

**Part 1        General**

**1.1            INTENT**

- .1        Provide fire stopping to meet or exceed requirements of the Alberta Building Code as specified in this Section.

**1.2            RELATED SECTIONS**

- .1        None.

**1.3            REFERENCE DOCUMENTS**

- .1        Alberta Building Code, current edition.
- .2        Underwriter's Laboratories of Canada ULC S115-05 - Standard Method of Fire Tests of Firestop Systems.
- .3        Underwriter's Laboratories of Canada (ULC), ULC-FS-09 Firestop Systems and Components 2009 Edition.
- .4        Warnock Hersey (WH) Certification Listings, current edition.

**1.4            PERFORMANCE REQUIREMENTS**

- .1        Firestopping shall provide a rating as specified in Firestopping Schedule at end of this Section, when tested to ULC S115, for a rating period applicable to the fire separation.
- .2        Firestopping of electrical and communications cables shall be easily re-enterable and re-sealable with negligible risk of damage to cables, and shall not require de-rating of electrical cables.
- .3        Firestopping used to fill voids in floors having openings 100 mm diameter or larger, and which are accessible to the public, shall support floor design loading.

**1.5            Submittals**

- .1 Submit manufacturer's product data and MSDS for materials and systems. Include manufacturer's printed instructions for installation.
- .2 Data shall indicate conformance with requirements of this Section, including ULC or Warnock Hersey system number.

## **1.6 COORDINATION AND SEQUENCING**

- .1 Coordinate construction of fire separations and penetrations through fire separations with work of this Section.
- .2 Ensure penetrations have been completed prior to installing fire stopping.
- .3 Install fire stopping prior to insulation of piping, unless insulation is part of a tested fire stop system meeting requirements

## **1.7 DELIVERY, STORAGE AND HANDLING**

- .1 Deliver materials in original, unopened packaging bearing manufacturer's seals and labels intact.
- .2 Store materials off ground, under cover and away from moisture.

## **1.8 WASTE MANAGEMENT AND DISPOSAL**

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Waste Management and Disposal.
- .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
- .3 Collect and separate for disposal containers, paper, steel strapping, plastic, polystyrene, corrugated cardboard packaging material in appropriate on site bins for recycling in accordance with Waste Management Plan.
- .4 Place materials defined as hazardous or toxic in designated containers.
- .5 Handle and dispose of hazardous materials in accordance with the CEPA, TDGA, Regional and Municipal regulations.
- .6 Unused material must not be disposed of into sewer system, into streams, lakes, onto ground or in other location where it will pose health or environmental hazard.
- .7 Divert unused joint sealing material from landfill to official hazardous material collections site approved by Department Representative.

- .8 Empty plastic joint sealer containers are not recyclable. Do not dispose of empty containers with plastic materials destined for recycling.

## **Part 2 Products**

### **2.1 SYSTEMS AND MATERIALS**

- .1 Fire stopping systems: as listed under ULC-FS-09 Fire stop Systems and Components 2009 Edition, or as listed in WH Listings under "Through-Penetration Fire stopping Systems".
- .2 Fire stopping materials, whether used in a tested system or not, shall be:
  - .1 listed under ULC-FS-09 or under WH Listings,
  - .2 labelled with applicable ULC or WH label, and
  - .3 compatible with applicable substrates and openings.
- .3 Provided that all other specified requirements can be met, use any of the following products, either singly or in combination:
  - .1 Elastomeric sealant.
  - .2 Elastomeric coating.
  - .3 Mineral fibre.
  - .4 Mortar.
  - .5 Intumescent putty.
  - .6 Poured-in-place silicone foam.
  - .7 Preformed silicone foam.
  - .8 Multi-cable transit system.
  - .9 Any other product which meets all other specified requirements.
- .4 Primer: as recommended by fire stopping manufacturer for applicable substrate.

## **Part 3 Execution**

### **3.1 VERIFICATION OF CONDITIONS**

- .1 Examine condition of voids to be filled to ensure suitability for fire stop systems.

- .2 Verify installation of service penetrations and adjacent construction has been completed.

### 3.2 PREPARATION

- .1 Prepare substrates and surfaces to a clean, dry, and frost free condition, ready to receive fire stopping.
- .2 Prime substrates and surfaces to manufacturer's recommendations.

### 3.3 INSTALLATION

- .1 Provide tested fire stopping systems meeting specified performance requirements wherever the continuity of a fire separation is interrupted, electrical or other service penetrations, or by any other openings, gaps or discontinuities.
- .2 Install tested fire stopping systems in accordance with manufacturer's recommendations and in strict conformance with tested systems.

### 3.4 FIRESTOPPING SCHEDULE

---

Location	Rating
All fire separations	

---

**END OF SECTION**