

**SECTION 07 84 00**  
**FIRESTOPPING PENETRATIONS, JOINTS AND PERIMETER FIRE BARRIERS**

**PART 1 GENERAL**

1.00 RELATED DOCUMENTS

- A. The BIDDING REQUIREMENTS, CONTRACTING REQUIREMENTS, and applicable parts of DIVISION 1 - GENERAL REQUIREMENTS, as listed in the Table of Contents, shall be included in and made a part of this Section.

1.01 SUMMARY

- A. Provide firestop systems consisting of a material, or combination of materials installed to retain the integrity of fire-resistance rated construction by maintaining an effective barrier against the spread of flame, smoke, and/or hot gases through penetrations, blank openings, construction joints, or at the gap that is created at the building perimeter of the horizontal fire resistance rated assembly and exterior wall and in or adjacent to either fire-resistance or non-fire-resistance rated barriers in accordance with the requirements of the Building Code for this project.
- B. Firestop systems shall be used in locations including, but not limited to, the following:
1. Penetrations through fire-resistance-rated floor and roof assemblies requiring protected openings including both empty openings and openings that contain penetrations.
  2. Penetrations through fire-resistance-rated wall assemblies including both empty openings and openings that contain penetrations.
  3. Membrane penetrations in fire-resistance-rated wall assemblies where items penetrate one side of the barrier.
  4. Joints in fire-resistance-rated assemblies to allow independent movement.
  5. Perimeter of the horizontal fire-resistance rated assembly and exterior wall between a rated floor/roof and an exterior wall assembly.
  6. Joints, through penetrations and membrane penetrations in Smoke Barriers, Smoke Partitions and those assemblies required to limit, restrict or regard the passage of smoke.

1.02 RELATED WORK

- A. Examine Contract Documents for requirements that affect Work of this Section. Other Specification Sections that relate directly to Work of this Section include, but are not limited to:
1. Division 03 00 00 - CONCRETE; Concrete work
  2. Division 04 00 00 - MASONRY
  3. Division 07 80 00 - THERMAL AND MOISTURE PROTECTION
  4. Division 08 44 00 – OPENINGS; CURTAINWALL AND GLAZED ASSEMBLIES CURTAIN WALL SYSTEMS
  5. Division 09 20 00 - PLASTER AND GYPSUM BOARD
  6. MasterFormat 1995 - Division 15 - MECHANICAL
  7. MasterFormat 1995 - Division 16 - ELECTRICAL, LIGHTING, POWER, ALARMS and COMMUNICATIONS

8. MasterFormat 2014 – Division 21 00 00 FIRE SUPPRESSION
9. MasterFormat 2014 – Division 22 00 00- PLUMBING
10. MasterFormat 2014 – Division 23 00 00 – HEATING, VENTILATION AND AIR CONDITIONING(HVAC)
11. MasterFormat 2014 – Division 25 00 00 – INTEGRATED AUTOMATION
12. MasterFormat 2014 – Division 26 00 00 – ELECTRICAL
13. MasterFormat 2014 – Division 27 00 00– COMMUNICATIONS
14. MasterFormat 2014 – Division 28 00 00 – ELECTRONIC SAFETY AND SECURITY

1.03 REFERENCES

- A. Comply with applicable requirements of the following standards. Where these standards conflict with other specified requirements, the most restrictive requirement shall govern.
  1. American Society for Testing and Materials (ASTM).
    - a) E 84 Test Method for Surface Burning Characteristics of Building Materials
    - b) E 119 Test Method for Fire Tests of Building Construction and Materials
    - c) E 136 Test Method for Behavior of Materials in a Vertical Tube Furnace at 750F
    - d) E 814 Fire Tests of Through-Penetration Fire Stops
    - e) E 1399 Cyclic Movement and Measuring Minimum and Maximum Joint Widths
    - f) E 1966 Test Method for Resistance of Building Joint
    - g) E 2174 Standard Practice for On-Site Inspection of Installed Fire Stops
    - h) E 2393 Standard Practice for On-Site Inspection of Installed Fire Stop Joint Systems
    - i) E 2307 Standard Test Method for Determining the Fire Endurance of Perimeter Fire Barrier Systems Using the Intermediate-Scale, Multi Story Test Apparatus (ISMA)
    - j) E 2837 Standard Test Method for Determining the Fire Resistance of Continuity Head-of-Wall Joint Systems Installed Between Rated Wall Assemblies and Nonrated Horizontal Assemblies
  2. Factory Mutual (FM) Approvals:
    - a) FM Approval Standard of Firestop Contractors – Class 4991
    - b) FM Firestop Exam
    - c) FM Approvals Standard for Firestops – Class 4990
  3. Firestop Contractors International Association (FCIA):
    - a) MOP – FCIA Firestop Manual of Practice
  4. International Accreditation Services
    - a) iAS Accreditation Criteria for Special Inspection Agencies AC-291
  5. International Firestop Council (IFC):
    - a) Ref. 1 Recommended IFC Guidelines for Evaluating Firestop Engineering Judgments
    - b) Ref. 2 Inspectors Field Pocket Guide
    - c) Ref. 3 IFC Recommended Guidelines for Performing Destructive Testing for Installed Penetration Firestop Systems, Fire Resistive Joint Systems, or Perimeter Fire Barrier Systems
  6. National Fire Protection Association (NFPA):

