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UNIFIED FACILITIES GUIDE SPECIFICATIONS

References are in agreement with UMRL dated April 2009

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DIVISION 09 - FINISHES

SECTION 09 23 82

FIREPROOF GYPSUM PLASTERING

01/08

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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  | (2009) Standard Test Method for Surface Burning Characteristics of Building Materials |

#### INTERNATIONAL CODE COUNCIL (ICC)

- |         |   |
|---------|---|
| ICC IBC | (2006; Errata 2006; Errata 2007; Supplement 2007; Errata 2007)<br>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 --