

## SECTION 08310

### TYPE AHSALUMINUM 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 (10) Ten 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](mailto:service@usffab.com) Website: [www.usffab.com](http://www.usffab.com)

##### 2.02 ACCESS DOOR

- A. Furnish and install where indicated on plans vault access door Type AHS, [insert: width (\_\_\_\_) x length (\_\_\_\_)] The vault access door shall be type AHS (single leaf). The entire assembly shall be manufactured and assembled in the USA.

- B. Performance characteristics:
  - 1. 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. Manufacturer to provide structural calculations stamped by a registered professional engineer upon request. (Note: For installation in off-street locations that may occasionally receive AASHTO H20 wheel loads)
  - 2. The cover shall be opened using the flush lifting handle to insure controlled operation throughout the entire arc of opening and closing.
- C. Cover: Shall be 1/4" (6.3 mm) aluminum diamond plate reinforced to support AASHTO H20 wheel loads.
- D. Frame: Angle frame shall be minimum 1/4" (6.3mm) extruded aluminum with a continuous anchor flange around the entire perimeter of the frame.
- E. Hinges: Shall be through bolted to the cover with tamperproof type 316 stainless steel bolts and locknuts and shall be through bolted to the frame with Type 316 stainless steel bolts and locknuts.
- F. A flush lifting handle shall be provided
- G. Lifting mechanisms: (OPTIONAL) Manufacturer shall provide the proper amount of lift assist to insure that the cover can be opened by one person with no more than 40lbs of lifting force required.
- H. Hardware:
  - 1. Hinges Type 316 stainless steel hinges shall be provided.
  - 2. Cover shall be equipped with a 316 stainless steel hold open arm, with secondary latch which locks the cover in its full upright and open position.
  - 3. A watertight 316 stainless steel slam lock with threaded plug, removable outside key and fixed inside handle shall be mounted on the underside of the cover.
  - 4. Hardware: Shall be Type 316 stainless steel throughout.
- I. Finishes:
  - 1. Factory finish shall be mill finish aluminum (OPTIONAL) with bituminous coating applied to the exterior of the frame.
  - 2. An adhesive backed vinyl material, that protects the product during shipping and installation, shall cover the entire top of the door

### 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.