



## Access Hatches - Type MSS Stainless Steel

### Part 1- General

#### 1.1 Standards

- .1 Conform to CSA W59.1 Welded Stainless Steel Construction and CSA W47.1 Certification of Companies for Fusion Welding of Stainless Steel.

#### 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, 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, reinforcement, details and accessories.
- .3 Manufacturer shall supply installation drawings.
- .4 Shall be stamped by a P.Eng. registered in the Province of Ontario.

### Part 2- Products

#### 2.1 Materials

- .1 Structural Shapes: Type 304 or 316 Stainless Steel
- .2 Checkered Tread Plate to Type 304 or 316 Stainless steel.
- .3 Fasteners, gas spring, and hold open arm in 316 stainless steel.
- .4 Hinges in 304 and 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.



### **2.3 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,
  - .b framed with a 6mm thick 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 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, and
  - .i reinforced to withstand a live load of 7.2KN/m<sup>2</sup>, 14.4KN/m<sup>2</sup>, CL-625, CL-800 or H-20 Occasional Traffic Loading as defined in the OHBDC.

## **Part 3- Execution**

### **3.1 Installation**

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