

Part 1 General**1.1 Summary**

- .1 Unless otherwise indicated, follow the standards below when specifying fire-stopping work. These standards are not intended to restrict or replace professional judgment.

1.2 Design Requirements

- .1 Comply with the requirements to applicable building codes.
- .2 All applications are valid only within a fire stopping system that meet the requirement of ULC-S115.
- .3 Select products and systems from recognized manufacturers that have been tested by one of the following agencies: Underwriters Laboratories (ULC and cUL), Warnock Hersey, or Omega Point Laboratory.
- .4 The contractor shall provide the consultant with Firestop Systems for approbation before installation. The consultant shall visit the site and approve the installation before walls and floors are closed and finished.

1.3 Guarantee

- .1 The products described in this section shall be guaranteed for a period of five (5) years from the date of substantial completion of the work.

Part 2 Products**2.1 Preferred Products**

- .1 For products with Health Product Declarations (HPDs), for LEED® v4 MR Credit Building Product Disclosure and Optimization – Material Ingredients, refer to:
 - .1 Declare Product Database www.living-future.org/declare-products
 - .2 HPD Library <http://hpd.smithgroupjir.org/>
- .2 Materials that are locally sourced (extracted, manufactured, and purchased) within 160 km (100 miles) are preferred and will increase cost values for credit calculations in the Materials and Resources Building Product Disclosure and Optimization credits.

2.2 Floor Sleeves

- 1. Metal 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 University Project Manager will evaluate the level of protection desired in the project and the likelihood of water damage. Require coordination by the fire-stop contractor with mechanical and electrical trades so that the proper fire-stopping systems are selected.

2. A firestop system with a “W” rating class I, is also acceptable when the installation of a sleeve is not possible.

2.3 Wall Penetration with Cable Tray

- .1 Wall penetration with cable tray must be close with fire stop system for active openings using a fire stop product that is possible to remove and reinstall. Acceptable product: bloc FS657 or CP653 as manufactured by Hilti, or approved equivalent.

END OF SECTION