Design Guideline 078413
Firestopping

Scope

For University of Michigan Hospitals and Health Centers projects refer to Design Guideline 078413-H.

Properly installed firestopping is critical to the successful fire performance of the building.

Specifications and details (where applicable) for firestopping should be included for both new construction and renovations, whether or not the renovation project involves new penetrations. Survey existing conditions for deficiencies in firestopping and unprotected wall openings, identifying both Code violations and other deficiencies. Present a summary to the Design Manager, who will determine the extent of remediation for each project.

Related Sections

U-M Design Guidelines:

Reference Documents:

Manual of Practice of the Firestop Contractors International Association (F.C.I.A.)

Design and Installation Requirements

Firestopping Design Standards

Include the Manual of Practice of the Firestop Contractors International Association (F.C.I.A.) in the "References" article of the specifications.

Firestopping Product Selection

Select products from recognized manufacturers which have been tested by one of the following agencies: Underwriters Laboratories (UL), or Intertek/Warnock-Hersey (WHI).

Include T and L ratings in addition to F ratings where applicable and/or where required by Code.

Floor Sleeves for Mechanical and Electrical Penetrations

Sleeves are highly recommended for floor penetrations to protect contents on the floor below the penetration from leakage or flooding caused by pipe breaks, sprinkler discharge, etc. In deciding where floor sleeves will be required, the Design Manager will evaluate the level of protection desired in the project and the likelihood of water damage.

Require coordination by the firestop contractor with mechanical and electrical trades so that the proper firestopping systems are selected.

Drawing Requirements

Design Professional to provide project specific details of each firestopping installation.

UL Design numbers shall be included on firestopping details

Inspection of Firestopping Installations

Normally, inspection of firestopping installations will be carried out by UM inspectors. If there are special circumstances, large projects with multiple types of applications, which require an independent testing/inspection agency, direction will be given by the Design Manager . If a testing agency is employed, include reference to it in the specifications.