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USACE / NAVFAC / AFCEA / NASA UFGS-11020 (November 2003)  
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Preparing Activity: USACE

MasterFormat™ 2004 - 08 34 59  
Superseding  
UFGS-11020 (August 2002)

## UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 23 June 2005

Revised throughout - Changes not indicated by CHG tags

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11/03

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### SECTION 11020

#### SECURITY VAULT DOOR

11/03

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NOTE: This guide specification covers the requirements for vault door units meeting the protective storage criteria for classified materials.

Comments and suggestions on this guide specification are welcome and should be directed to the technical proponent of the specification. A listing of technical proponents, including their organization designation and telephone number, is on the Internet.

Recommended changes to a UFGS should be submitted as a Criteria Change Request (CCR).

Use of electronic communication is encouraged.

Brackets are used in the text to indicate designer choices or locations where text must be supplied by the designer.

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## PART 1 GENERAL

### 1.1 REFERENCES

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NOTE: This paragraph is used to list the publications cited in the text of the guide specification. The publications are referred to in the text by basic designation only and listed in this paragraph by organization, designation, date, and title.

Use the Reference Wizard's Check Reference feature when you add a RID outside of the Section's Reference Article to automatically place the reference in the Reference Article. Also use the Reference Wizard's Check Reference feature to update

the issue dates.

References not used in the text will automatically be deleted from this section of the project specification when you choose to reconcile references in the publish print process.

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The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

U.S. GENERAL SERVICES ADMINISTRATION (GSA)

FS AA-D-600

(Rev C, Am 1) Door, Vault, Security

## 1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01330 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Choose the first bracketed item for Navy, Air Force and NASA projects, or choose the second bracketed item for Army projects.

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Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for [Contractor Quality Control approval.] [information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government.] The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

## SD-02 Shop Drawings

Vault door Unit[; G][; G, [\_\_\_\_]]  
Day gate[; G][; G, [\_\_\_\_]]

Show head, jamb, and sill sections, and elevations of the doors  
[and gate].

## SD-03 Product Data

### Vault Door and Frame

Manufacturer's catalog data including catalog cuts and brochures. The data shall show that the proposed vault door unit conforms with the requirements in FS AA-D-600, and has been tested and approved by the General Services Administration (GSA).

## SD-07 Certificates

Vault Door and Frame[; G][; G, [\_\_\_\_]]

Certification shall state that vault-door units that do not bear the GSA label are constructed to Class 5 standards.

## SD-08 Manufacturer's Instructions

### Installation

Printed instructions and drawings provided by the manufacturer.

## 1.3 GENERAL REQUIREMENTS

The vault door unit shall be a steel security-vault type door with frame, [day gate], and ramp type threshold, and shall be a standard product of a manufacturer specializing in this type of fabrication.

## 1.4 DELIVERY AND STORAGE

Door and frame assemblies shall be delivered to the jobsite in a protective covering with the brand and name clearly marked thereon. Materials delivered to the jobsite shall be inspected for damage, and unloaded with a minimum of handling. Storage shall be in a dry location with adequate ventilation, free from dust, water, and other contaminants, and which permits easy access for inspection and handling. Door assemblies shall be stored off the floor on nonabsorptive strips or wood platforms. Damage to doors and frames shall be prevented during handling. Damaged items that cannot be restored to like-new condition shall be replaced.

## PART 2 PRODUCTS

### 2.1 VAULT DOOR AND FRAME

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**NOTE:** Select the appropriate Type and Style designation for the door, and delete inapplicable portions. Although FS AA-D-600 covers both a Class 5 and a Class 6 door, only the Class 5 door is presently available. Both the Class 5 and Class 6 doors afford protection for 20 man-hours against

surreptitious entry, 30 man-minutes against covert-entry, and 20 man-hours of radiological attack. In addition, the Class 5 door affords protection for 10 man-minutes against forced entry.

Type: Select the appropriate door type or types, and delete those not applicable. "Right opening swing" means hinges to the right when viewed from outside the vault. Specify the optical device only when requested by the Using Agency.

Style: Specify Style K unless Style H is requested by the Using Agency.

Design: Design S - single lock. Design B - No exterior hardware. Design S, the default value, is more available. If B is a customer requirement, check availability with manufacturers on the QPL.

APPROVAL OF AN EXCEPTION TO APPLICABLE SECURITY REQUIREMENTS MUST BE OBTAINED BY THE USING ACTIVITY THROUGH THEIR OPERATIONAL CHAIN OF COMMAND FOR PROVISION AND INSTALLATION OF ANY AND ALL SECURITY VAULT DOORS WITHOUT A GSA-APPROVED LABEL. The GSA labeled vault door is a single-leaf door, and provides a clear opening of 1015 mm (40 inches) wide and 1980 mm (78 inches) high. A double-leaf vault door is available with a clear opening of 2080 mm (82 inches) wide and 1980 mm (78 inches) high. Both single-leaf and double-leaf vault doors may be obtained to satisfy special size requirements. The double-leaf and special size units are built to Class 5 standards, but are not tested and labeled by GSA. When custom size doors are required, verify availability with door manufacturers, and verify the acceptability of unlabeled doors with the Using Agency.

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Design and construction of the door and frame assembly shall conform to FS AA-D-600. The door shall be Class 5, Type [IR - right opening swing with optical device] [IL - left opening swing with optical device] [IIR - right opening swing without optical device] [IIL - left opening swing without optical device] [III R - double leaf, right opening swing active leaf] [III L - double leaf, left opening swing active leaf], Style [H - hand change combination lock] [K - key change combination lock], Design [S - single lock] [B - no exterior hardware]. [The optical device shall permit observation from the [inside to the outside] [outside to the inside] of the vault.]

## 2.2 DAY GATE

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NOTE: The day gate is not covered by FS AA-D-600. Specify the day gate only when specifically requested by the Using Agency.

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The day gate shall be the manufacturer's [standard] [custom] product

designed for use with the vault door furnished, and shall provide access control [and visual security] [and [material] [equipment] [weapons] issue].

The gate shall be hinged on the same side as the vault door, shall swing into the vault, and shall have a locking device operable from outside by key and from inside by knob or handle. [Gate shall include an issue port hatch [and [2.5] [ ] mm [12] [ ] gage thick steel shelf]. The issue port shall be a framed 200 by 300 mm 8 by 12 inch opening with a minimum [0.8] [ ] mm [22] [ ] gage thick steel protective door (hatch cover) which is hinged and lockable from the interior side. The issue port frame shall be welded to the day gate. [The shelf shall be [300] [ ] mm [12] [ ] inches deep by width to match the port hatch.]] Provide the manufacturer's standard finish. The day gate shall not interfere with the operation of vault door inner escape device.

### PART 3 EXECUTION

#### 3.1 INSTALLATION

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NOTE: The door frame is a nongrout type and is adaptable to walls of 150, 200, 250, or 300 mm (6, 8, 10, or 12 inch) thickness with a 13 mm (1/2 inch) tolerance. Where required, the availability of frames to accommodate thicker walls should be verified with manufacturers. Construction and wall opening size requirements will vary between manufacturers. There is no need to detail the door or frame; however, the walls must be detailed as necessary to show reinforcing. Wall opening sizes should be shown as "approximate," with the final size to be as determined by the vault door manufacturer.

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The vault door assembly shall be installed in strict compliance with the printed instructions and drawings provided by the manufacturer. The day gate shall be installed in a manner that will not interfere with operation of the release handle on the inside of the vault door. After installation, the door, the locking mechanism, and the inner escape device shall be adjusted for proper operation.

-- End of Section --