- a) NFPA 70 - National Electric Code
- b) NFPA 101 - Life Safety Code
- c) NFPA 221 - Fire Walls and Fire Barriers (preliminary to be released)
- d) NFPA 251 - Fire Tests of Building Construction and Materials

7. Underwriters Laboratories, Inc. (UL):

- a) UL Qualified Firestop Contractor Program
- b) UL Firestop Exam
- c) UL 263 Fire Tests of Building Construction and Materials
- d) UL 723 Surface Burning Characteristics of Building Materials
- e) UL 1479 Fire-Tests of Through-Penetration Fire Stops
- f) UL 2079 Tests for Fire Resistance of Building Joint Systems

1.04 SYSTEM PERFORMANCE REQUIREMENTS

A. Penetrations: Provide and install firestopping products that once installed to the tested and listed system or engineering judgment become firestop systems that are produced to resist the spread of fire, and the passage of smoke through breaches, gaps, openings, in fire-resistance-rated and smoke resistant assemblies according to requirements indicated, including but not limited to the following:

1. Firestop all breaches made in fire-resistance rated assemblies for penetrating items passing through fire-resistance-rated wall and floor assemblies and other locations as indicated on the drawings.
2. Provide and install complete penetration firestopping systems that have been tested and approved by a nationally recognized third-party testing agency.
3. F - Rated Through-Penetration Firestop Systems: Provide through-penetration firestop systems with F ratings indicated, as determined per ASTM E 814 or UL 1479, but not less than one hour or the fire-resistance rating of the construction being penetrated by the penetrating item.
4. T - Rated Through-Penetration Firestop Systems: Provide firestop systems with T ratings, in addition to F ratings, as determined per ASTM E 814 or UL 1479, where indicated.
5. L – Rated Through-Penetration Firestop Systems: Provide firestop systems with L ratings, in addition to F and T ratings, as determined per UL 1479, where indicated.
6. (Optional) W – Rated Through-Penetration Firestop Systems: Provide firestop systems with W Water Resistance ratings, in addition to F, T and L ratings, as determined per UL 1479, where indicated.

**[NOTE FOR SPECIFIER:** Tested and listed systems are key to whether the products will be suitable for use in specific applications. There are various ratings produced from tests based on ASTM E 814, UL 1479, ASTM E 1966, UL 2079, ASTM E 2837, and ASTM E2307.

**F-Fire Resistance,** is the time in minutes or hours, when flame pokes through the assembly to the non-fire-exposed side of test assembly.

**The T-Temperature rating,** is to test to see if the through penetration firestop penetrating item(s) or fire-resistance rated joint assembly increase in temperature 325F above ambient. The T Rating is to measure

how long it takes for the penetrating item or assembly to increase in temperature enough to catch combustibles on the non-exposed side of the assembly on fire.

The **H-Hose Stream** is mandatory for the F and T Ratings in ASTM and UL Standards. It is optional in the Canada standards.

**The L Rating**, is for air leakage through the assembly at ambient temperature and 400F. The air simulates smoke moving through the assembly, with the L providing a quantifiable value for contractors to meet some code requirements in smoke barriers. The International Building Code requires <5cfm/sf of opening area for each penetrant and no more than 100cfm / 100sf of wall area.

**The W-Rating** is for water resistance. The W rating tests conditioned material (about 30 days old) to see if water leaks through the assembly after 72 hours under a 3' water column over the firestop. It is an optional rating and is used to protect areas from water leaking through the assembly. Note that the test is performed when the material is fresh, not aged, nor exposed to cleaning chemicals, movement of the assembly or the penetrating item(s).

