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### 078100 - Cementitious Fireproofing

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## **SECTION 07 8100 – CEMENTITIOUS FIREPROOFING**

### 1.1 SUMMARY

- A. Section includes sprayed fire-resistive materials (SFRM).
  - 1. Light density cementitious fireproofing at concealed interior locations.
  - 2. High density cementitious fireproofing at exposed to view interior and concealed plenum locations.

### 1.2 SUBMITTALS

- A. LEED Submittals:
  - 1. Product Data for Credit EQ 4.2: For paints and coatings, documentation including printed statement of VOC content.

### 1.3 MATERIALS, GENERAL

- A. Fire-Resistance Design: Indicated on Drawings, tested according to ASTM E 119 by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
- B. VOC Content: Products shall comply with VOC content limits of authorities having jurisdiction and the following VOC limits when calculated according to 40 CFR 59, Subpart D (EPA Method 24):
  - 1. Flat Paints and Coatings: 50 g/L.
  - 2. Nonflat Paints and Coatings: 150 g/L.
  - 3. Primers, Sealers, and Undercoaters: 200 g/L.
  - 4. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
- C. Asbestos: Provide products containing no detectable asbestos.

### 1.4 ACCEPTABLE PRODUCTS AND MANUFACTURERS

- A. Provide one of the following products:
  - 1. Light Density Cementitious Fireproofing at all interior concealed locations (except plenums):
    - a. Monokote MK-6; Grace Construction Products Division, W.R. Grace & Co.
    - b. CAFCO Blaze-Shield II; Isolatek International.
    - c. CAFCO 300; Isolatek International.
  - 2. High Density Cementitious Fireproofing at all exposed interior and plenum locations:

- a. Monokote Z146; Grace Construction Products Division, W.R. Grace & Co.

#### 1.5 LIGHT DENSITY CEMENTITIOUS FIREPROOFING

- A. Light density cementitious fireproofing for interior concealed conditions (except plenums). Sprayed material shall be factory blended cementitious fireproofing which when mixed at the jobsite with water and applied, will provide compliance with performance test criteria.
  1. Density: Not less than 40 lb/cu. ft. and as specified in the approved fire-resistance design, according to ASTM E 605.
  2. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
    - a. Flame-Spread Index: 0.
    - b. Smoke-Developed Index: 0.

#### 1.6 HIGH DENSITY PORTLAND CEMENT BASED CEMENTITIOUS FIREPROOFING

- A. High density Portland cement based cementitious fireproofing. Sprayed material shall be factory blended cementitious fireproofing which when mixed at the jobsite with water and applied, will provide compliance with performance test criteria.
  1. Density: Not less than 15 lb/cu. ft. (240 kg/cu. m) and 22 lb/cu. ft. (350 kg/cu. m) and as specified in the approved fire-resistance design, according to ASTM E 605.
  2. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
    - a. Flame-Spread Index: 0.
    - b. Smoke-Developed Index: 5.

#### 1.7 AUXILIARY MATERIALS

- A. Sealer: Transparent-drying, water-dispersible, tinted protective coating recommended in writing by fireproofing manufacturer for each fire-resistance design.
  1. Product: Subject to compliance with requirements, provide "Cafco Bond-Seal" by Isolatek International.
- B. Topcoat: Suitable for application over applied fireproofing; of type recommended in writing by fireproofing manufacturer for each fire-resistance design.

END OF SECTION 07 8100