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## SECTION 07820 MINERAL FIBERBOARD FIREPROOFING

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### PART 1 - GENERAL

#### 1.01 WORK INCLUDED

- A. Preparing surfaces to receive fireproofing.
- B. Protection of adjacent surfaces from overspraying.
- C. Mineral fiberboard, asbestos free, fireproofing of interior exposed structural steel wide flange columns and beams, to provide rated fireproofing.

#### 1.02 RELATED WORK

- A. Section [\_\_\_\_ - \_\_\_\_\_]: Building structural substrate surfaces.
- B. Section 05120 - Structural Steel.
- C. Section 05210 - Steel Joists.

#### 1.03 REFERENCES

- A. ASTM E 84 - Test Method for Surface Burning Characteristics of Building Materials.
- B. ASTM E 119 - Fire Tests of Building Construction and Materials.
- C. U.L., Inc. - Fire Resistance Directory.

#### 1.04 PERFORMANCE REQUIREMENTS

- A. Mineral fiberboard fireproofing to provide a two hour fire rating.

#### 1.05 SUBMITTALS

- A. Submit product data under provisions of Section [01300.] [\_\_\_\_.].
  - 1. Indicate product characteristics, performance, and limitation criteria.
- B. Submit manufacturer's installation instructions under provisions of Section [01300.] [\_\_\_\_.].
- C. Submit manufacturer's certificate under provisions of Section [01400] [\_\_\_\_] that products meet or exceed specified requirements.
- D. Submit test reports under provisions of Section [01400] [\_\_\_\_].
- E. Submit certified test reports indicating the following:
  - 2. Fire test reports of fireproofing application to substrate materials similar to project conditions.
  - 3. U.L. Design Listings from U.L., Inc.

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## WARRANTY

LIMITED WARRANTY/LIMITATION OF LIABILITY: Seller warrants that its products will meet the specifications which it sets for them. Seller's responsibility under this warranty will be limited solely to replacing the products which prove defective, provided that Buyer gives Seller prompt notice in writing of said defect and satisfactory proof thereof. Products may be returned to Seller only after written authorization has been obtained from Seller. The foregoing warranty is in lieu of all other warranties, whether oral, written, express, implied or statutory. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WILL NOT APPLY. Technical or other advice is furnished by us solely as an accommodation and shall not increase the scope of our responsibilities or liability. Seller's warranty obligations and Buyer's remedies hereunder are solely and exclusively as stated herein: In no event will Seller be liable either for the labor and other associated costs incurred in replacing the product, including, but not limited to, its removal and application, or for other incidental or consequential damages.



**Albi**

Albi Manufacturing  
Division of StanChem Inc.  
401 Berlin St., East Berlin, CT 06023  
860/828-0571 Fax: 860/828-3297  
<http://www.albi.com>

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4. Submit applicator's current certification, by product manufacturer, as a factory trained and manufacturer approved installer of this product.

#### **1.06 QUALITY ASSURANCE**

- A. Manufacturer: Company specializing in manufacturing the products specified in this Section with minimum five years documented experience.
- B. Applicator: Company specializing in applying the work of this Section with minimum 3 years documented experience and approved by manufacturer.

#### **1.07 REGULATORY REQUIREMENTS**

- A. Conform to applicable code for fire resistance ratings.
- B. Submit certification of acceptability of fireproofing materials to authority having jurisdiction and to Architect.

#### **1.08 MOCKUP**

- A. Provide mockup of applied mineral fiberboard fireproofing under provisions of Section [01400.] [\_\_\_\_.].
- B. Provide testing and analysis of mockup to manufacturer's published data.
- C. Apply sample section of 100 sq ft in size to representative substrate on site.
- D. Comply with project requirements as to thickness, density, fire rating, and finish texture.
- E. Examine installation to determine variances.
- F. If accepted, mockup will demonstrate minimum standard for the Work. Mockup may remain as part of the Work.

#### **1.09 SEQUENCING AND SCHEDULING**

- A. Sequence work under provisions of Section [\_\_\_\_.].

#### **1.10 WARRANTY**

- A. Provide one year manufacturer's warranty under provisions of Section [01700.] [\_\_\_\_.].
- B. Provide one year applicator's warranty under provisions of Section [01700.] [\_\_\_\_.].
- C. Warranty: Fireproofing to remain free from cracking, checking, dusting, flaking, spalling, separation, and blistering. Reinstall or repair such defects or failures.

### **PART 2 - PRODUCTS**

#### **2.01 ACCEPTABLE MANUFACTURERS**

- A. Albi Manufacturing, East Berlin, CT (860) 828-0571; "ALBI DRICLAD."

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## 2.02 MATERIALS

- A. Mineral Fiberboard Fireproofing: Manufactured board of asbestos free, fire resistive materials.
  - 1. Fuel Contributed: ASTM E84, Class A.
  - 2. Flame Spread: ASTM E 84, Class A.
  - 3. Asbestos Content: 0%.
- B. Fasteners: Provide screws and other fasteners types, as may be recommended by the board manufacturer.

## PART 3 - EXECUTION

### 3.01 INSPECTION

- A. Verify that surfaces are ready to receive work.
- B. Verify that clips, hangers, supports, sleeves, and other items required to penetrate fireproofing are in place.
- C. Beginning of installation means applicator accepts existing substrate.

### 3.02 PROTECTION

- A. Protect floor areas from this Work by completely covering with tarps or 4 mil polyethylene sheets.
- B. Protect adjacent surfaces and equipment from damage by dusting.
- C. Close off and seal ductwork in areas where fireproofing is being applied.

### 3.04 APPLICATION

- A. Apply fireproofing in sufficient thickness to achieve rating, and in accordance with manufacturer's written application instructions. Use full number of fasteners called for.

### 3.05 FIELD QUALITY CONTROL

- A. Field inspection and testing will be performed using manufacturer's guidelines under provisions of Section [01400.] [\_\_\_\_\_.]
- B. Inspections will be performed to verify compliance with requirements.
- C. Patch fireproofing, which has been cut away to facilitate work of other trades, so as to maintain complete coverage of full thickness on appropriate substrate.
- D. Correct unacceptable Work and provide further inspection to verify compliance with requirements, at no cost.

### 3.06 CLEANING

- A. Clean work under provisions of Section [01700.] [\_\_\_\_\_.]
- B. Remove excess material and debris.
- C. Remove fireproofing from materials and surfaces not specifically required to be fireproofed.

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**PART 4 - SCHEDULE**

**4.01 SCHEDULE OF FIREPROOFING**

- A. \_\_\_\_\_  
1. Thickness:  
2. U.L. Design Number:
- B. \_\_\_\_\_  
1. Thickness:  
2. U.L. Design Number:
- C. \_\_\_\_\_  
1. Thickness:  
2. U.L. Design Number:

END OF SECTION

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