PART 1 GENERAL

1.1 RELATED DOCUMENTS

A. The provisions of the general Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section 1.

1.2 SECTION INCLUDES:

A. Fireproof firestopping and fire safe materials and accessories.

1.3 REFERENCES

C. ASTM E814 – Standard Test Method of Fire Tests of Through Penetration Firestops
D. FM (Factory Mutual) - Fire Hazard Classifications.
E. UL - Fire Hazard Classifications
F. UL 263 - Fire Tests of Building Construction and Materials
G. UL 723 - Test for Surface Burning Characteristics of Building Materials.
H. UL 1479 - Fire Tests of Through-Penetration Firestops
I. WH (Warnock Hersey) - Certification Listings.
J. Florida Building Code.

1.4 DEFINITION

A. Firestopping: A code approved material or assembly placed in spaces between building materials to arrest the spread of smoke, heat, gases, or fire through wall or floor openings.

1.5 SYSTEM DESCRIPTION

A. Firestopping Materials: ASTM E119, ASTM E814, UL 263 or UL 1479 to achieve fire rating.
B. Surface Burning: ASTM E84 or UL 723 with a flame spread/smoke developed rating per code.
C. Firestop all interruptions to fire rated assemblies, materials and components.

1.6 SUBMITTALS

A. Submit under provisions of Section 01300.
B. Product Data: Provide data on product characteristics, performance and limitation criteria.
C. Manufacturer's Installation Instructions: Indicate preparation and installation instructions.
D. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.

1.7 QUALIFICATIONS

A. Manufacturer: Company specializing in manufacturing the products specified in this section with minimum five years documented experience.
B. Applicator: Company specializing in performing the work of this section with minimum three years documented experience and approved by manufacturer.
1.8 REGULATORY REQUIREMENTS
   A. Conform to applicable code for fire resistance ratings and surface burning characteristics.
   B. Provide certificate of compliance from UL or WH indicating approval of materials used.

1.9 MOCKUP
   A. Provide mockups of applied firestopping assemblies under provisions of Section 01400.
   B. Apply 3 sq. ft. to a representative substrate surface.
   C. Apply firestop material to a representative penetrated masonry, concrete, stud wall and substrate.
   D. If accepted, mockup will demonstrate minimum standard of the Work.
   E. Mockup may remain as part of the Work.

1.10 ENVIRONMENTAL REQUIREMENTS
   A. Do not apply materials when temperature of substrate material and ambient air is below 60°F.
   B. Maintain this minimum temperature before, during and three days after installation of materials.
   C. Provide ventilation in areas to receive solvent cured materials.

PART 2 PRODUCTS

2.1 SILICONE ELASTOMERIC COMPOUND
   A. Single or multiple component silicone elastomeric compound and compatible silicone sealant.

2.2 FOAM COMPOUND
   A. Single or multiple component foam compound.

2.3 FORMULATED COMPOUND OF INCOMBUSTIBLE FIBERS
   A. Formulated compound mixed with incombustible non-asbestos fibers.

2.4 FIBER STUFFING
   A. Mineral fiber stuffing insulation.

2.5 MECHANICAL DEVICE WITH FILLERS
   A. Mechanical device with incombustible fillers covered with sheet stainless steel jacket, joined with collars and penetration sealed with flanged stops.

2.6 INTUMESCENT PUTTY
   A. Intumescent putty compound which expands on exposure to surface heat gain.

2.7 CERAMIC-BASED FIRESTOP SEALANT
   A. High temperature smoke and firestop sealant for sealing penetrations in walls and floors.
2.8 FIRE PREVENTION PILLOW SYSTEM

A. Intumescent fiberglass bags for sealing cable tray openings.

2.9 ACCESSORIES

A. Primer: Type recommended by firestopping manufacturer for specific substrate surfaces.
B. Installation Accessories: Clips, collars, fasteners, temporary stops or dams, and other devices required to position and retain materials in place.

PART 3 PREPARATION

3.1 EXAMINATION

A. Verify site conditions.
B. Verify openings are ready to receive the work of this section.

3.2 PREPARATION

A. Clean substrate surfaces of dirt, dust, grease, oil, loose material or other matter that may affect bond of firestopping material.
B. Remove incompatible materials that may affect bond.
C. Install materials to arrest liquid material leakage.

3.3 APPLICATION

A. Unless otherwise noted, each trade is responsible for installation of firestopping at each location where your work penetrates a firewall or falls in a location where firestopping is required.
B. Install material at walls or partition openings that contain penetrating sleeves, piping, ductwork, conduit and other items requiring firestopping.
C. Apply primer and materials in accordance with manufacturer's instructions.
D. Apply firestopping material in sufficient thickness to achieve rating.
E. Place foamed material in layers to ensure homogenous density, filling cavities and spaces. Place sealant to completely seal junctions with adjacent dissimilar materials.
F. Place intumescent coating in sufficient coats to achieve rating required.

3.4 CLEANING

A. Keep work area clean. Clean area upon completion of the work.
B. Clean adjacent surfaces of firestopping materials.

3.5 PROTECTION OF FINISHED WORK

A. Protect finished work.
B. Protect adjacent surfaces from damage by material installation.

END OF SECTION