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USACE / NAVFAC / AFCEA UFGS-11022 (August 2004)  
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Preparing Activity: USACE Superseding  
UFGS-11022A (August 2003)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated 25 June 2004

Latest change indicated by CHG tags

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### SECTION 11022

DOORS; FIRE-INSULATED, RECORD-VAULT  
08/04

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

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: Issue (date) of references included in project specifications need not be more current than provided by the latest guide specification. Use of SpecsIntact automated reference checking is recommended for projects based on older guide specifications.

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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	(1997) Relocking Devices for Safes and Vaults
UL 155	(2000) Tests for Fire Resistance of Vault and File Room Doors
UL 768	(1999) Combination Locks

1.2 SUBMITTALS

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NOTE: Submittals must be limited to those necessary for adequate quality control. The importance of an item in the project should be one of the primary factors in determining if a submittal for the item should be required.

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 projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy 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.] The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-03 Product Data

Vault Door Unit

Manufacturer's descriptive data and catalog cuts. Preprinted

installation instructions.

## SD-07 Certificates

### Doors

Certificates certifying that the vault-door unit furnished under this specification conforms to the requirements of the Underwriters Laboratories. The label or listing of the Underwriters Laboratories, for fire-resistance classification and safety-relocking devices will be acceptable as sufficient evidence that the vault-door unit conforms to these requirements. In lieu of such label or listing, a written certificate from any nationally recognized testing agency adequately equipped and competent to perform such services may be submitted, 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.

## PART 2 PRODUCTS

### 2.1 VAULT DOOR UNIT

Vault door unit shall be an insulated, steel, flat-sill, record-vault-type door with frame and shall be a standard product of a manufacturer specializing in this type of construction.

#### 2.1.1 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 will be used.**  
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Design and construction of doors shall be manufacturer's standard and shall have a UL 155 fire-resistant classification for a [6-hour] [4-hour] [2-hour] exposure rating. Doors shall be of the size indicated. The finish for door, frame, and hardware shall be the manufacturer's standard for the type door indicated. Each door shall be equipped with a relocking device conforming to UL 140. The door shall be equipped with an inner escape device which will permit the bolt work to be released from inside the vault. Printed instructions for operating the escape device shall be provided inside the vault near the escape device release. There shall be not less than 5 bolts for the door. Each bolt shall be not less than 17 mm 11/16 inch in diameter. When the bolts are not located on both jamb sides of the door, the jamb side not provided with bolts shall interlock with the frame walls of that side. Each door shall have not less than three heavy, offset roller bearing steel hinges.

#### 2.1.2 Locks

Each door shall have a combination lock that complies with UL 768, Group 1R, for combination locks. The locking mechanism shall be operated by means of a lever handle. Locks shall be combination 3 tumbler, key or hand-changing type with a metal case, and shall be protected by a drill-resistive steel plate. The front-plate of the doors shall 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 shall be of not lighter

than 0.81 mm 0.032 inch steel.

#### 2.1.3 Frame

The frame shall be 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 soffit. Soffit 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 soffit shall be insulated with the same material as the door. The frame shall be designed for the thickness of vault wall indicated.

#### 2.1.4 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 shall include a day gate of the manufacturer's standard make, and the door frame shall be designed to accommodate this day gate. The gate shall be of the swing-in, hinged type, and the gate frame shall be of not less than 9 mm 3/8 inch by 31 mm 1-1/4 inch aluminum or steel members. The day gate shall be equipped with a locking device arranged to permit locking and unlocking of the gate. Finish of the day gate shall be the manufacturer's standard. The day gate shall 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.**  
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The vault door unit shall be installed in compliance with the approved installation instructions. [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 shall be adjusted for proper operation.

-- End of Section --