

PART 1 - GENERAL

1.1 RELATED
SECTIONS

- .1 Section 01 61 00 - Common Product Requirements.
- .2 Section 01 45 00 - Quality Control.
- .3 Section 01 33 00 - Submittal Procedures.

1.2 REFERENCES

- .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .2 Underwriter's Laboratories of Canada (ULC)
 - .1 ULC-S115-1995, Fire Tests of Fire stop Systems.

1.3 DEFINITIONS

- .1 Fire Stop Material: device intended to close off opening or penetration during fire or materials that fill openings in wall or floor assembly where penetration is by cables, cable trays, conduits, ducts and pipes and poke-through termination devices, including electrical outlet boxes along with their means of support through wall or floor openings.
- .2 Single Component Fire Stop System: fire stop material that has Listed Systems Design and is used individually without use of high temperature insulation or other materials to create fire stop system.
- .3 Multiple Component Fire Stop System: exact group of fire stop materials that are identified within Listed Systems Design to create on site fire stop system.
- .4 Tightly Fitted; (ref: NBC Part 3.1.9.1.1 and 9.10.9.6.1): penetrating items that are cast in place in buildings of noncombustible construction or have "0" annular space in buildings of combustible construction.
 - .1 Words "tightly fitted" should ensure that integrity of fire separation is such that it prevents passage of smoke and hot gases to unexposed side of fire separation.

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- 1.4 SUBMITTALS
- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
 - .3 Shop Drawings:
 - .1 Submit shop drawings to show proposed material and method of installation.
 - .2 Construction details should accurately reflect actual job conditions.
 - .4 Samples:
 - .1 Submit samples showing actual fire stop material proposed for project.
 - .5 Quality assurance submittals: submit following in accordance with Section 01 45 00 - Quality Control.
 - .1 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .2 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures with Section 01 33 00 - Submittal Procedures.
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- 1.5 DELIVERY, STORAGE AND HANDLING
- .1 Packing, shipping, handling and unloading:
 - .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
 - .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
 - .3 Deliver materials to the site in undamaged condition and in original unopened containers, marked to indicate manufacturer seals and labels ULC markings.
 - .2 Storage and Protection:
 - .1 Store materials indoors in dry location, keep from freezing and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Replace defective or damaged materials with new.
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1.5 DELIVERY,
STORAGE AND
HANDLING
(Cont'd) .3 Waste Management and Disposal:
.1 Separate waste materials for reuse and
recycling in accordance with Section 01 74 21 -
Construction/Demolition Waste Management and
Disposal.

1.6 MEASUREMENT FOR
PAYMENT .1 No measurement for payment to be made under this
section. Include cost in unit prices for item in
treated timber cribwork.

PART 2 - PRODUCTS

2.1 MATERIALS .1 Fire stopping and smoke seal systems: in
accordance with CAN-ULC-S115.
.1 Asbestos-free materials and systems capable
of maintaining effective barrier against flame,
smoke and gases in compliance with requirements of
CAN- ULC-S115 and not to exceed opening sizes for
which they are intended and conforming to
specified special requirements described in PART
3.
.2 Fire stop system rating: 1.5 Hour Rating.
.2 Service penetration fire stop components:
certified by test laboratory to CAN-ULC-S115.
.3 Fire-resistance rating of installed fire stopping
assembly in accordance with NBC.
.4 Water (if applicable): potable, clean and free
from injurious amounts of deleterious substances.
.5 Damming and backup materials, supports and
anchoring devices: to manufacturer's
recommendations, and in accordance with tested
assembly being installed as acceptable to
authorities having jurisdiction.
.6 Sealants for vertical joints: non-sagging.

PART 3 - EXECUTION

- 3.1 MANUFACTURER'S INSTRUCTIONS .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.
- 3.2 PREPARATION .1 Examine sizes and conditions of voids to be filled to establish correct thicknesses and installation of materials.
.1 Ensure that substrates and surfaces are clean, dry and frost free.
.2 Prepare surfaces in contact with fire stopping materials and smoke seals to manufacturer's instructions.
- 3.3 INSTALLATION .1 Install fire stopping and smoke seal material and components in accordance with manufacturer's certified tested system listing.
.2 Seal holes or voids made by through penetrations, poke-through termination devices, and unpenetrated openings or joints to ensure continuity and integrity of fire separation are maintained.
.3 Provide temporary forming as required and remove forming only after materials have gained sufficient strength and after initial curing.
.4 Tool or trowel exposed surfaces to neat finish.
.5 Remove excess compound promptly as work progresses and upon completion.
- 3.4 SEQUENCES OF OPERATION .1 Proceed with installation only when submittals have been reviewed by Departmental Representative.
- 3.5 FIELD QUALITY CONTROL .1 Inspections: notify Departmental Representative when ready for inspection and prior to concealing or enclosing fire stopping materials and service penetration assemblies.

3.5 FIELD QUALITY CONTROL
(Cont'd)

- .2 Manufacturer's Field Services:
- .1 Obtain written report from manufacturer verifying compliance of Work, in handling, installing, applying, protecting and cleaning of product and submit Manufacturer's Field Reports as described in PART 1 - SUBMITTALS.
 - .2 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
 - .3 Schedule site visits, to review Work, as directed in PART 1 - QUALITY ASSURANCE.

3.6 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.
- .3 Remove temporary dams after initial set of fire stopping and smoke seal materials.