

SECTION 07 81 00 {07810}

APPLIED FIREPROOFING

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This section includes cementitious and mineral fiber fireproofing, spray applied and intumescent paint fireproofing to achieve fire protection.

Manufacturers listed in this section were identified as representative and not as an endorsement for meeting this specification. For additional product information, visit 4Specs at [www.4specs.com](http://www.4specs.com), ARCAT at [www.arcats.com](http://www.arcats.com), First Source at [www.reedfirstsource.com](http://www.reedfirstsource.com), SpecSource at [www.specsource.com](http://www.specsource.com), and Sweets Network at [products.construction.com](http://products.construction.com).

This section includes performance, proprietary, and descriptive type specifications. When performance approach is chosen, edit section to allow use of fireproofing types meeting Project requirements. Base descriptive approach on requirements important to Project and would normally be limited to one generic type. Edit to avoid conflicting requirements.

Contact the CSRF Support Center at [supportcenter@csrf.org](mailto:supportcenter@csrf.org) to submit comments or suggestions for improvements to this specification. Visit the SPECTEXT web site at [www.spectext.com](http://www.spectext.com) for current product announcements.

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PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Spray-on cementitious fireproofing for interior structural steel.
2. Spray-on cementitious fireproofing for exterior [exposed] structural steel.
3. Intumescent paint fireproofing for structural steel.

B. Related Sections:

1. Section 05 12 00 - Structural Steel Framing.
2. Section 05 21 00 - Steel Joist Framing.
3. Section 05 31 13 - Steel Floor Decking.
4. Section 05 31 23 - Steel Roof Decking.
5. Section 07 84 00 - Firestopping.
6. Section 09 21 16 - Gypsum Board Assemblies: Gypsum board fireproofing.
7. Section 09 23 00 - Gypsum Plastering: Gypsum plaster fireproofing.

C. Related Sections:

1. Section 05120 - Structural Steel.
2. Section 05210 - Steel Joists.
3. Section 05311 - Steel Floor Deck.
4. Section 05312 - Steel Roof Deck.

- 5. Section 07840 - Firestopping.
- 6. Section 09260 - Gypsum Board Assemblies: Gypsum board fireproofing.
- 7. Section 09210 - Gypsum Plaster: Gypsum plaster fireproofing.

## 1.2 REFERENCES

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List reference standards included within text of this section. Edit the following for Project conditions.

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- A. Association of the Wall and Ceilings Industries International:
  - 1. AWCI 12-B - Standard Practice for the Testing and Inspection of Field Applied Thin-Film Intumescent Fire-Resistive Materials; an Annotated Guide.
  
- B. ASTM International:
  - 1. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing.
  - 2. ASTM C847 - Standard Specification for Metal Lath.
  - 3. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 4. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials.
  - 5. ASTM E605 - Standard Test Methods for Thickness and Density of Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members.
  - 6. ASTM E736 - Standard Test Method for Cohesion/Adhesion of Sprayed Fire-Resistive Materials Applied to Structural Members.
  - 7. ASTM E760 - Standard Test Method for Effect of Impact on Bonding of Sprayed Fire-Resistive Material Applied to Structural Members.
  - 8. ASTM E761 - Standard Test Method for Compressive Strength of Sprayed Fire-Resistive Material Applied to Structural Members.
  - 9. ASTM E859 - Standard Test Method for Air Erosion of Sprayed Fire-Resistive Materials (SFRMs) Applied to Structural Members.
  - 10. ASTM E937 - Standard Test Method for Corrosion of Steel by Sprayed Fire-Resistive Material (SFRM) Applied to Structural Members.
  - 11. ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi.
  
- C. FM Global:
  - 1. FM - Approval Guide, A Guide to Equipment, Materials & Services Approved By Factory Mutual Research For Property Conservation.
  
- D. Green Seal:
  - 1. GC-03 - Anti-Corrosive Paints.
  - 2. GS-11 - Product Specific Environmental Requirements.
  
- E. Intertek Testing Services (Warnock Hersey Listed):
  - 1. WH - Certification Listings.
  
- F. Underwriters Laboratories Inc.:
  - 1. UL - Fire Resistance Directory.