UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated July 2023
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SECTION TABLE OF CONTENTS

DIVISION 08 - OPENINGS

SECTION 08 34 58

FILE ROOM DOORS AND FRAMES

08/08

PART 1 GENERAL

1.1 REFERENCES
1.2 SUBMITTALS
1.3 DELIVERY, STORAGE, AND HANDLING

PART 2 PRODUCTS

2.1 VAULT DOOR UNIT
2.2 DOORS
2.3 Frames and Sills
2.4 Day Gate

PART 3 EXECUTION

3.1 INSTALLATION

-- End of Section Table of Contents --

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USACE / NAVFAC / AFCEC / NASA **UFGS-08 34 58 (August 2008)**

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SECTION 08 34 58

FILE ROOM DOORS AND FRAMES
08/08

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NOTE: This guide specification covers the requirements for non-security type fire-insulated record-vault doors.

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 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.

UNDERWRITERS LABORATORIES (UL)

UL 140	(2006; Reprint May 2023) Relocking Devices for Safes and Vaults
UL 155	(2000; Reprint Aug 2013) Standard Tests for Fire Resistance of Vault and File Room Doors
UL 768	(2006; Reprint Jul 2013) Standard for Combination Locks

1.2 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

Doors

Day Gate

Frames and Sills

Hardware

SD-03 Product Data

Vault Door Unit

Doors

Day Gate

Frames and Sills

SD-07 Certificates

Vault Door Unit

Frames and Sills

Hardware

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver, store and handle doors and frames in a manner that prevents damage.

PART 2 PRODUCTS

2.1 VAULT DOOR UNIT

Provide an insulated, steel, flat-sill, record-vault-type door with frame that is a standard product of a manufacturer specializing in this type of construction.

2.2 DOORS

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NOTE: When the required clear opening for the door is in excess of 1000 mm 40 inches in width, a pair

of doors must be used.
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Design and construction of doors must be manufacturer's standard with a UL 155 fire-resistant classification for a [6-hour] [4-hour] [2-hour] exposure rating, bearing the UL label on the door and frame for the exposure rating required. Provide doors of the size indicated. The finish for door, frame, and hardware must be the manufacturer's standard for the type door indicated. Provide each door equipped with a relocking device conforming to UL 140 and with an inner escape device that permits the bolt work to be released from inside the vault. [Escape mechanism to be panic bar type or other approved type requiring no tools or special instructions for operation.] [Provide printed instructions for operating the escape device inside the vault near the escape device release.] Provide Hardware meeting the following specifications:

a. Provide [not less than 5 bolts for the door] [five bolts for each side of the door]. Each bolt must be greater than 17 mm 11/16 inch in diameter and permanently lubricated. When the bolts are not located on both jamb sides of the door, the jamb side not provided with bolts must interlock with the frame walls of that side. Exposed bolt work must be corrosion resistant or nickel plated steel.

b. Provide each door with not less than three heavy, offset roller or ball bearing steel hinges, unless noted otherwise on the drawings.

c. Provide a combination lock that complies with UL 768, Group 1R, for each door. Provide locking mechanism operated by means of a lever handle. Provide locks that are combination 3 or 4 tumbler, key or hand-changing type with metal cases protected by drill-resistive steel plates and operated by lever handles. The front-plate of the doors must be not lighter than 1.5 mm 0.060 inch steel plate either riveted or welded to the edge plates. Edge plates and back plates of doors must be not lighter than 0.81 mm 0.032 inch steel. Lock must be [highly resistant to expert manipulation conforming to UL 768, Group I, combination locks.][reasonably resistant to unauthorized opening conforming to Group II of UL 768 combination locks.]

d. Submit installation drawings which include details of construction, method of anchorage and type and location of the following: Vault Door Units, Hardware, Frames and Sills, and Day Gate

e. The label or listing of the Underwriters Laboratories, for fire-resistance classification and safety-relocking devices is acceptable as sufficient evidence that the vault-door unit conforms to these requirements. In lieu of such label or listing, submit a written certificate from any nationally recognized testing agency adequately equipped and competent to perform such services, stating that the vault-door unit has been tested and that this unit conforms to the requirements listed herein, including methods of testing of the Underwriters Laboratories, Inc.

f. Submit certificates attesting that the vault-door unit, frames, sills, and hardware furnished under this specification conform with the referenced standards contained in this section and to the requirements of the Underwriters Laboratories.

2.3 Frames and Sills

Provide frames of the tongue-and-groove interlocking type, constructed of not lighter than 1.2 mm 0.0478 inch cold-formed steel, formed from a single length for each jamb and a single length for the head. Continuously weld head and jambs along the entire intersection. Sills must be flat and not less in width than the jambs. Provide frame, jambs and heads insulated with the same material as the door. Design the frame for the thickness of vault wall indicated. Submit Manufacturer's descriptive data and catalog cuts and preprinted installation instructions.

2.4 Day Gate

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NOTE: If no day gate is required, omit this paragraph in its entirety.
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The vault door unit must include a day gate of the manufacturer's standard make, and the door frame designed to accommodate this day gate. The gate must be of the swing-in, hinged type, with not less than 15 mm 5/8 inch diameter rods, and the gate frame of not less than 10 mm 3/8 inch by 31 mm 1-1/4 inch aluminum or steel members. Provide the day gate equipped with a locking device arranged to permit locking and unlocking of the gate[from the inside only]. Finish of the day gate must be the manufacturer's standard. The day gate must not interfere with the operation of the inner escape device.

PART 3 EXECUTION

3.1 INSTALLATION

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NOTE: If carpet is to be installed in front of the door, increase the height of the wall opening by the combined thickness of the carpet and pad.
****

Install the vault door unit in strict compliance with the approved installation 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 for proper operation.

-- End of Section --