



**CITY OF LAKEWOOD**  
 Community Development Department  
 Building Division  
 6000 Main St SW  
 Lakewood, WA 98499  
 (253) 512-2261

**SPECIAL INSPECTION REQUIREMENTS Form**  
 (International Building Code, Chapter 17, Section 1705)

Project:	Permit:
Address:	Date:
Testing Agency:	Phone:
<b>WABO CERTIFIED - <input type="checkbox"/> YES <input type="checkbox"/> NO</b>	

**Structural Engineer of Record (EOR)**

\_\_\_\_\_  
**Structural Engineer of Record Name**

\_\_\_\_\_  
**Signature & Date**

**Structural Observation Required IBC 1704.6**

\_\_\_\_\_  
**Structural Observer's Name**

\_\_\_\_\_  
**Signature & Date**

**Architect of Record:**

\_\_\_\_\_  
**Architect of Record Name**

\_\_\_\_\_  
**Signature and Date**

**Owner or Owner's Authorized Agent in Charge of Submittals to the Building Official IBC 1704.5:**

\_\_\_\_\_  
**Name**

\_\_\_\_\_  
**Signature & Date**

**Contractor**

\_\_\_\_\_  
**Contractor Name**

\_\_\_\_\_  
**Signature & Date**



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## **SPECIAL INSPECTION REQUIREMENTS Form**

(International Building Code, Chapter 17, Section 1705)

To applicants of projects requiring Special Inspection or Testing per Section 1705 of the International Building Code, as amended by Washington State; please acknowledge and return this form to the City of Lakewood Building Division. **THESE INSPECTIONS ARE NOT PERFORMED BY THE BUILDING DEPARTMENT AND MUST BE PERFORMED BY QUALIFIED SPECIAL INSPECTORS, HIRED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL.**

All individual inspectors to be employed on this project will be WABO certified for the type of inspection they are to perform. If inspection is for work that is not covered by the WABO categories, a detailed resume of the inspector and firm must be submitted. The resume must show the inspector and firm are qualified to perform the work and testing required by the project design and specifications.

**The Owner and General Contractor and Inspection/Testing Agency, where applicable, shall also acknowledge the following conditions applicable to Special Inspection and/or Testing.**

1. Inspection/Testing Agency to submit names and qualification of on-site Special Inspectors to the Building Inspection Division for approval **PRIOR TO PERMITS BEING ISSUED.**
2. All special inspections shall be continuous unless otherwise noted and approved by the Building Official.
3. It is the responsibility of the General Contractor to review City approved plans for additional inspection or testing requirements that may be noted.
4. The General Contractor is responsible for proper notification to the **Inspection/Testing Agency** for items listed on the back of this form.
5. Testing laboratory personnel only should take samples and transport them to their laboratory or storage as required.
6. Special Inspectors shall provide detailed weekly reports to the Building Inspection Division of all inspection activities.
7. Copies of all laboratory and inspection reports are to be sent directly to the Building Inspection Division by the Inspection/Testing Agency or other responsible party within a reasonable time to test results.
8. **BEFORE A CERTIFICATE OF OCCUPANCY PERMIT CAN BE ISSUED:** The Inspection/Testing Agency shall submit a statement that all items requiring testing and inspection have been fulfilled and reported and a final inspection letter shall be provided. Those items not tested and/or inspected shall be noted in this statement. A copy of statement to be maintained at the job site for the City's Building Inspectors review prior to final inspections.

