

SP- 090183
(New)



Iowa Department of Transportation

**SPECIAL PROVISIONS
FOR
FLOOR HATCHES**

Woodbury County

IM-029-7(51)149--13-97

**Effective Date
February 21, 2012**

THE STANDARD SPECIFICATIONS, SERIES 2009, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Prefabricated aluminum floor hatches.

1.02 SUBMITTALS

- A. Product Data: Submit manufacturer's product literature.
- B. Submit shop drawings detailing installation and connection to structural members.

PART 2 PRODUCTS

2.01 MANUFACTURED UNIT(S) OR MATERIALS

- A. Description: Access floor hatches.
- B. Approved manufacturers.
 1. The Bilco Company; J-AL-R series.
 2. Halliday Products; F1R series.
 3. Milcor.
 4. Nystrom.

2.02 HATCHES

- A. Flush Aluminum Cover: 1/4 inch thick aluminum, to withstand live load of 300 pounds per square foot with maximum deflection of 1/150th of span; open to 90 degrees and automatically lock with stainless steel hold open arm with release handle.
- B. Channel Frame: 1/4 inch aluminum with anchor flange.
- C. Hardware: Type 316 stainless steel hardware throughout.
- D. Provide compression spring operators.
- E. Provide 1 1/2 inch drainage coupling in corner of channel frame.
- F. Provide safety fall protection FRP grating below hatch opening.
- G. Provide odor control gasket that exhibits air infiltration rate of less than 1 cubic foot per minute per linear foot of cover perimeter while under a pressure differential across the cover of 1 inch water column.
- H. Hinges: Heavy-duty stainless steel pin type
- I. Finishes for all aluminum hatches: Mill finish.

2.03 FABRICATION

- A. Fabricate components free of visual distortion or defects. Weld corners and joints.
- B. Provide for removal of condensation occurring within components or assembly.
- C. Fit components for weather-tight, odor reducing, assembly.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify areas are ready to accept material.

3.02 EXECUTION / INSTALLATION / APPLICATIONS

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