**The I-Insulation Rating**, is similar to the T Rating and measures temperature rise on the unexposed side of the assembly.

**The I-Integrity Rating**, is similar to the F-Fire rating in that the failure point is when flame pokes through the assembly.]

**[NOTE FOR SPECIFIER:** The various building codes require firestopping with fire-resistance-ratings equal to the assembly where the void, breach, opening or gap is made for a joint, or penetrating item to pass through the assembly. The **F-Rating**, then, is equal to the fire-resistance of the assembly. The **T-Rating**, however, is different. There are a few exceptions in the codes where T-Ratings are not required such as in fire-resistance-rated shafts and inside walls. **L-Ratings** are required to for smoke barriers in the International Building Code. They are not mentioned in the smoke partition section. FCIA's position is that anyplace smoke is mentioned as a resistance requirement, that the **L-Rating** is the best way to establish smoke resistance. **W-Ratings** are not referenced in the codes. Refer to Chapter 7 of the International Building Code and Chapter 8 of NFPA 5000/101 for specific situations].

- B. Perimeter Interior Fire Barrier Systems: Provide perimeter interior fire barrier systems with fire-resistance ratings indicated, as determined per ASTM E 2307, but not less than the fire-resistance rating of the floor construction.
- C. Fire-Resistive Joints: Provide fire resistive joint systems with fire-resistance ratings indicated, as determined by tests performed to ASTM E 1966 and ASTM E 1399, E 2837, or UL 2079, but not less than the fire-resistance rating of the assembly in which the breach, void or joint occurs. For where fire resistance rated walls do not meet and create a breach between a non-fire resistant horizontal assembly, provide fire resistive joint systems with fire-resistance ratings as determined by ASTM E 2837.
- E. For firestopping exposed to view, traffic, moisture, and physical damage, provide firestop systems for these conditions that meet conditions expected as communicated through construction documents.
- F. Where there is no specific third party tested and listed, classified firestop system available for a particular firestop configuration, the firestopping contractor shall obtain from the firestop manufacturer, an Engineering Judgment (EJ) or Equivalent Fire Resistance Rated Assembly (EFRRA) for submittal. All EJ's to state that the manufacturer believes the EJ would pass the fire tests referenced for the application, if tested.

## 1.05 SUBMITTALS

- A. Submit Manufacturers Product Data Sheets and Manufacturer Installation Instructions for each type of product selected. Certify that Firestop Material shall be asbestos free and complies with local regulations.
1. Certification by firestopping manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOC's) and are nontoxic to building occupants.
- B. Submit system design listings, including illustrations from a nationally recognized testing agency that is applicable to each firestop configuration
1. Systems shall be submitted and reference system numbers in the UL Fire Resistance Directory or Online Certification Directory, under product categories XHEZ, XHDG or XHBN. As an alternative, system numbers from other approved agencies shall be submitted. An example of selected numbering, but not the complete numbering system is:
    - a. Breaches in Concrete Assemblies with penetrating items listed below passing through:
      - i. Metal Penetrating Items. – C-AJ-1XXX.
      - ii. Plastic Penetrating Items – C-AJ-2XXX
      - iii. Cables – C-AJ-3XXX
      - iv. Cable Trays – C-AJ-4XXX
      - v. Insulated Penetrating Items – C-AJ-5XXX
      - vi. Multiple Penetrating – C-AJ-8XXX

NOTE: There may be some systems available in other alpha numeric categories.
    - b. Breaches in Gypsum Wallboard Assemblies with penetrating items listed below passing through:
      - i. Metal Penetrating Items – W-L-1XXX.
      - ii. Plastic Penetrating Items – W-L-2XXX
      - iii. Cables – W-L-3XXX
      - iv. Cable Trays – W-L4XXX
      - v. Insulated Penetrating Items – W-L-5XXX
      - vi. Multiple Penetrating – W-L-8XXX
      - vii. NOTE: There may be some systems available in other alpha numeric categories.
    - c. Breaches between Walls and floors, with voids, gaps, intersections of dissimilar materials:
      - i. Concrete to Concrete Wall to Floor – HW-S or HW-D-XXXX
      - ii. Framed Wall to Concrete Wall – WW-S or WW-D-XXXX

