
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
NASA-11025 (June 2004)
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DIVISION 11 - EQUIPMENT

SECTION 11025

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06/04

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SECTION 11025

FIRE INSULATED, RECORD VAULT DOORS
06/04

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.

PART 1 GENERAL

1.1 REFERENCES

NOTE: The following references should not be manually edited except to add new references. References not used in the text will automatically be deleted from this section of the project specification.

The publications listed below form a part of this section to the extent referenced:

UNDERWRITERS LABORATORIES (UL)

- UL 140 (1997) UL Standard for Safety Relocking Devices for Safes and Vaults
- UL 155 (2000) UL Standard for Safety Tests for Fire Resistance of Vault and File Room Doors
- UL 768 (1999) UL Standard for Safety Combination Locks

1.2 SUBMITTALS

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. Include a columnar list of appropriate products and tests beneath each submittal description.

The following shall be submitted in accordance with Section 01330, "Submittal Procedures," in sufficient detail to show full compliance with the specification:

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.

NOTE: Select the exposure rating required.

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, 11/16-inch M18 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.

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 1/2-inch 15 millimeter diameter rods, and the gate frame shall be not less than 3/8- by 1-1/4-inch 10 by 32 millimeter 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 --