



Preparing Activity: NASA

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

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 (2000a) Standard Test Methods for Fire Tests of Building Construction and Materials

ASTM E 84 (2007) Standard Test Method for Surface Burning Characteristics of Building Materials

INTERNATIONAL CODE COUNCIL (ICC)

ICC IBC (2006) 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 shall be submitted for Fireproof Plaster in accordance with the paragraph entitled, "Application," of this section.

#### SD-03 Product Data

Manufacturer's catalog data shall be submitted for Fireproof Plaster showing 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

Certificates shall be submitted for Fireproof Plaster showing conformance with the ICC IBC, "Uniform Building Code," Volume I, "Requirements for Four-Hour Construction."

#### SD-08 Manufacturer's Instructions

Manufacturer's instructions shall be submitted for Fireproof Plaster including special provisions required to install equipment components and system packages. Special notices shall detail impedances, hazards and safety precautions.

### 1.3 DELIVERY, HANDLING, AND STORAGE

Materials shall be delivered in original unopened packages bearing the name of the product, manufacturer's name, and the Underwriters Laboratories, Inc. label.

Materials shall be stored off the ground, under cover, and away from damp surfaces and shall be kept dry until ready to use. Materials that have been exposed to water before use shall be discarded.

## PART 2 PRODUCTS

### 2.1 MATERIALS

#### 2.1.1 Fireproof Plaster

Fireproof plaster shall be gypsum-vermiculite mix. Consisting of one part gypsum to two parts vermiculite. Plaster shall comply with ICC IBC, "International Building Code," "Requirements for 4-Hour Construction."

Cohesion of the dry set material shall 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.

Compressive strength shall be not less than 485 kilopascal 70 pounds per square inch.

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

Flame spread	10
Fuel contributed	5
Smoke developed	0

#### 2.1.2 Water

Water shall be potable.

## PART 3 EXECUTION

### 3.1 INSTALLATION

#### 3.1.1 General Requirements

Fireproofing plaster shall be applied as specified to those areas indicated. Details shall be as indicated.

#### 3.1.2 Application

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

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

#### 3.2 ACCEPTANCE PROVISIONS

After completion of fireproofing work, application equipment shall be removed. 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 shall be cleaned of fireproofing materials.

Damaged or unacceptable portions of the fireproofing plaster shall be removed and replaced with new work at no additional cost to the Government.

-- End of Section --