**A completed and signed copy of pages 1 through 6 of this form shall be submitted to this department prior to building permit approval.**

**2021 International Building Code; Chapter 17:**

- 1. Structural Steel 1705.2. & 1705.2.1.
- 2. Cold form steel deck 1705.2.2.
- 3. Open-web steel joists & girders 1705.2.3.
- 4. Cold form steel trusses spanning 60 feet or greater 1705.2.4.
- 5. Concrete construction 1705.3 & Table 1705.3.
- 6. Shotcrete 1908 ACI 318.
- 7. Welding of reinforcing bars 1705.3.1.
- 8. Material Tests 1705.3.2.
- 9. Masonry Construction 1705.4.
- 10. Glass unit masonry & masonry veneer in Risk Category IV 1705.4.1.
- 11. Vertical masonry foundation elements 1705.4.2.
- 12. Wood construction 1705.5.
- 13. High Load Diaphragms 1705.5.1.
- 14. Metal-plate connected wood trusses spanning 60 feet or greater 1705.5.2.
- 15. Soils 1705.6 & Table 1705.6.
- 16. Driven deep foundations 1705.7 & Table 1705.7.
- 17. Cast in-place deep foundations 1705.8 & Table 1705.8, Helical pile Foundation 1705.9.
- 18. Fabricated items 1705.11.
- 19. Structural wood 1705.12.
- 20. Special inspection for seismic resistance 1705.13.
- 21. Special inspection for structural steel per 1705.13.1.
- 22. Special inspection for structural wood per 1705.13.2.
- 23. Special inspection for cold-formed steel per 1705.13.3
- 24. Designated seismic systems 1705.13.4.
- 25. Architectural components 1705.13.5.
- 26. Plumbing, mechanical & electrical components 1705.13.6 WA amendments.
- 27. Storage racks 1705.13.7.
- 28. Seismic isolation systems 1705.13.8.
- 29. Cold-formed steel special bolted moment frames 1705.13.9.
- 30. Testing for seismic resistance 1705.13, Non-Structural components 1705.13.2.

- 31. Sprayed fire-resistance materials 1705.15.
- 32. Mastic & intumescent fire-resistance costings 1705.16.
- 33. Fire-resistance penetrations and joints 1705.18.
- 34. Exterior insulation & finish systems (EIFS) 1705.17.
- 35. SIP Panel Installations PER ESR-1882.
- 36. Testing for smoke control 1705.19.
- 37. Sealing of Mass timber 1705.20.
- 38. Submittals to the building official 1704.5.
- 39. Structural observation 1704.6.
- 40. Structures classified as Risk Category III or IV located in Seismic Design Category D, 1704.6.1
- 41. IBC 1705.1.1 Special Cases and Tests shall be required for proposed work that is in the opinion of the building official, unusual in its nature, but not limited to the following examples:
  - 1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.
  - 2. Unusual design applications of materials described in this code.
  - 3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.
- 42. 110.3.6 Weather-exposed balcony and walking surface waterproofing.  
 Where balconies or other elevated walking surfaces are exposed to water from direct or blowing rain, snow or irrigation, and the structural framing is protected by an impervious moisture barrier, all elements of the impervious moisture barrier system shall not be concealed until inspected and approved.  
  
 Exception: Where special inspections are provided in accordance with Section 1705.1.1, Item 3.
- 43. Lakewood Municipal Code section 15.05.06.H.  
 Building official may require a special inspection for a particular item or system that when necessary to show conformance with the codes.

All individual inspectors to be employed on this project will be WABO certified for the type of inspection they are to perform. If inspection is for work that is not covered by the WABO categories, a detailed resume of the inspector and firm must be submitted. The resume must show the inspector and firm are qualified to perform the work and testing required by the project design and specifications.

**A PRE-CONSTRUCTION MEETING IS REQUIRED. The City Building Inspector must be contacted in advance of any work noted below. It is the responsibility of the owner or owner's designee to notify the Special Inspection Agency AND schedule a building inspection in a timely manner. Copies of all inspection reports must be posted on site and summary letters submitted to development service department and the registered design professional. Unresolved non-conformances must be brought to the immediate attention of the City Building Inspector. Send summary letters and nonconformance reports to the Development Services Department.**

The work shall be inspected for conformance with the plans and specifications approved by the City. Revisions and addenda sheets will not be used for inspection unless they have been approved by the City. The special inspector shall report to the City and design professional any work that is not consistent with approved documents.