NOTE: There may be some systems available in other alpha numeric categories.
    - d. Breaches between curtain walls and horizontal Assemblies:
      - i. CW-S-XXXX or CW-D-XXXX
      - ii. NOTE: There may be some systems available in other alpha numeric categories.
  2. Where there is no specific third party tested and classified Firestop System available for particular firestop configuration from any manufacturer, the firestopping contractor shall obtain from the firestop manufacturer an Engineering Judgment (EJ) or Equivalent Fire Resistance Rated Assembly (EFRRA) for submittal. The EJ or EFRRA shall state that the assembly is expected to pass the appropriate fire test equivalent to a tested and listed firestop system.
- C. Submit contractor qualifications as noted in 1.06 “Quality Assurance”.

## 1.06 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide firestopping System Design Listing by a testing agency in accordance with the appropriate ASTM Standard(s) per article 1.04 or another agency performing testing and follow-up inspection services for firestop materials that is acceptable to the authority having jurisdiction.]

[SPECIFIER NOTE: A nationally recognized testing agency may be UL, LLC, FM Approvals, Intertek Testing Services, or another agency performing testing and follow-up inspection services for firestop materials that is acceptable to the authority having jurisdiction.]

- B. Contractor Qualifications: Acceptable installer firms shall be:
1. FM Approved in accordance with FM Standard 4991 – Approval of Firestop Contractors, or.
  2. UL Qualified Firestop Contractor, AND,
  3. Firestop Contractors International Association Contractor Member in good standing.
  4. Licensed by the State or local authority, where applicable.
  5. Shown to have successfully completed not less than 5 comparable scale projects.
- C. Special Inspection Agency Qualifications: Special Inspection agencies shall be:
- i. IAS AC 291 Accredited for Firestop Systems.
- D. Special Inspectors Credentials: Special inspectors shall pass at 80%, the following Firestop Industry Exams:
- i. FM Firestop Exam  
OR
  - ii. UL Firestop Exam  
AND
  - iii. IFC Firestop Exam
- E. Single Source Responsibility: Obtain firestop systems for each kind of penetration and construction condition indicated from a single primary firestop systems manufacturer, to the greatest extent possible.
1. Materials of different manufacture than allowed by the tested and listed system shall not be intermixed in the same firestop system, void, breach, gap, intersection or opening.
  2. Tested and listed, classified firestop systems are to be used. If another manufacturer has a tested and listed system, then that system shall be used prior to an Engineering Judgment (EJ) or Equivalent Fire Resistance Rated Assembly (EFRRA).
- F. Field Constructed Mockup: Prior to installing firestopping, erect mockups for each different firestop system indicated to verify selections made and to demonstrate qualities of materials and execution as well as acceptance criteria. Build mockups to comply with the following requirements, using materials indicated for final installations.
1. Locate mockups on site in locations indicated or, if not indicated, as directed by Architect. Include mockup for each type of system.
  2. Notify Architect in advance of the dates and times when mockups will be installed.
  3. Obtain Architect and AHJ's acceptance of mockups before start of Work.
  4. Retain and maintain mockups during construction in an undisturbed condition as a standard for judging completed unit of Work. Accepted mockups in an undisturbed condition at time of Substantial Completion may become part of completed unit of Work.

## 1.07 DELIVERY, STORAGE, AND HANDLING

- A. Deliver firestopping products to Project site in original, unopened containers or packages with intact and legible manufacturers' labels identifying product and manufacturer.
- B. Store and handle firestopping materials in accordance with manufacturer's instructions.

1.08 PROJECT CONDITIONS

- A. Environmental Conditions: Install firestopping in accordance with manufacturers written instructions.
- B. Ventilation: Ventilate per firestopping manufacturers' instructions or Safety Data Sheet (SDS)

1.09 SEQUENCING, SCHEDULING

- A. Project coordination is essential to inform and educate all the parties involved with the firestopping process of their role and how they can affect firestopping on the project. A pre-construction meeting shall be scheduled and required for all parties involved prior to the start of construction. Firestop Systems tested and listed systems from laboratory directories, engineering judgements/equivalent fire resistance rated assembly documentation shall be used to prepare breaches in fire-resistance rated and smoke resistant assemblies.

1.10 ENVIRONMENTAL REGULATIONS

- A. All materials shall be asbestos free and comply with local VOC Regulations.
- B. If required, hazardous disposal of firestop materials shall be strictly observed as noted on the individual MSDS.

