



**SPECIAL PROVISIONS  
FOR  
FLOOR HATCHES**

**Woodbury County  
IM-NHS-029-6(257)147--03-97**

**Effective Date  
March 18, 2014**

**THE STANDARD SPECIFICATIONS, SERIES 2012, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**120143.01 DESCRIPTION.**

Prefabricated floor hatches, with integral support curbs, operable hardware, and counterflashings.

**120143.02 MATERIALS.**

**A. Approved Manufacturers.**

- The Bilco Company; Model J-4AL (36 inch by 36 inch), Model JD-4AL (5 feet by 5 feet), or Model JD-3AL (4 feet by 6 feet).
- Halliday Products; Model W1C3636 (36 inch by 36 inch), Model W2C7248 (6 feet by 4 feet), or Model W2C6060 (5 feet by 5 feet)
- Milcor; Model GD-4 (36 inch by 36 inch), Model GD-11 (5 feet by 5 feet), or Model GD-10 (4 feet by 6 feet).
- Nystrom.
- Engineer approved equivalent.

**B. Hatches.**

1. Flush Aluminum Cover: 1/4 inch thick aluminum, to withstand live load of 300 psf with maximum deflection of 1/150th of span; open to 90 degrees and automatically lock with stainless steel hold open arm with release handle.
2. Hatch design shall meet the following criteria: Each hatch opening shall be fitted with a solid water tight cover which overlaps a framed opening and extends down around the frame at least 2 inches. The frame shall be at least 4 inches high. Each cover shall be hinged on one side, and shall have a locking device.
3. Channel Frame: 1/4 inch aluminum with anchor flange.
4. Hardware: Type 316 stainless steel hardware throughout.

5. Provide compression spring operators.
6. Provide 1 1/2 inch drainage coupling in corner of channel frame. Extend pipe through slab and plug end to prevent leaking to room below.
7. For all floor hatches with ladders below, provide and install stainless steel Ladder-Up safety post; Bilco LU-3 or approved equivalent.
8. Hinges: Heavy-duty stainless steel pin type
9. Finishes for all aluminum hatches: Mill finish with bituminous coating on frame exterior where surfaces are in contact with concrete.

**C. Fabrication.**

1. Fabricate components free of visual distortion or defects. Weld corners and joints.
2. Provide for removal of condensation occurring within components or assembly.
3. Fit components for weather-tight assembly

**120143.03 CONSTRUCTION.**

**A. Submittals.**

1. Product Data: Submit manufacturer's product literature.
2. Submit shop drawings detailing installation and connection to structural members.

**B. Examination.**

Verify areas are ready to accept.

**C. Execution / Installation / Applications.**

Install in accordance with manufacturer's instructions and as indicated on Drawings.

**120143.04 METHOD OF MEASUREMENT.**

Incidental to Siphon Structures

**120143.05 BASIS OF PAYMENT.**

Incidental to Siphon Structures and will not be paid for separately.