

SECTION 07842: FIRE-RESISTIVE JOINT SYSTEMS

PART I – GENERAL

WORK SPECIFIED HEREIN

All labor, materials, equipment and services necessary to furnish all fire-rated sealants and related materials and perform all sealing of fire rated joints as indicated or specified.

See Section 07920 for conventional sealants.

SUBSTITUTIONS

In accordance with Section 01600.

SUBMITTALS

Unless otherwise noted, the contractor shall prepare all shop drawings, product literature, etc. only as required to properly coordinate and construct the project.

Review of submittals by the Professional of Record is limited to specific shop drawings as called for in the Project Manual.

Shop drawings for review by the Professional of Record are not required for this section.

PRODUCT DELIVERY, STORAGE AND HANDLING

Deliver sealant to the job site in sealed containers, each bearing manufacturer's name and product designation.

JOB CONDITIONS

Do not apply sealants in temperatures or to material below 40° F.

Seal penetrations before final coat of paint or before application of any clear or stain waterproofing compounds.

Do not apply sealants to surfaces that are wet.

QUALITY ASSURANCE

All sealants and related materials shall conform to the following applicable standards:

- ASTM E119 Fire Tests of Building Construction and Materials.
- ASTM E814 Fire Tests of through penetration fire stops.
- UL 1479 Firestops, fire tests of through penetrations.

All products shall have been tested and classified by UL. Refer to UL Building Materials Directory: "Through-Penetration Firestop Systems (XHEZ)", and "Fill, Void or Cavity Materials (XHHW)".

PART II – PRODUCTS

MATERIALS

Products shall be one part compositions, synthetic elastomeric organic/inorganic intumescent material, as follows:

CP-25 WB (caulk)

MPS-2 Mouldable Putty (putty)

FS-195 (wrap/strip)

CS-195 (composite sheet)

Refer to Material and Product List on Drawings for additional information.

PART III – EXECUTION

GENERAL

Qualified applicators shall apply sealants in conformance with manufacturer's written directions.

Examine all surfaces and report all conditions not acceptable.

Remove loose dirt and oil from penetration surfaces. Install hangers or damming material if necessary. Place the required amount of firestopping material in the penetration to obtain the desired rating (1, 2, or 3 hour rating). If required, install top cap and smoke seal.

METHODS

All depth requirements are the installed or "wet" depth.

Precaution: During application of CP-25 and Putty 303, keep away from heat, open flame, sparks or other sources of ignition until product cures. Use only with adequate ventilation.

All joints to receive sealant shall be as indicated on Shop or Project Drawings. Do not seal joints until they are in compliance with Drawings; or meet with the approval of the Architect.

Clean adjacent surfaces of sealant as work progresses. Use solvent or cleaning agent as recommended by sealant manufacturer. All finished work shall be left in a neat, clean condition.

PART IV - SCHEDULE

Provide fire-rated sealants at the following locations. This schedule is not to be construed to be complete. Provide fire-rated sealant at other areas as indicated.

Fire seal all penetrations made by:

- Ducts
- Cable, power and/or telephone
- Conduit
- Pipe, steel, plastic, insulated or uninsulated

Thickness of sealant shall be appropriate to provide same fire-rating as the fire wall/floor assembly it penetrates.

END OF SECTION

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