**PART 2 PRODUCTS**

2.01 FIRESTOPPING, GENERAL

- A. Systems listed by approved testing agencies, as identified in part 1 above, may be used, providing they conform to the construction type, penetrant type, physical properties, annular space requirements and fire rating involved in each separate instance.
- B. Manufacturer of firestop products shall have been successfully producing and supplying these products for a period of not less than 3 years, and be able to show evidence of at least 10 projects where similar products have been installed and accepted.
- C. Firestop products produced by FCIA Manufacturer Members in good standing.
  - a. 3M Fire Protection Products
  - b. BALCO, Inc.
  - c. Carboline Company/AD Fire Protection Systems
  - d. Construction Specialties, Inc.
  - e. EMSEAL Joint Systems, Ltd.
  - f. Fireline 520, an Inpro Company
  - g. HILTI, Inc.
  - h. International Carbine Technology Co., Ltd.
  - i. NUCO, Inc.
  - j. Passive Fire Protection Partners
  - k. Rectorseal/CSW Industrials
  - l. ROCKWOOL
  - m. Specified Technologies, Inc.
  - n. Thermafiber, Inc. (An Owens Corning Company)

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine substrates and conditions, with Installer present, for compliance with manufacturers installation requirements for opening configurations, penetrating items, substrates, and other conditions affecting performance of firestopping. Notify the responsible party or parties of any unsatisfactory conditions. Do not proceed with installation until unsatisfactory conditions have been corrected.

### **3.02 PREPARATION**

- A. Cleaning & Preparation: Clean and prepare surfaces as recommended by firestop system Manufacturer's installation instructions.
- B. Verify that system components are clean, dry, and ready for installation.
- C. Verify that field dimensions are as shown on the Drawings, tested and listed, classified systems, Engineering Judgments, EFRRA's and as recommended by the manufacturer's installation instructions.

### **3.03 INSTALLING PENETRATION FIRESTOPS**

- A. General: Comply with the "System Performance Requirements" article in Part 1 and the through-penetration firestop manufacturer's installation instructions and drawings pertaining to products and applications, systems indicated.
  - 1. Coordinate with other trades to assure that all pipes, conduit, cable, and other items, which penetrate fire-resistance rated construction, have been permanently installed prior to installation of firestop assemblies.
  - 2. Schedule the work to assure that partitions and all other construction that conceals penetrations are not erected prior to the installation of firestop and smoke seals.
- B. Install packing/backing/forming materials and other accessories in accordance with manufacturers installation instructions, tested and listed, classified systems
- C. Install fill, void and cavity materials for through-penetration firestop systems by proven techniques as recommended by the manufacturer, tested and listed, classified system and tooled to produce the following results:
  - 1. Clean surfaces as recommended by manufacturers' written instructions.
  - 2. Completely fill voids and cavities formed by openings, forming materials, accessories, and penetrating items.
  - 3. Install materials so they contact and adhere to substrates formed by openings and penetrating items.
  - 4. Finish to produce smooth, uniform surfaces as recommended by manufacturer's installation instructions and tested and listed, classified system requirements.

### **3.04 INSTALLING FIRESTOP JOINT SYSTEMS**

- A. General: Comply with the "System Performance Requirements" article in Part 1 and with the firestop manufacturer's installation instructions and drawings pertaining to products and applications indicated.
  - 1. Install joint forming materials to provide support of firestop materials during application and at the position required to produce the cross-sectional shapes and depths of installed firestop material relative to joint widths that allow optimum sealant movement capability and develop fire-resistance rating required.



- B. Install tested and listed, classified systems and non-tested engineering judgments, EFRRA's that result in firestop materials:
  - 1. Directly contacting and fully wetting joint substrates.
  - 2. Completely filling recesses provided for each joint configuration,
  - 3. Providing uniform, cross-sectional shapes and depths relative to joint width that optimize movement capability and meet tested and listed system requirements.
  
- C. Tool or smooth non-sag firestop materials immediately after their application and prior to the time skinning or begins as stated in the manufacturers installation instructions. Form smooth, uniform beads of configuration indicated or required to:
  - 1. produce fire-resistance rating
  - 2. to eliminate air pockets
  - 3. to ensure contact and adhesion with sides of joint.

### 3.05 INSTALLING PERIMETER FIRE BARRIER SYSTEMS

- A. General: Comply with "System Performance Requirements" article in Part 1 and with the firestop manufacture's installation instructions and drawings pertaining to products and applications indicated.
  
