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DESIGN DIRECTIVE

To: Distribution

From: Erik J. Stoothoff, P.E. *EJS*
Chief Engineer

Date: 5/22/2020

RE: Firestopping

This Design Directive is intended to consolidate, reiterate, supplement, and clarify the MBTA's approach, preferences, and requirements for all MBTA Stations and Facilities. In the event that conditions warrant deviation from this directive, a design waiver signed by the Chief Engineer and department owning the scope of work will be required of the project.

This directive is to provide guidance in the installation of firestopping at wall, floor and ceiling penetrations made during the installation or repair of conduit, cable tray, piping, riser duct, low voltage cabling, sprinkler riser, and all related materials where penetrations through fire rated assemblies are required.

Field made penetrations created to allow access through fire rated assemblies, shall be sealed using an approved rated firestopping designed solution. Every application of the firestopping system shall have a rating matching to, or greater than, that of the wall, floor or ceiling being penetrated. Every firestopping location will be documented with the appropriate manufacturer approved firestopping design application drawing showing the installation detail.

At every location where the firestopping solution is installed it shall be individually identified, numbered and dated with the installing contractor's information. Also included shall be the contract number and documented on the as-built drawings with a tracking/location number and referenced firestopping detail drawing number. This documentation will become part of the project turnover package and included within the O&M manuals.

CODES AND STANDARDS

- NFPA 70
- Massachusetts Electric Code (527 CMR 12.00)
- Massachusetts Building Code (780 CMR)
- International Building Code