



# Clark County Department of Building & Fire Prevention

4701 West Russell Road, Las Vegas, NV 89118 ~ (702) 455-3000

## Fireproofing for Steel Construction Building Permit Guide

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### Part I. General Information

This guide outlines fireproofing submittal requirements for steel construction to ensure proper plan review and inspection.

### Part II. Applicant's Responsibility

It shall be the applicant's responsibility to provide a completed application.

### Part III. Prerequisites

- Fire proofing plans and supporting documents must be submitted with the structural plans and shall be prepared, signed and stamped by a Nevada registered architect or professional engineer (as applicable for the discipline involved).  
The Cover sheet must be "wet-stamped" with an original signature of the design professional. Subsequent sheets within the element or professional discipline may be a reproduction of the stamp and signature.
- Deferred submittals may be allowed except for those projects approved for phased design and submittal; however, a note must be included in the construction documents prepared by the design professional(s) indicating the deferred items and must be approved by the Department of Building prior to the issuance of the building permit.

**Note:** The submittal and approval of the deferred items must occur prior to the installation of the specific element. The Department of Building accepts these submittals as revisions in the application processing system.

### Part IV. Applicable Codes

Currently adopted:

- International Building Code (IBC)
- Southern Nevada Code Amendments.

### Part V. Submittal Package

Three (3) complete sets of drawings, drawn to scale (minimum 1/8" = 1'10") upon 36' x 42" minimum size substantial paper which are of sufficient clarity for document scanning.

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## Part VI. Plan Contents

In order to provide a complete review, the following submittal information is required:

- A complete building code analysis, prepared by the Architect of Record, indicating the applicable code, type of construction, and fire-resistance rating requirements for all building elements.
- Ensure each sheet has been signed/stamped and dated by the design professional.
- Structural framing backgrounds, drawn to scale, shall be used to indicate the required fireproofing (i.e. thickness of spray-applied fireproofing and/or hourly fire-resistance rating) for each member (e.g. W8x10 (5/8") and/or W8x10 (3-hours)).
- Fireproofing schedules that identify UL design numbers, W/D and/or A/P ratios, restraint conditions (restrained or unrestrained), required hourly fire-resistance ratings, type of concrete (normal weight or lightweight), and the minimum thicknesses of spray-applied fireproofing of intumescent fireproofing for each structural steel element applicable to the project.

**Note:** Per IBC Section 703.2.3, fire-resistance-rated assemblies tested under ASTM E119 shall not be considered to be restrained unless evidence satisfactory to the Building Official is furnished by the registered design professional showing that the construction qualifies for a restrained classification in accordance with ASTM E119. Restrained construction shall be identified on the plans. If using the information (i.e. UL design numbers, W/D and/or A/P ratios, minimum thicknesses of fireproofing) provided by the manufacturer (i.e. W.R. Grace, Isolatek), include a note in the fireproofing plans indicating the name of the manufacturer being used. Generic, all-inclusive fireproofing schedules are not acceptable (i.e. only the structural members used in the project shall be included in the fireproofing schedule).

- Product specific construction details, required hourly rating(s), and approved, tested designs of gypsum wallboard assemblies used for required fire-resistance ratings of structural elements.
- Construction details for spray-applied fireproofing to be installed on open web trusses, plate girders (PG), and build-up columns.
- For deferred submittals, on one (1) copy of the referenced structural plans must be included.
- Color coded plans will not be accepted.
- Plans with inked annotations, taped or glued information, or anything similar, will not be accepted.

## Part VII. Quality Assurance Agency (QAA) Special Inspections Agreement

- The owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more special inspectors to provide inspections during construction on the types of work listed under IBM Section 1704.

**NOTE:** Per IBC Section 1704.10 and IBC Section 1704.11, special inspection is required for spray fire-resistant materials and mastic and intumescent fire-resistant coatings respectively.

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- Special inspections shall be based on the fire-resistance design as designated in the approved construction documents.

## Department Of Building & Fire Prevention Locations & Services

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| <b>MAIN OFFICE</b><br>4701 W. Russell Road<br>Las Vegas, NV 89118<br>(702)455-3000                           | On-Site Plan Submittals<br>All "Walk-Through" Plan Review / Permitting Functions<br>Residential Tract Submittal / Permitting<br>All Sub-Trade (Electrical, Plumbing & Mechanical) Permitting<br>Building Inspection Scheduling Functions<br>Fire Prevention Inspection Services<br>Records | Temporary Certificate of Occupancy Submittals<br>Building Inspections<br>Building Inspector Inquiries<br>Amusement / Transportation Systems Operation Certificates<br>Approved Fabricators<br>Quality Assurance Agency Listing |
| <b>LAUGHLIN OFFICE</b><br>Regional Government Center<br>101 Civic Way<br>Laughlin, NV 89029<br>(702)298-2436 | Building Inspection Services<br>Fire Prevention Inspection Services  |  |
| <b>OVERTON OFFICE</b><br>320 North Moapa Valley Blvd.<br>Overton, NV 89040<br>(702)397-8089                  | Building Inspection Services<br>Fire Prevention Inspection Services  |  |

### Automated Phone System (702) 455-3000

- Option 1:** For all Inspection services or to report a building code violation.
- Option 2:** For information regarding on-site permits or new plan submittals.
- Option 3:** For the Building Plans Examination division or QAA information.
- Option 4:** For the Zoning Plans Examination division.
- Option 5:** For information or copies regarding land development, construction documents, plans or permits.
- Option 6:** To speak with Management staff.
- Option #:** For hours of operation, Office location and website information.

### Other Clark County Departments/Divisions/Districts

|   |   |                |
|---|---|----------------|
| Air Quality & Environmental Management    | 500 S. Grand Central Parkway, Las Vegas NV  | (702) 455-5942 |
| Public Works, Development Review Services | 500 S. Grand Central Parkway, Las Vegas NV  | (702) 455-6000 |
| Comprehensive Planning                    | 500 S. Grand Central Parkway, Las Vegas NV  | (702) 455-4314 |
| Fire Department                           | 575 E. Flamingo Road, Las Vegas NV          | (702) 455-7316 |
| Las Vegas Valley Water District           | 1001 S. Valley View Boulevard, Las Vegas NV | (702) 870-2011 |
| Southern Nevada Health District           | 625 Shadow Lane, Las Vegas NV               | (702) 759-1000 |
| Water Reclamation District                | 5857 E. Flamingo Road, Las Vegas NV         | (702) 668-8888 |

### State of Nevada

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|--------------------------------|--|----------------|
| Division of Water Resources    | 400 Shadow Lane, Suite 201, Las Vegas NV       | (702) 486-2770 |
| Nevada State Contractors Board | 2310 Corporate Circle, Suite 200, Henderson NV | (702) 486-1100 |

### Utilities

|               |   |                |
|---------------|---|----------------|
| Nevada Power  | 6226 W. Sahara Avenue, Las Vegas NV     | (702) 402-5555 |
| Southwest Gas | 5241 Spring Mountain Road, Las Vegas NV | (877) 860-6020 |

[www.clarkcountynv.gov/building](http://www.clarkcountynv.gov/building)