

Section 07 8414 | Penetration Firestopping

1. GENERAL INFORMATION

A. This standard provides general penetration firestop requirements on campus as well as defines the Installer Qualifications section of the 078413 Penetration Firestopping specification. These standards shall be incorporated into the design team's drawing and specifications.

2. APPLICABILITY:

A. By default, this standard applies to projects on both the healthcare campus and education campus. The Quality Assurance section, specifically the requirement of a third-party fire-stop contractor, shall only apply to capital projects, those over \$1M in total project cost. It may be omitted from certain capital projects based on size or scope of fire barrier penetrations. Omission must be approved by the UK Project Manager.

3. GENERAL REQUIREMENTS

A. All firestopping shall be red in color.
B. Firestopping shall not be used in non-fire-rated applications.

4. QUALITY ASSURANCE

A. Installer Qualifications: A third-party contractor which specializes in penetration firestopping and meets one of the following requirements:

1. FM Research approved in accordance with FM Standard 4991, or
2. UL Qualified Firestop Contractor, or
3. Meet all of the following requirements:
 - a. Installation personnel shall be trained by the approved firestop manufacturer
 - b. The installation firm shall be experienced in installing firestop systems similar in material, design, and extent to that indicated for this project, whose work has resulted in construction with a record of successful performance
 - c. Qualifications include having the necessary experience, staff, and training to install manufacturer's products per specified tested and listed system requirements.
 - d. Minimum of three (3) years of experience and shown to have successfully completed not less than five (5) comparable scale projects with available references.

B. Installer. Subject to compliance with requirements, shall be one of the following:

1. Firestop Solutions
2. Life Safety Services
3. Remedi8
4. Strike Pro Tech
5. Universal Firestop Services
6. Other pre-approved installer

5. PENETRATION FIRESTOPPING SYSTEMS

A. Penetrations in rated walls

1. Where a cable tray route passes through a fire-resistance-rated wall or barrier, a UL-approved fire-rated cable pathway system such as the STI EZ Path or Hilti CFS-MSL shall be installed. The design engineer will need to coordinate the location and quantity of fire-rated cable pathway systems with the UK Project Management Team and UK ITS.

B. Penetrations in horizontal assemblies

1. W-Rating: Provide penetration firestopping systems with a Class 1 W-rating in accordance with UL 1479.

REVISION DATE	PAGES	REMARKS
August 2, 2024	1	Added water rating to horizontal assembly penetrations and added fire-rated cable pathway system requirements
September 27, 2024	1	Added Hilti CFS-MSL to fire-rated cable pathway section
February 11, 2026	1	Clarified that 3 rd party fire-stop contractors are required on projects over \$1M.