- B. Install metal framing, curtain wall insulation, mechanical attachments, safing materials and other firestop system components as applicable within the system design.

### 3.06 FIELD QUALITY CONTROL

- A. Provide either of the following:
  - a. CERTIFICATE OF CONFORMANCE – Firestopping shall be installed by an FM 4991 Approved Firestop Contractor and/or UL Qualified Firestop Contractor. The installer shall issue to AHJ and Owner a Certificate of Conformance confirming that the work has been carried out in accordance with specifications.  
  
...AND/OR...
  
  - b. INSPECTION – Independent inspection agency employed and paid by owner, will examine firestopping in accordance with ASTM E – 2174, "Standard Practice for On-Site Inspection of Installed Fire Stops and ASTM E-2393, "Standard Practice for On-Site Inspection of Installed Fire Stop Joint Systems.

[NOTE FOR SPECIFIER: Chapter 17 of the 2012-2018 International Building Code requires ASTM E 2174-09 and ASTM E 2393-09 for buildings 75' and higher, and Occupancy Category III or IV buildings constructed in accordance with Section 1604. Firestopping is a very detailed, technical installation. There are installers who have been audited by third party agencies, not connected with the sale of products, who understand the laboratory tested and listed firestop systems requirements. Companies that do not specialize in firestopping may not have the same quality control processes as a FM 4991 Approved or UL Qualified Firestop Contractor. Increasing the inspection frequency for those not FM 4991 Approved or UL Qualified provides assurance that all trades are inspected and that the inspection is thorough.]

### 3.07 CLEANING

- A. Clean off excess fill materials and sealants adjacent to openings and joints as work progresses. Use methods and cleaning materials approved by manufacturers of firestopping products and or assemblies in which penetrations, openings, gaps and joints occur.
- B. Protect firestopping during and after curing period from contact with contaminating substances. If damage caused by others, owner and general contractor to instruct firestop contractor to make appropriate repairs and charge to appropriate trades.

### 3.08 DOCUMENTATION

- A. Documentation: Provide details of installations, with Listed Systems and/or Engineering Judgements and locations on Life Safety Drawings for restoring the fire resistance rating or smoke resistant properties where a breach in an assembly occurs for a fire rated joint, penetration and/or safin slot, perimeter interior fire containment system. Such documentation shall be delivered as a binder, electronic or software application/program to the building owner or manager at the end of construction. This information shall be part of the closeout documents. Documentation shall be composed in a concise and comprehensible manner by so that the Authority Having Jurisdiction (AHJ) can understand and verify installations.

**[NOTE TO SPECIFIER:** A closeout document is required for the AHJ to be able to verify what the installed firestop systems are for final approval. While this should be specified in Division 1, it is very specific here in 07-84-00. It would be better suited to have the work result documented by the contractor who installs the systems directed by 07-84-00. If this section is moved to Division 1, and used in its entirety for this work, it is also appropriate.

Firestop System selection and installation involves complex issues and concepts. Installers of firestop systems must be able to select the correct firestop system for that particular application, have exceptional knowledge of all aspects of firestopping and be able to communicate firestop systems well to the firestop/containment worker and back to project management. The closeout documentation is a required communication from the installer to provide the building owner and manager, through the proper channels, the documentation information needed to maintain firestopping in compliance with the International Fire Code Chapter 7, Maintenance, and NFPA 101, The Life Safety Code, Chapter 4, the National Fire Code of Canada, UAE Fire and Life Safety Code of Practice, and other codes requiring fire resistance rated and smoke resistant barriers to be maintained to provide continuous fire-resistance protection.]

- B. On Site Identification System: (Optional) Wall and floor identification system, shall be permanent, affixed, labels made that self-destruct upon removal, consisting of paper, metal or ceramic fiber materials. Firestop Identification system shall have the following information:
  - a. The words – “Firestopping – Do Not Disturb. Notify Building Management of Any Damage”
  - b. UL or other laboratory tested and listed system number.
  - c. Installing Contractor Company name, address, phone number, website.
  - d. Manufacturer Name
  - e. Date of Installation.
  - f.

**END OF SECTION 07 84 00**

**Specification is reprinted from Appendix H, “FCIA Firestop Manual of Practice” , Page App. H, FCIA Specification – Revision No. 12, 19 March 2018**