

## SECTION 07841

### PARTITION-HEAD FIRESTOPPING

#### PART 1 GENERAL

##### 1.1 SECTION INCLUDES

- A. Metal framing and gypsum wallboard firestopping assemblies for heads of partitions at construction that is subject to deflection.

##### 1.2 RELATED SECTIONS

- A. Section 05400 - Cold Formed Metal Framing.
- B. Section 09100 - Metal Support Assemblies.
- C. Section 09260 - Gypsum Board Assemblies.

##### 1.3 REFERENCES

- A. ASTM E 814 - Standard Test Method for Fire Tests of Through-Penetration Fire Stops.
- B. UL (FRD) - Fire Resistance Directory; Underwriters Laboratories Inc.
- C. WH (CERT) - Certification Listings; Warnock Hersey.

##### 1.4 PERFORMANCE REQUIREMENTS

- A. Fire Resistance Classification: Provide assemblies that have been tested and certified by an independent testing laboratory for fire ratings indicated on the drawings.
  - 1. Provide assemblies listed in UL (FRD) - Fire Resistance Directory.
  - 2. Provide assemblies listed in WH (CERT) - Warnock Hersey Certification Listings.

##### 1.5 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's standard product data, including product descriptions, specifications, installation instructions and procedures, and storage requirements.

- C. Shop Drawings: Details for each installation situation, including fastenings, requirements for anchoring, and supporting test data for fire ratings.

#### 1.6 MOCK-UP

- A. Prepare firestopping mock-ups at locations designated by the Architect, demonstrating required materials and quality of installation.
  - 1. Approved mock-ups will serve as standards for the remainder of the project.
  - 2. Approved mock-ups may be left in place as part of the completed work of this section.

#### 1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to project site in manufacturer's unopened packaging bearing manufacturer's name, product identification, and approval marks by independent testing laboratories, as applicable.
- B. Coordinate deliveries with project activities to minimize storage time on project site.
- C. Store products in accordance with manufacturer's instructions.

#### 1.8 ENVIRONMENTAL REQUIREMENTS

- A. Do not install firestopping compound until building is enclosed and heating, ventilating, and air conditioning systems are in operation.
- B. Maintain temperature in areas of installation at not less than 50 degrees F (10 degrees C).

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- A. Provide Fire Trak Ceiling Runners manufactured by Fire Trak Corporation, P.O. Box 428, Kimball, MN 55353. ASD. Telephone: 800-394-9875; Fax: 320-398-7660.
- B. Requests for substitutions will be considered in accordance with provisions of Section 01600.

C. Substitutions: Not permitted.

## 2.2 PRODUCTS

- A. Ceiling Runners: Fire Trak Ceiling Runners formed from galvanized steel sheet, not less than 25 gage (0.53 mm) thickness, and as follows:
1. Style: Shadowline.
  2. Style: Cavity Shadowline.
  3. Style: Reveal.
  4. Style: Cavity Reveal.
  5. Styles: As indicated on drawings for different locations.
  6. Size: \_\_\_\_\_.
  7. Sizes: To fit stud sizes indicated on the drawings.
  8. Gage: \_\_\_\_\_.
  9. Gages: As indicated on the drawings.
  10. Gages: As required to meet hourly ratings indicated.
- B. Gypsum Wallboard: Type X, and as otherwise specified in Section 09260.
- C. Insulation: Mineral wool, not less than 3.5 pcf (56 kg/sq m) density.
- D. Firestopping Compound: Gypsum based compound, free of asbestos and capable of maintaining an effective barrier against flame, smoke, and gas.
1. Provide required Flame (F) and Temperature (T) ratings, as tested per ASTM E 814 by an independent testing agency acceptable to governing authorities.
  2. Provide one of the following:
    - a. Sta-Smooth FS-90 Fire Shield, by National Gypsum Company.
    - b. Fire Halt Compound, by GypRoc Company.
    - c. Fire Stop Compound, by United States Gypsum Company.
- E. Accessories:
1. Fasteners: Power driven self-tapping screws, as required by tested and rated assemblies.
  2. Stud clips: Fire Trak Slip Clips.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Inspect and verify that surface conditions of substrates have no defects that would interfere with installation of the firestopping system.
- B. Do not proceed with firestopping installation until unacceptable conditions have been corrected.

### 3.2 PREPARATION

- A. Clean surfaces and substrates that will be in contact with firestopping compound. Remove dirt, oil, rust, loose material, and other foreign materials that may affect proper bond of the firestopping compound.

### 3.3 INSTALLATION

- A. Install firestopping assemblies in accordance with manufacturer's instructions to provide required F and T ratings. Ensure that anchoring devices, back-up material, clip supports, and other materials are consistent with tested and approved assemblies.
- B. Attach ceiling runners to floor or ceiling decking, roof decking, or other structure with anchors spaced no more than 24 inches (61 mm) on center.
- C. Apply firestopping compound in accordance with instructions of compound manufacturer.

### 3.4 FIELD QUALITY CONTROL

- A. Examine completed firestopping assemblies to ensure proper installation and full compliance with contract documents and requirements of governing authorities.
- B. Keep area of firestopping work accessible until inspected and approved by applicable authorities.

### 3.5 ADJUSTING AND CLEANING

- A. Adjusting: Patch and repair damaged or otherwise unacceptable firestopping and provide additional inspections as required to assure compliance with requirements.

- B. Cleaning: Remove debris and excess materials from project site, and leave completed work in neat and tidy condition.

END OF SECTION