DIVISION 07 – THERMAL AND MOISTURE PROTECTION 07 80 00 FIRE AND SMOKE PROTECTION 07 84 00 FIRESTOPPING

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

- A. Maintain the fire rating of penetrated fire separations and barriers. Fire stop and seal all penetrations made during construction.
 - 1. Provide firestopping for through-penetrations and membrane penetrations of fire-rated barriers.
 - 2. Install firestopping materials in accordance with fire test reports, fire resistance requirements, and manufacturer's recommendations and installation procedures.
 - 3. For demolition and renovation work, apply firestopping to open penetrations in fire-rated barriers where piping or cabling is removed. Firestopping is required regardless of whether the penetrations are used for new piping or cabling or left empty after construction.
 - 4. Firestopping material used to seal penetrations through which cable passes shall be re-usable / re-enterable.
 - See additional requirements for telecommunications firestopping in WSU Design Standard 27 05 00 "Common Work Results for Telecommunications."

1.02 INSTALLER'S QUALIFICATIONS

A. Contractor's employees and supervisors whose duties include the application of firestoppping materials shall be trained and certified by the firestopping manufacturer.

PART 2 - PRODUCTS

2.01 PRE-APPROVED MANUFACTURERS

- A. Metacaulk
- B. Hilti
- C. Bio Fireshield
- D. 3M
- E. Specified Technologies, Inc. (STI)

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F. Proposed alternative equivalents require approval from WSU Engineering Services.

2.02 MATERIALS

- A. Provide materials classified by UL, Warnock-Hersey or Factory Mutual to provide fire barrier equal to the time rating of construction being penetrated.
- B. Provide 100% asbestos-free materials that comply with applicable codes and have been tested in accordance with UL 1479 of ASTM E814.
- C. Brittle materials, such as taping compound, plaster or spray insulation are not acceptable firestopping materials.
- D. No solvent based firestopping material.
- E. Firestopping materials shall not be soluble in water after they have cured.
- F. Firestopping mortar manufactured by Metacaulk is preferred at cable tray penetrations where feasible. Intumescent mortars shall be installed to allow for additional cable installation after initial installation.

PART 3 - EXECUTION

3.01 INSTALLATION

- A. At all cable tray penetrations, apply a manufacturer's warning label above or adjacent to the penetration, on both sides of the partition, stating that the penetration has been firestopped. The label shall include a "Do Not Remove" statement. The label shall provide a list of information on the sealed penetration:
 - 1. Firestopping product installed
 - 2. UL, FM or WH system number
 - 3. Date of installation
 - 4. Installing Contractor, Contractor's Phone Number, and Manufacturer's Phone Number.

END OF SECTION