A daily record will be maintained on site itemizing the inspections performed, for the review of all parties. Any nonconforming items shall be brought to the immediate attention of the contractor for resolution. Reports shall be submitted to the City; detailing the inspections and testing performed, listing any nonconforming items and resolution of nonconforming items.

A final report shall be submitted to the building department prior to the Certificate of Occupancy being issued. This report will indicate that inspection and testing was completed in conformance with the approved plans, specifications and approved revisions or addenda. Any unresolved discrepancies must be detailed in the final report.

The special inspector and special inspection firm serve in the role as "deputy" City of Lakewood inspectors and as such are responsible to the City of Lakewood Building Department in the performance of the required work.

**Contractor:**

The contractor shall provide the special inspector or agency adequate notification of work requiring inspection.

The city approved plans and specifications must be made available, at the job site for the use of the special inspector and the City inspector. The contractor shall maintain all daily inspection reports, on site, for review.

The special inspection functions are considered to be in addition to the normal inspections performed by the City and the contractor is responsible for contracting the City to schedule regular inspections. No concrete shall be poured or other work covered until approval is given by the City inspector.

**Building Department:**

The building department shall review any revisions and addenda. Approved copies will be given to the contractor to maintain as part of the approved plan set.

The City inspector will monitor the special inspection functions for compliance with the agreement and the approved plans.

The City inspector shall be responsible for approving various stages of construction to be covered and work to proceed.

**Design Professionals:**

The architect and engineer will clearly indicate on the plans and specifications for the specific types of special inspection required, and shall include a schedule for inspection and testing. The architect and engineer will coordinate their revision and addenda process in such a way as to ensure all required City approvals are obtained, prior to work shown on the revisions being performed.

**Owner:**

The project owner, or the architect or engineer acting as the owners agent, shall employ the special inspector or agency.

**ENFORCEMENT**

A failure of the special inspector or firm to perform in keeping the requirements of the IBC, the approved plans and this document may void this agreement and the Building Officials approval of the special inspector. In such a case a new special inspector and/or firm would need to be proposed for approval. A failure of the design and/or construction parties to perform in accordance with this agreement may result in a STOP WORK notice being posted on the project, until nonconforming items have been resolved.

ACKNOWLEDGEMENTS

I have read and agree to comply with the terms and conditions of this agreement.

Owner: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor: \_\_\_\_\_ Date: \_\_\_\_\_

Architect: \_\_\_\_\_ Date: \_\_\_\_\_

Engineer: \_\_\_\_\_ Date: \_\_\_\_\_

Special inspector/Agency: \_\_\_\_\_ Date: \_\_\_\_\_

## 2021 IBC Chapter 17 Special Inspections & Tests

### SECTION 1701 General

#### 1701.1 Scope.

The provisions of this chapter shall govern the quality, workmanship and requirements for materials covered. Materials of construction and tests shall conform to the applicable standards listed in this code.

### SECTION 1702 NEW MATERIALS

#### 1702.1 General.

**New building materials, equipment, appliances, systems or methods of construction not provided for in this code, and any material of questioned suitability proposed for use in the construction of a building or structure, shall be subjected to the tests prescribed in this chapter and in the approved rules to determine character, quality and limitations of use.**

### SECTION 1703 APPROVALS

#### 1703.1 Approved Agency

An approved agency shall provide all information as necessary for the building official to determine that the agency meets the applicable requirements specified in Sections 1703.1.1 through 1703.1.3.

##### 1703.1.1 Independence

An approved agency shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose to the building official and the registered design professional possible conflicts of interest so that objectivity can be confirmed.

##### 1703.1.2 Equipment

An approved agency shall have adequate equipment to perform required tests. The equipment shall be periodically calibrated.

