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USACE / NAVFAC / AFCEC / NASA	**UFGS-08 34 59 (August 2008)**
	Change 1 - 11/12

Preparing Activity: USACE	**Superseding**
	UFGS-08 34 59 (April 2006)
	UFGS-08 34 53.00 40 (June 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated July 2023

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08/08, CHG 1: 11/12

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SECTION 08 34 59

VAULT DOORS AND DAY GATES
08/08, CHG 1: 11/12

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

Adhere to UFC 1-300-02 Unified Facilities Guide Specifications (UFGS) Format Standard when editing this guide specification or preparing new project specification sections. Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable item(s) or insert appropriate information.

Remove information and requirements not required in respective project, whether or not brackets are present.

Comments, suggestions and recommended changes for this guide specification are welcome and should be submitted as a Criteria Change Request (CCR).

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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 Reference Identifier (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 are automatically 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 D, Am 1; Am 4) Door, Vault, Security

U.S. GREEN BUILDING COUNCIL (USGBC)

LEED BD+C	(2009; R 2010) Leadership in Energy and Environmental Design(tm) Building Design and Construction (LEED-NC)

1.2 SUSTAINABILITY REPORTING

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NOTE: The bracketed items are representative of LEED material documentation and requirements that may apply to this project. These items should be edited to reflect the project requirements.

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Materials in this technical specification may contribute towards contract compliance with sustainability requirements. See Section 01 33 29 SUSTAINABILITY REQUIREMENTS AND REPORTING for project LEED BD+C [local/regional materials][and][recycled content] and LEED documentation requirements.

1.3 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list, and corresponding submittal items in the text, to reflect only the submittals required for the project. The Guide Specification technical editors have classified those items that require Government approval, due to their complexity or criticality, with a "G." Generally, other submittal items can be reviewed by the Contractor's Quality Control System. Only add a “G” to an item, if the submittal is sufficiently important or complex in context of the project.

For Army projects, fill in the empty brackets following the "G" classification, with a code of up to three characters 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.

The "S" classification indicates submittals required as proof of compliance for sustainability Guiding Principles Validation or Third Party Certification and as described in Section 01 33 00 SUBMITTAL PROCEDURES.

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" or "S" classification. Submittals not having a "G" or "S" classification are [for Contractor Quality Control approval.][for information only. When used, a code following the "G" classification identifies the office that will review the submittal for the Government.] Submit the following in accordance with Section 01 33 00 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Vault Door Unit; G[, [_____]]
Day Gate; G[, [_____]]

SD-03 Product Data

Vault Door and Frame

SD-07 Certificates

Vault Door and Frame

SD-08 Manufacturer's Instructions

Installation

SD-11 Closeout Submittals

LEED Documentation

1.4 DELIVERY, STORAGE, AND HANDLING

Deliver door and frame assemblies to the jobsite in a protective covering with the brand and name clearly marked thereon. Inspect materials delivered to the jobsite for damage, and unload them with a minimum of handling. Store in a dry location with adequate ventilation, free from dust, water, and other contaminants, and allowing easy access for inspection and handling. Store door assemblies off the floor on nonabsorptive strips or wood platforms. Prevent damage to doors and frames during handling. Replace damaged items that cannot be restored to like-new condition.

PART 2 PRODUCTS

2.1 SYSTEM DESCRIPTION

Provide vault door unit consisting of a steel security-vault type door with frame, [day gate], and ramp type threshold, which is a standard product of a manufacturer specializing in this type of fabrication. Submit drawings showing head, jamb, and sill sections, and elevations of the doors [and gate].

2.2 VAULT DOOR AND FRAME

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NOTE: Select the appropriate Type and Style designation for the door, and delete inapplicable portions. FS AA-D-600 covers the following classes of security vault doors: Class 5-V: Vault door resistant to 20 man-hours surreptitious entry, 30 man-minutes covert entry, and 10 man-minutes forced entry.

Electro-mechanical lock. Primarily used for storage of classified information.
Class 5-A: Armory door resistant to 30 man-minutes covert entry and 10-man minutes forced entry.
Mechanical lock. Primarily used for storage of arms.
Class 5-B: Ballistic door resistant to 20 man-hours surreptitious entry, 30 man-minutes covert entry, and 10 man-minutes forced entry.
Electro-mechanical lock. Similar to class 5-V but is ballistic resistant.

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. Obtain both single-leaf and double-leaf vault doors 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 construct the door and frame assembly in conformance with FS AA-D-600. Provide a door which is Class [5-V] [5-A] [5-B], 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] [IIIR – double leaf, active right opening swing] [IIIL – double leaf, active left opening swing], Style [H – hand change combination lock] [K – key change combination lock], Design [S – single lock] [B – no exterior hardware]. [The optical device must permit observation from the [inside to the outside] [outside to the inside] of the vault.] Submit manufacturer’s catalog data including catalog cuts and brochures showing 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). Submit certification stating that the vault-door units that do not bear the GSA label are constructed to Class [5-V] [5-A] [5-B] standards.

2.3 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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Provide a day gate which is the manufacturer's [standard] [custom] product designed for use with the vault door furnished, and that provides access control [and visual security] [and [material] [equipment] [weapons] issue]. The gate must be hinged on the same side as the vault door, swing into the vault, and have a locking device operable from outside by key and from inside by knob or handle. [Include an issue port hatch [and [2.5] [_____] mm [12] [_____] gage thick steel shelf]. The issue port must 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. Weld the issue port frame to the day gate. [The shelf must be [300] [_____] mm [12] [_____] inches deep by width to match the port hatch.]] Provide the manufacturer's standard finish. The day gate must 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 must be verified with manufacturers. Construction and wall opening size requirements vary between manufacturers. There is no need to detail the door or frame; however, the walls must be detailed as necessary to show

reinforcing. Show wall opening sizes as "approximate," with the final size to be as determined by the vault door manufacturer.
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Install the vault door assembly in strict compliance with the printed instructions and drawings provided by the manufacturer. Install the day gate in a manner that does not interfere with operation of the release handle on the inside of the vault door. After installation, adjust the door, the locking mechanism, and the inner escape device for proper operation. Submit printed instructions and drawings provided by the manufacturer.

-- End of Section --