



20 E Olive Street Ste 208 • PO Box 1230
Bozeman, MT 59771-1230
Phone: (406) 582-2375 • Fax: (406) 582-2256

Statement of Special Inspection
(2006 International Building Code 1704 – 1709)

Project: _____

Address: _____

Permit Number: _____

Owner's Name: _____

Design/Engineering Firm: _____

Document Prepared by:

(stamp & sign above)

1. Check applicable boxes for all work requiring special inspection

IBC Section 1704 special inspections:

- Inspection of Fabricators (1704.2)
- Steel Construction (1704.3 & Table 1704.3) (welding, high strength bolts)
- Concrete Construction (1704.4 & Table 1704.4)
- Masonry Construction (1704.5 & Tables 1704.5.1 & 1704.5.3)
- Wood Construction (1704.6 & Table 2306.3.2)
- Soils (1704.7 & 1802.2)
- Pile Foundations (1704.8 & Table 1704.8)
- Pier Foundations (1704.9 & Table 1704.9)
- Sprayed Fire Resistant Materials (1704.10)
- Mastic & intumescent fire-resistant coatings (1704.11)
- Exterior Insulation and finish Systems (EIFS) (1704.12)
- Smoke Control (1704.14)

IBC Section 1705 Statement of Special Inspections provided by registered design professional (Items 1-5 to be addressed).

IBC Section 1707 Special Inspections for Seismic Resistance:

- Structural Steel (1707.2)

- Structural Wood (1707.3)
- Cold Form Steel Framing (1707.4)
- Pier Foundations (1707.5)
- Storage Racks and Access Floors (1707.6)
- Architectural Components (1707.7)
- Mechanical and Electrical Components (1707.8)
- Designated Seismic System Verifications (1707.4)
- Seismic Isolation System (1707.10)

IBC Section 1708 Structural Testing for Seismic Resistance

- Masonry (1708.1)
- Testing for Seismic Resistance (1708.2)
- Reinforcing and pre-stressing steel (1708.3)
- Structural Steel (1708.4)
- Seismic Qualification of Mechanical and Electrical Components (1708.5)
- Seismically Isolated Structures (1708.6)

2. Names of individuals or firms intended to be retained for the special inspections listed above:

Special Inspection	Name of Responsible firm or individual
Inspection of Fabricators	
Steel Construction	
Concrete Construction	
Masonry Construction	
Wood Construction	
Soils	
Pile Foundations	
Pier Foundations	
Sprayed Fire-resistant Materials	
Mastics and Intumescent Fire-resistant Coatings	
Exterior Insulation and Finish Systems (EIFS)	
Special Cases	
Special Inspection for Smoke Control	
Cold-formed Steel Framing	
Storage Racks and Access Floors	
Architectural Components	
Mechanical and Electrical Components	
Seismic Isolation System	

3. Duties of the special inspector for the work listed above: The required inspection and testing duties of the special inspector are included in the project's **Quality Assurance Plan for Seismic Resistance (IBC 1705) and/or Wind Requirements (IBC 1706)**. The special Inspector shall submit a final signed report stating whether the work requiring special inspection was, to the best of the inspector's knowledge, in conformance with the approved plans, specifications, and applicable workmanship provisions of the 2003 IBC.

Type and Frequency of Required Special Inspection Testing

Inspection of Fabricators (1704.2)

- 1.) Plate connected wood trusses: to qualify as an approved fabricator in accordance with section 1704.2.2, the contractor shall submit evidence that the truss supplier complies with the quality assurance requirements of the project specifications.
- 2.) Structural steel: To qualify as an approved fabricator in accordance with section 1704.2.2, the contractor shall submit evidence that the structural steel fabricator participates in AISC-Certified Quality Certification Program and is designated as an AISC-Certified Plant or approved equivalent.

Steel Construction (1704.3, 1707.2, 1708.4)

- 1.) Material verification:
 - a. Structural steel: Manufacturer's certified mill test reports for all structural steel shall be provided by the contractor. The special inspector retained by the owner shall periodically verify that identification markings conform to ASTM standards indicated in the approved construction documents.
 - b. High strength bolting: The manufacturer's certificate of compliance for the high strength bolts, nuts, and washers shall be provided by the contractor. The special inspector retained by the owner shall periodically verify that identification markings on the bolts conform to the ASTM standards indicated in the approved construction documents.
 - c. Weld filler materials: The manufacturer's certificate of compliance for the weld filler materials shall be provided by the contractor. The special inspector retained by the owner shall periodically verify that identification markings on the weld filler materials conform to the AWS standards indicated in the approved construction documents.
- 2.) High strength bolting: The special inspector retained by the owner shall provide periodic inspection of all high strength (i.e. A325) shop and field bolted connections in accordance with chapter 17 of the 2003 IBC and the approved construction documents.
- 3.) Field welding: The special inspector retained by the owner shall inspect shop and field welded connection in accordance with chapter 17 of the 2003 IBC and the approved construction drawings. Periodic inspection is acceptable for single pass fillet welds less than 5/16" and floor and deck welds. Continuous special inspection shall be provided for all complete and partial penetration groove welds, multiple pass fillet welds, and single pass fillet welds equal to or exceeding 5/16".

