

**SECTION - 07842**  
**PERIMETER FIRE CONTAINMENT SYSTEMS**

**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, apply to this Section.

**1.2 SUMMARY**

- A. This Section includes the following:
  - 1. Forming material.
  - 2. Perimeter joint fill compound
  - 3. Anchors for installation
- B. Related Sections:
  - 1. Section 07210 "Building Insulation" for exterior wall insulation.
  - 2. Section 07841 "Through Penetration Firestopping" for through penetration firestopping.

**1.3 PERFORMANCE REQUIREMENTS**

- A. For installation between fire rated floor constructions and non-rated exterior wall construction, provide perimeter fire containment systems that are produced and installed to prevent the vertical spread of fire according to requirements indicated, and resist passage of smoke and other gases.

**1.4 SUBMITTALS**

- A. Product Data for each type of product specified.
- B. Product test reports from and based on tests performed by a qualified independent testing agency evidencing compliance of products with specified requirements including those for fire-test-response characteristics.
- C. Research or evaluation reports of the model code organization acceptable to authorities having jurisdiction that evidence compliance of fire containment systems with building code in effect for Project.

**1.5 QUALITY ASSURANCE**

- A. Single-Source Responsibility for Products: Obtain products from a single source with resources to provide products complying with requirements indicated without delaying the Work.
- B. Fire-Test-Response Characteristics: Provide materials with the fire-test-response characteristics indicated on Drawings or specified elsewhere in this Section as determined by testing identical products per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify materials with appropriate markings of applicable testing and inspecting agency.
  - 1. Surface-Burning Characteristics: ASTM E 84.
  - 2. Fire-Resistance Ratings: ASTM E 119.

**1.6 DELIVERY, STORAGE, AND HANDLING**

- A. Protect materials from physical damage and from deterioration by moisture, soiling, and other sources. Store inside and in a dry location. Comply with manufacturer's written instructions for handling, storing, and protecting during installation.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Forming material.
    - a. Fibrex Inc.
    - b. Partek Insulations, Inc.
    - c. Thermafiber LLC.
  - 2. Fill materials.
    - a. Thermafiber LLC.
    - b. 3M Specified Construction Products

### 2.2 FORMING MATERIAL

- A. Slag-Wool-Fiber Board: Semirigid boards designed for use as fire stop at openings between edge of slab and exterior wall panels, produced by combining slag-wool fibers with thermosetting resin binders to comply with ASTM C 612; nominal density of 8 lb/cu. ft.; passing ASTM E 136 for combustion characteristics.

### 2.3 FILL MATERIAL

- A. Firesafing compound material approved by manufacturer of fire containment materials for sealing between exterior wall and edge of concrete floor slab against penetration of fire and smoke.
- B. Fire Barrier Spray: flexible, sprayable, water-based coating that forms a flexible seal capable of controlling the transmission of fire, smoke, other gasses and water during exposure to fire.

### 2.4 ACCESSORIES

- A. Safing Clips: Galvanized steel safing clips approved by manufacturer for holding forming material in place.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates and conditions, with Installer present, for compliance with requirements of Sections in which substrates and related work are specified and to determine if other conditions affecting performance of fire containment system are satisfactory. Do not proceed with installation until unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION, GENERAL

- A. Comply with material manufacturer's written instructions applicable to products and application indicated.
- B. Install materials that are undamaged, dry, unsoiled, and has not been exposed at any time to ice and snow.
- C. Extend forming material in thickness indicated. Cut and fit tightly around obstructions and fill voids with forming material.
- D. Install forming material to fill gap between edge of concrete floor slab and back of exterior spandrel panels on clips spaced as needed to support forming material, but not further apart than 24 inches o.c. Cut forming material wider than gap to be filled to ensure compression fit.

- E. Seal joint with fill material approved by manufacturer for this purpose and in accordance with manufacturer's recommendations. Leave no voids in completed installation.

### 3.3 PROTECTION

- A. General: Protect installed fire containment systems from damage due to harmful weather exposures, physical abuse, and other causes. Provide temporary coverings or enclosures where fire containment systems are subject to abuse and cannot be concealed and protected by permanent construction immediately after installation.

**END OF SECTION 07842**