##### 1703.1.3 Personnel

An approved agency shall employ experienced personnel educated in conducting, supervising and evaluating tests and special inspections.

### **1703.2 Written Approval**

Any material, appliance, equipment, system or method of construction meeting the requirements of this code shall be approved in writing after satisfactory completion of the required tests and submission of required test reports.

### **1703.3 Record of Approval**

For any material, appliance, equipment, system or method of construction that has been approved, a record of such approval, including the conditions and limitations of the approval, shall be kept on file in the building official's office and shall be available for public review at appropriate times.

### **1703.4 Performance**

Specific information consisting of test reports conducted by an approved agency in accordance with the appropriate referenced standards, or other such information as necessary, shall be provided for the building official to determine that the product, material or assembly meets the applicable code requirements.

#### **1703.4.1 Research and Investigation**

Sufficient technical data shall be submitted to the building official to substantiate the proposed use of any product, material or assembly. If it is determined that the evidence submitted is satisfactory proof of performance for the use intended, the building official shall approve the use of the product, material or assembly subject to the requirements of this code. The costs, reports and investigations required under these provisions shall be paid by the owner or the owner's authorized agent.

#### **1703.4.2 Research Reports**

Supporting data, where necessary to assist in the approval of products, materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.

### **1703.5 Labeling**

Products, materials or assemblies required to be labeled shall be labeled in accordance with the procedures set forth in Sections 1703.5.1 through 1703.5.4.

#### **1703.5.1 Testing**

An approved agency shall test a representative sample of the product, material or assembly being labeled to the relevant standard or standards. The approved agency shall maintain a record of the tests performed. The record shall provide sufficient detail to verify compliance with the test standard.

#### **1703.5.2 Inspection and Identification**



The approved agency shall periodically perform an inspection, which shall be in-plant if necessary, of the product or material that is to be labeled. The inspection shall verify that the labeled product, material or assembly is representative of the product, material or assembly tested.

#### **1703.5.3 Label Information**

The label shall contain the manufacturer's identification, model number, serial number or definitive information describing the performance characteristics of the product, material or assembly and the approved agency's identification.

#### **1703.5.4 Method of Labeling**

Information required to be permanently identified on the product, material or assembly shall be acid etched, sand blasted, ceramic fired, laser etched, embossed or of a type that, once applied, cannot be removed without being destroyed.

#### **1703.6 Evaluation and Follow-up Inspection Services**

Where structural components or other items regulated by this code are not visible for inspection after completion of a prefabricated assembly, the owner or the owner's authorized agent shall submit a report of each prefabricated assembly. The report shall indicate the complete details of the assembly, including a description of the assembly and its components, the basis upon which the assembly is being evaluated, test results and similar information and other data as necessary for the building official to determine conformance to this code. Such a report shall be approved by the building official.

##### **1703.6.1 Follow-up Inspection**

The owner or the owner's authorized agent shall provide for special inspections of fabricated items in accordance with Section 1704.2.5.

##### **1703.6.2 Test and Inspection Records**

Copies of necessary test and special inspection records shall be filed with the building official.

### **SECTION 1704 SPECIAL INSPECTIONS AND TESTS, CONTRACTOR RESPONSIBILITY AND STRUCTURAL OBSERVATIONS**

#### **1704.1 General**

Special inspections and tests, statements of special inspections, responsibilities of contractors, submittals to the building official, and structural observations shall meet the applicable requirements of this section.

#### **1704.2 Special Inspections and Tests**

Where application is made to the building official for construction as specified in

Section 105, the owner or the owner's authorized agent, other than the contractor, shall employ one or more approved agencies to provide special inspections and tests during construction on the types of work specified in Section 1705 and identify the approved agencies to the building official. These special inspections and tests are in addition to the inspections by the building official that are identified in Section 110.