Concrete Construction (1704.4, 1708.3)

- 1.) Material verification (reinforcing steel): Certified mill test reports for each shipment of reinforcing steel shall be submitted by the contractor and approved by the architect/engineer prior to initiating concrete work. The special inspector retained by the owner shall periodically verify that identification markings on the reinforcing steel conforms to ASTM standards indicated in the approved construction documents.
- 2.) Material verification (concrete): The contractor shall submit mix designs for approval by the architect/engineer in accordance with the project specifications prior to initiating concrete work.
- 3.) Inspection of reinforcing steel: Periodic inspection of reinforcing steel prior to pouring concrete shall be provided in accordance with chapter 17 of the 2003 IBC by the special inspector retained by the owner.
- 4.) Inspection of bolts prior to and during concrete installation: Continuous inspection of bolts installed in concrete shall be provided in accordance with chapter 17 of the 2003 by the special inspector IBC by the special inspector retained by the owner
- 5.) Verification of use of approved mix design: The special Inspector hired by the owner shall periodically verify that concrete being placed is in accordance with the approved mix design.
- 6.) Inspection of concrete for proper application techniques: Continuous inspection of the concrete placement techniques shall be provided in accordance with chapter 17 of the 2003 IBC by the special inspector retained by the owner.
- 7.) Inspection for maintenance of specified curing temperature and techniques: Periodic inspection for maintenance of specified curing temperature and techniques shall be provided in accordance with the approved construction documents and chapter 17 of the 2003 IBC by the special inspector retained by the owner.
- 8.) Sampling and testing concrete: The testing agency retained by the owner shall provide sampling and testing of concrete as indicated in the project specifications and chapter 17 of the 2003 IBC.
- 9.) Inspection of epoxy anchors and epoxy reinforcing: The special inspector retained by the owner shall provide continuous inspection of all epoxy anchoring for bolts and or reinforcing steel. Inspection shall be provided to verify that the product is being installed in accordance with the manufacturer's directions and requirements.

Wood Construction (1704.6, 1707.3)

- 1.) The special inspector retained by the owner shall provide periodic inspection in accordance with chapter 17 of the 2003 IBC for nailing, bolting, anchoring, and other fastening of the following seismic resisting elements:
 - a. Wood sheathing (wall, floor, roof)
 - b. Drag strut elements
 - c. Braces
 - d. Holdowns

Soils (1704.7)

- 1.) Prior to placement of foundation formwork or reinforcing or structural fill, the special inspector shall determine the following:
 - a. The foundation and slab subgrade has been prepared in accordance with the geotechnical report.
 - b. The utility trenches within the building footprint have been properly backfilled and compacted.
 - c. During placement of fill material, the material being used and the maximum lift thickness complies with the geotechnical report.
 - d. At the frequency indicated in the approved construction documents, the in-place-density of the compacted fill complies with the geotechnical report.

Required Structural Observations (2003 IBC 1709)

- 1.) Structural observations shall be provided for those structures included in seismic design category D, E, or F, as determined by Section 1616 where one or more of the following conditions exist:
 - The structure is included in Seismic Use Group II or III
 - The height of the structure is greater than 75 feet above the base
 - The structure is in seismic design category E and use group I and greater than two stories in height
 - When so designated by the registered design professional in responsible charge of the design
 - When such observation is specifically required by the building official
- 2.) Structural observations shall also be provided for structures in areas where the wind speed exceeds 110 mph where one or more of the following conditions exist:
 - The structure is included in category III or IV according to table 1604.5
 - The height of the structure is greater than 75 feet
 - Same as d. & e. above
- 3.) Deficiencies shall be reported in writing to the owner and the building official. At the conclusion of the work included in the permit, the structural material that are identified by the manufacturer's designation as to manufacture and grade by mill tests, or the strength and stress grade is otherwise confirmed to the satisfaction of the building official a written statement that the site visits have been made and identify any reported deficiencies which, to the best of the structural observer's knowledge, have not been resolved.

- 4.) Structural Observations (Seismic Resistance) - The Owner shall employ a registered design professional to perform structural observations (See definition in 1702).
- Structure is classified an Occupancy category III or IV in accordance with Section 1604.5;
 - When so designated by the registered design professional in responsible charge;
 - When such observation is specifically required by the building official.