
USACE / NAVFAC / AFCEA / NASA UFGS-09 23 82 (May 2010)

Preparing Activity: NASA Superseding
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UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated April 2011

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FIREPROOF GYPSUM PLASTERING

05/10

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SECTION 09 23 82

FIREPROOF GYPSUM PLASTERING 05/10

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

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 items(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).

PART 1 GENERAL

NOTE: Associated work found in other sections includes metal framing, furring systems, and metal lath, and standard gypsum plastering applications. Show areas and location of application and installation details on drawings.

1.1 REFERENCES

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.

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 (2010b) Standard Test Methods for Fire Tests of Building Construction and Materials

ASTM E 84 (2010b) Standard Test Method for Surface Burning Characteristics of Building Materials

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2009; Errata First Printing)
International Building Code

1.2 SUBMITTALS

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.

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[; G][; G, [____]]

SD-03 Product Data

Manufacturer's Catalog Data[; G][; G, [____]]

SD-04 Samples

Fireproofing Plaster Sample[; G][; G, [____]]

SD-07 Certificates

Certificates of Conformance[; G][; G, [____]]

SD-08 Manufacturer's Instructions

Special Provisions[; G][; G, [____]]

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 have been exposed to water before use.

1.4 QUALITY CONTROL

1.4.1 Catalog Data

Submit manufacturer's catalog data for fireproof plaster showing applicable flame spread classification, fuel contribution, and smoke developed.

1.4.2 Plaster Sample

Submit no less than 0.2 kilogram 1/2 pound of Fireproofing Plaster Sample for review and approval.

1.4.3 Drawing Requirements

Submit [installation drawings](#) indicating the fireproof plaster, framing and furring as indicated and specified. Ensure components of the installation drawings meet the requirements of indicated and specified fireproofing.

1.4.4 Four Hour Fire Rated Construction

Prior to the commencement of work, submit [certificates of conformance](#) for fireproof plaster showing conformance with the [ICC IBC](#), "International Building Code," "Requirements for Four-Hour Construction." 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.

PART 2 PRODUCTS

2.1 MATERIALS

2.1.1 Fireproof Plaster

Provide gypsum-vermiculite fireproof plaster mix, consisting of one part gypsum to two parts vermiculite, conforming to [ICC IBC](#), "International Building Code," "Requirements for 4-Hour Construction."

Ensure cohesion of the dry set material is 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, and the minimum compressive strength requirement is not less than [485 kilopascal](#) [70 pounds per square inch](#).

Provide set and dried material, which when tested in accordance with [ASTM E 84](#), yields the following characteristics:

- a. Flame spread 10
- b. Fuel contributed 5
- c. 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

Provide [pneumatic] [or] [and] [trowelled] application of fireproofing plaster 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.

Provide framing and furring 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 --