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USACE / NAVFAC / AFCEA / NASA UFGS-09 23 82 (January 2008)  
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Preparing Activity: NASA Superseding  
UFGS-09 23 82.00 40 (April 2006)

UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated July 2009

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### SECTION 09 23 82

#### FIREPROOF GYPSUM PLASTERING 01/08

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NOTE: This section covers fire protection applications of specified plaster bases.

Edit this guide specification for project specific requirements by adding, deleting, or revising text. For bracketed items, choose applicable items(s) or insert appropriate information.

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

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).

Associated work found in other sections includes metal framing, furring systems, and metal lath, and standard gypsum plastering applications.

Drawings must show areas and location of application and installation details.

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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.

ASTM INTERNATIONAL (ASTM)

ASTM E 119 (2008a) Standard Test Methods for Fire Tests of Building Construction and Materials

ASTM E 84 (2009a) Standard Test Method for Surface Burning Characteristics of Building Materials

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2009) International Building Code

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

Submit installation drawings for [Fireproof Plaster](#) in accordance  
with the paragraph entitled, "Application," of this section.

#### SD-03 Product Data

Submit manufacturer's catalog data for [Fireproof Plaster](#) showing  
applicable flame spread classification, fuel contribution, and  
smoke developed.

#### SD-04 Samples

Not less than 0.2 kilogram 1/2 pound of [Fireproofing Plaster](#) mix.

#### SD-07 Certificates

Submit certificates for [Fireproof Plaster](#) showing conformance with  
the [ICC IBC](#), "International Building Code," "Requirements for  
Four-Hour Construction."

#### SD-08 Manufacturer's Instructions

Submit manufacturer's instructions for [Fireproof Plaster](#) including  
special provisions required to install equipment components and  
system packages. Indicate all detail impedances, hazards and  
safety precautions on drawings.

### 1.3 DELIVERY, HANDLING, AND STORAGE

Deliver materials in original unopened packages bearing the name of the  
product, manufacturer's name, and the Underwriters Laboratories, Inc. label.

Store materials off the ground, under cover, and away from damp surfaces  
and keep dry until ready to use. Discard all materials that has been  
exposed to water before use.

## PART 2 PRODUCTS

### 2.1 MATERIALS

#### 2.1.1 [Fireproof Plaster](#)

Provide gypsum-vermiculite fire-proof plaster mix, consisting of one part

gypsum to two parts vermiculite. Plaster must comply with ICC IBC, "International Building Code," "Requirements for 4-Hour Construction."

Cohesion of the dry set material must be such that the fireproofing coat will not crack or delaminate when the structural [steel] element is subjected to a downward deflection of 1/120 of the span.

Minimum compressive strength requirement is not less than 485 kilopascal 70 pounds per square inch.

When tested in accordance with ASTM E 84, the set and dry material must yield the following characteristics:

Flame spread	10
Fuel contributed	5
Smoke developed	0

#### 2.1.2 Water

Use only potable water for mixing.

### PART 3 EXECUTION

#### 3.1 INSTALLATION

##### 3.1.1 General Requirements

Apply fireproofing plaster as specified to those areas indicated on drawings. Install per details as indicated.

##### 3.1.2 Application

Application of fireproofing plaster must be [pneumatic] [or] [and] [trowelled] in accordance with material manufacturer's written recommendations. Provide thickness of application as indicated and in compliance with the applicable codes to provide rated fireproofing when tested in accordance with ASTM E 119.

Framing and furring must be as recommended by manufacturer for the installation of the fireproofing plaster thickness required or as indicated in the drawings.

#### 3.2 ACCEPTANCE PROVISIONS

After completion of fireproofing work, remove all application equipment. Clean all areas of ceilings, walls, and floors, adjacent or exposed to the operations of application of the fireproofing material, and other surfaces and finishes that may have been soiled by fireproofing materials.

Remove any damaged or unacceptable portions of the fireproofing plaster and replace with new work at no additional cost to the Government.

-- End of Section --