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USACE / NAVFAC / AFCEA / NASA                      UFGS-08 34 53.00 40 (April 2006)  
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Preparing Activity:    NASA                      Superseding  
   NASA-11025S (December 2005)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are NOT in agreement with UMRL dated 01 April 2006

Revised throughout - changes not indicated by CHG tags

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### SECTION 08 34 53.00 40

#### FIRE INSULATED, RECORD VAULT DOORS 04/06

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NOTE: Delete, revise, or add to the text in this section to cover project requirements. Notes are for designer information and will not appear in the final project specification.

This section covers fire insulated, record vault doors, complete with installation and appropriate hardware.

Drawings must show location, dimensions, and installation details.

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.

#### UNDERWRITERS LABORATORIES (UL)

- |        |  |
|--------|--|
| UL 140 | (1998) Standard for Safety Relocking Devices for Safes and Vaults      |
| UL 155 | (2005) Standard Tests for Fire Resistance of Vault and File Room Doors |
| UL 768 | (1999; R 2005e7) 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 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.][for information only. When used, a designation following the  
"G" designation 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

Installation drawings shall be submitted which include details of  
construction, method of anchorage and type and location of the  
following:

Vault-Door Units  
Hardware  
Frames and Sills  
Day Gate

#### SD-03 Product Data

Manufacturer's catalog data shall be submitted for the following  
items:

Doors  
Frames and Sills  
Day Gate

#### SD-07 Certificates

Certificates shall be submitted for the following items showing  
conformance with the referenced standards contained in this  
section.

Doors  
Hardware  
Frames and Sills  
Day Gate

### 1.3 DELIVERY, HANDLING, AND STORAGE

Doors and frames shall be delivered, stored, and handled in a manner that  
will prevent damage.

## PART 2 PRODUCTS

### 2.1 GENERAL

Vault-Door Units shall be insulated, steel, flat sill, record vault doors  
with frames and shall be the standard product of a manufacturer  
specializing in this type of construction.

## 2.2 DOORS

Design and construction of doors shall be the manufacturer's standard, shall have the fire resistant classification conforming to [UL 155](#), and shall bear the UL label on the door and frame for the exposure rating required.

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**NOTE: Select the exposure rating required.**  
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Exposure rating shall be [6] [4] [2] hours.

Doors shall be of the size indicated.

[Hardware](#) shall meet the following specifications:

There shall be five bolts for each side of the door, [M18 11/16-inch](#) diameter minimum, permanently lubricated. Exposed bolt work shall be corrosion resistant or nickel plated steel.

Relocking devices shall conform to [UL 140](#).

Escape mechanisms shall be panic bar type or other approved type requiring no tools or special instructions for operation.

Hinges shall be the offset type with roller or ball bearings, three per door, unless otherwise noted on the drawings.

Locks shall be combination three- or four-tumbler key changing type with metal cases protected by case hardened drill resistive steel plates and operated by lever handles.

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**NOTE: Select one of the following.**  
\*\*\*\*\*

[Lock shall be highly resistant to expert manipulation and conform to [UL 768](#), Group I, combination locks.]

[Lock shall be reasonably resistant to unauthorized opening and conform to Group II of [UL 768](#) combination locks.]

## 2.3 FRAMES AND SILLS

Frame shall be the tongue-and-groove interlocking type constructed of cold formed steel, formed from a single length for each jamb, and a single length for the head. Heads and jambs shall be continuously welded along the entire intersection. Sills shall be flat and not less in width than the jambs. Frame jambs and heads shall be insulated with the same material as the door. Frame shall be designed for the indicated thickness of the vault wall.

## 2.4 FINISH

Finish for doors, frames, and hardware shall be the manufacturer's standard type.

## 2.5 DAY GATE

Vault door unit shall include a day gate of the manufacturer's standard make; the door frame shall be designed to accommodate the day gate. Gate shall be the swing-in hinged type, with not less than 15 millimeter diameter rods, and the gate frame shall be not less than 10 by 32 millimeter 3/8- by 1-1/4-inch steel members. Gate shall be equipped with locking devices arranged to permit locking and unlocking the gate from the inside only. Finish shall be the manufacturer's standard finish. Gate shall not interfere with the operation of escape devices.

## PART 3 EXECUTION

### 3.1 INSTALLATION

Vault door unit shall be installed in strict compliance with the approved printed instructions and drawings provided by the manufacturer.

### 3.2 ADJUSTMENT

After installation, the inner escape device shall be adjusted for proper operation.

-- End of Section --