy operation,
  - .f equipped with a hold open arm to restrain an open hatch in a vertical position,
  - .g equipped with tamper proof fasteners,
  - .h equipped with door leaf made of 6.35mm thick slip resistant diamond pattern plate,
  - .i equipped with stainless steel chains and snaps on both open sides, and
  - .j reinforced to withstand a live load of 14.4KN/m<sup>2</sup>.

## **Part 3- Execution**

### **3.1 Installation**

- .1 Install access hatches where indicated on the contract drawings.