

Fire resistant penetrations, joint systems, and curtain wall to floor intersections

1. Acceptable firestop material manufacturers include 3M, Hilti, and STI.
2. Listed firestop details shall be provided on the project drawings. Delegation of firestopping details for penetrations, joint systems, or curtain wall to floor intersections are not allowed. Engineering Judgements (EJ's) submitted to the UM System AHJ typically will not be granted, due to the ease of availability and the variety of proven (listed) firestop systems.
3. The project plans shall include details for all proposed firestopping systems that could be encountered on the project based on the construction type and the assemblies being penetrated. A detail for each type of firestop penetration, joint system, or curtain wall to floor intersection configuration should be included (re. penetration or joint systems in fire-rated walls, floors, assemblies, smoke barriers, or membranes, exterior curtain wall to floor intersections, and head of wall conditions).
4. For renovation, addition, and remodel projects: the project work area shall be surveyed during the project design phase to document the existing firestopping conditions at all rated walls, barriers and assemblies to determine the scope of firestopping needs and creating the list of details for inclusion in the project drawings.
5. During the construction phase, upon notification or discovery of an unknown or differing firestop field condition, the design consultant will provide additional listed details as necessary to restore compromised assemblies or firestop systems.
6. Installation of firestop systems shall be performed by qualified personnel only. Installers should be International Firestop Council (IFC) certified installers; UL certified installer; Firestop Contractors International Association (FCIA) FM 4491 accredited, or a firestop manufacturer's approved installer; or equivalent. Installation personnel shall have a minimum of 3 years of experience in firestop installations. Installer qualifications must be included in the firestop submittals.
7. A firestop pre-installation meeting will be conducted on site prior to the start of any firestop work. Attendees shall include: Owners representative, Contractor superintendent, all contractor trades persons performing firestopping work, and an inspection representative.
Optional attendees: Consultant design team members, Commissioning personnel, firestop manufacturer's representative.
8. Mock up requirements: A mockup of each fire rated design fire-resistant penetration, joint system, curtain wall to floor intersection, or head of wall configuration is required and must be reviewed for acceptance as a minimum standard for the Work. Mock ups may remain in place as part of the project Work.
9. The Owner will engage a qualified (certified), independent, 3rd party special inspection agency to perform the firestop inspections as required by IBC Chapter 17.
10. Where IBC Chapter 17 special inspection requirements do not apply, all firestop system inspections will be performed by Campus or 3rd party building inspectors, as required.