

SECTION 14

FIRE-RESISTANT MATERIALS

Sprayed

OBJECTIVE

The purpose of spray-applied fire-resistant materials observation is to verify that the application of material is in accordance with the project specifications, applicable codes, and manufacturer's recommendations. Proper scheduling and coordination by the general contractor is imperative.

The Statement of Special Inspections, prepared by the responsible design professional, will define the special inspection task(s) required. Qualified special inspectors who diligently perform the duties listed below while under the direct supervision of the materials engineering laboratory can best achieve this objective.

OBSERVATION DUTIES

A. Documents

1. Review the approved plans, specifications, and manufacturer's recommendations.
2. Review applicable sections of referenced codes and standards (CBC Section 1704.10, AWCI 12-A).

B. Observation Procedures

1. Verify substrate condition for cleanliness prior to application.
2. Verify application in accordance with code, referenced standard, and specifications.

C. Testing and Sampling Duties

1. Measure thickness of spray-applied fire-resistive material in accordance with specifications, CBC Section 1704.10 and AWCI 12-A.
2. Remove and deliver samples to materials engineering laboratory for unit weight tests.
3. Perform cohesive/adhesive bond strength tests per ASTM E736.
4. Re-inspect areas repaired due to insufficient thickness or damage by sampling, tenant improvements, panel placement, rain, etc. (This work must be scheduled and coordinated by the general contractor.)

D. Reports

1. Submit written progress reports describing the tests and observations made and showing the action taken to correct nonconforming work. Itemize any changes authorized by architect/engineer. Report all uncorrected deviations from plans or specifications.

Mastic & Intumescent

OBJECTIVE

The purpose of mastic and intumescent fire-resistant coatings observation is to verify that the application of material is in accordance with the project specifications, applicable codes, and manufacturer's recommendations. Proper scheduling and coordination by the general contractor is imperative.

The Statement of Special Inspections, prepared by the responsible design professional, will define the special inspection task(s) required. Qualified special inspectors who diligently perform the duties listed below while under the direct supervision of the materials engineering laboratory can best achieve this objective.

OBSERVATION DUTIES

A. Documents

1. Review the approved plans, specifications, and manufacturer's recommendations.
2. Review applicable sections of referenced codes and standards (CBC Section 1704.11, AWCI 12-B).

B. Observation Procedures

1. Verify substrate condition for cleanliness prior to application.
2. Verify application in accordance with code, referenced standard, and specifications.

C. Testing Duties

1. Measure thickness of mastic or intumescent coating in accordance with specifications, CBC Section 1704.11 and AWCI 12-B.
2. Re-inspect areas repaired due to insufficient thickness or damage by sampling, tenant improvements, panel placement, rain, etc. (This work must be scheduled and coordinated by the general contractor.)

D. Reports

1. Submit written progress reports describing the tests and observations made and showing the action taken to correct nonconforming work. Itemize any changes authorized by architect/engineer. Report all uncorrected deviations from plans or specifications.