

TYPE B-AHS STEEL ACCESS DOOR SPECIFICATION

I. PART ONE - GENERAL

1.01 SUMMARY

- A. Work included: Furnishing and installing factory fabricated vault access doors
- B. Related Work:

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM), 100 Bar Harbor Drive, West Conshocken, PA 19428-2959; (610) 832-9585, fax (610) 832-9555
 - 1. ASTM A 36-93a: Standard Specification for Structural Steel

1.03 SUBMITTALS

- A. Product Data: Provide manufacturer's product data for all materials in this specification.
- B. Shop Drawings: Show profiles, accessories, location, and dimensions.
- C. Samples: Manufacturer to provide upon request; sized to represent material adequately.
- D. Contract Closeout: Vault access door manufacturer shall provide the manufacturer's Warranty prior to the contract closeout.

1.04 PRODUCT HANDLING

- A. All materials shall be delivered in manufacturer's original packaging.
- B. Store materials in a dry, protected, well-vented area. The contractor shall thoroughly inspect product upon receipt and report damaged material immediately to delivering carrier and note such damage on the carrier's freight bill of lading.
- C. Remove protective wrapping immediately after installation.

1.05 SUBSTITUTIONS

- A. Proposals for substitution products shall be accepted only from bidding contractors and not less than (10) working days before bid due date. Contractor guarantees that proposed substitution shall meet the performance and quality standards of this specification.

1.06 JOB CONDITIONS

- A. Verify that other trades with related work are complete before installing vault access door(s).
- B. Mounting surfaces shall be straight and secure; substrates shall be of proper width.
- C. Refer to the construction documents, shop drawings, and manufacturer's installation instructions.
- D. Observe all appropriate OSHA safety guidelines for this work.

1.07 WARRANTY/GUARANTEE

- A. Manufacturer's standard warranty: Materials shall be free of defects in material and workmanship for a period of (5) five years from the date of purchase. Should a part fail to function in normal use within this period, manufacturer shall furnish a new part at no charge.

II. PART TWO - PRODUCTS

2.01 MANUFACTURER

- A. U.S.F. Fabrication, Inc. 3200 W. 84 ST, Hialeah, FL 33018 – Toll Free: 800.258.6873 Fax: 305.882.1577
E-mail: service@usffab.com Website: www.usffab.com

2.02 ACCESS DOOR

- A. Furnish and install where indicated on plans vault access door Type B-AHS, [insert: width (_____) x length (_____)] The vault watertight (floodtight/gastight) access door shall be Model B-AHS (single leaf). The entire assembly shall be manufactured and assembled in the USA.

- B. Performance characteristics:
 1. The heavy-duty watertight (floottight/gastight) steel frame floor access door is designed for interior and exterior applications where water and gastightness are required.
 2. Cover: Shall be reinforced to support an AASHTO H20-44 wheel load (16,000 LB wheel load over a 10" x 20" area with 30% impact factor) with a maximum deflection of 1/150th of the span. Upon request, manufacturer shall provide structural calculations showing that the door design meets the loading requirements of AASHTO H20-44. (Note: For installation in locations with AASHTO H20 occasional parking lot wheel loads that do not exceed 15 mph)
 3. The bottom of the cover shall have a continuous groove to securely hold a 9/16" diameter EPDM gasket around its perimeter.
 4. The cover shall have 316 stainless steel 1/2" x 1-1/4" hex bolt to compress the gasket so that the door will not leak from standing water.
 5. The entire frame including the seat on which the reinforcing rests shall be supported by concrete or other material designed to support the specified load.
- C. Cover: Shall be 1/4" thick (6.3 mm) steel galvanized diamond plate reinforced to support AASHTO H20 wheel loads (capable of holding up to 25 ft. head of water).
- D. Frame: shall be 3/8" thick (9.5 mm) steel galvanized with 3/16" x 1-1/2" strap anchors welded around the frame for casting into concrete.
- E. Handle: The floor access door shall be equipped with a flush floottight handle that does not protrude above the cover.
- F. Lifting mechanisms: The door shall have stainless steel open horizontal springs to assist in opening the cover and reducing the force during closing. Installation shall be in accordance with the manufacturer's attached instructions.
- G. Hardware:
 1. The door shall have 316 stainless steel hinges with 316 stainless steel flat head bolts.
 2. Cover shall be equipped with a 316 stainless steel hold open arm with red vinyl grip that automatically keeps the cover in its upright, open position.
- H. Finishes:
 1. Factory finish shall be steel galvanized

III. PART THREE - EXECUTION

3.01 INSPECTION

- A. Verify that the vault access door installation will not disrupt other trades. Verify that the substrate is dry, clean, and free of foreign matter. Report and correct defects prior to any installation.

3.02 INSTALLATION

- A. Submit product design drawings for review and approval to the architect or specifier before fabrication.
- B. The installer shall check as-built conditions and verify the manufacturer's vault access door details for accuracy to fit the application prior to fabrication. The installer shall comply with the vault access door manufacturer's installation instructions. Installer shall insure that the entire unit is installed level and square to insure proper performance.
- C. The installer shall furnish mechanical fasteners consistent with the vault access door manufacturer's instructions.