**Exceptions:**

1. Special inspections and tests are not required for construction of a minor nature or as warranted by conditions in the jurisdiction as approved by the building official.
2. Unless otherwise required by the building official, special inspections and tests are not required for Group U occupancies that are accessory to a residential occupancy including, but not limited to, those listed in Section 312.1.
3. Special inspections and tests are not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of Section 2211.1.2 or the conventional light-frame construction provisions of Section 2308.
4. The contractor is permitted to employ the approved agencies where the contractor is also the owner.

**1704.2.1 Special Inspector Qualifications**

Prior to the start of the construction, the approved agencies shall provide written documentation to the building official demonstrating the competence and relevant experience or training of the special inspectors who will perform the special inspections and tests during construction. Experience or training shall be considered relevant where the documented experience or training is related in complexity to the same type of special inspection or testing activities for projects of similar complexity and material qualities. These qualifications are in addition to qualifications specified in other sections of this code.

The registered design professional in responsible charge and engineers of record involved in the design of the project are permitted to act as the approved agency and their personnel are permitted to act as special inspectors for the work designed by them, provided they qualify as special inspectors.

**1704.2.2 Access for Special Inspection**

The construction or work for which special inspection or testing is required shall remain accessible and exposed for special inspection or testing purposes until

completion of the required special inspections or tests.

### **1704.2.3 Statement of Special Inspections**

The applicant shall submit a statement of special inspections in accordance with Section 107.1 as a condition for permit issuance. This statement shall be in accordance with Section 1704.3.1

#### **Exception:**

1. A statement of special inspections is not required for portions of structures designed and constructed in accordance with the cold-formed steel light-frame construction provisions of Section 2211.1.2 or the conventional light-frame construction provisions of section 2308.

### **Section 1704.2.4 Report Requirement**

Approved agencies shall keep records of special inspections and tests. The approved agency shall submit reports of special inspections and tests to the building official and to the registered design professional in responsible charge. Reports shall indicate that work inspected or tested was or was not completed in conformance to approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the building official and to the registered design professional in responsible charge prior to the completion of that phase of the work. A final report documenting required special inspections and tests, and correction of any discrepancies noted in the inspections or tests, shall be submitted at a point in time agreed upon prior to the start of work by the owner or the owner's authorized agent to the building official.

### **1704.2.5 Special Inspection of Fabricated Items**

Where fabrication of structural, load-bearing or lateral load-resisting members or assemblies is being conducted on the premises of a fabricator's shop, special inspections of the fabricated items shall be performed during fabrication.

#### **Exceptions:**

1. Special inspections during fabrication are not required where the fabricator maintains approved detailed fabrication and quality control procedures that provide a basis for control of the workmanship and the fabricator's ability to conform to approved construction documents and this code. Approval shall be based upon review of fabrication and quality control procedures

and periodic inspection of fabrication practices by the building official.

2. Special inspections are not required where the fabricator is registered and approved in accordance with Section 1704.2.5.1.

#### **1704.2.5.1 Fabricator approval**

Special inspections during fabrication are not required where the work is done on the premises of a fabricator registered and approved to perform such work without special inspection. Approval shall be based upon review of the fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an approved agency. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the owner or the owner's authorized agent for submittal to the building official as specified in Section 1704.5 stating that the work was performed in accordance with the approved construction documents.

#### **1704.3 Statement of Special Inspections**

Where special inspections or tests are required by Section 1705, the registered design professional in responsible charge shall prepare a statement of special inspections in accordance with

Section 1704.3.1 for submittal by the applicant in accordance with Section 1704.2.3.

Exception:

1. The statement of special inspections is permitted to be prepared by a qualified person approved by the building official for construction not designed by a registered design professional.

#### **1704.3.1 Content of Statement of Special Inspections**

The statement of special inspections shall identify the following:

1. The materials, systems, components and work required to have special inspections or tests by the building official or by the registered design professional responsible for each portion of the work.
2. The type and extent of each special inspection.
3. The type and extent of each test.
4. Additional requirements for special inspections or tests for seismic or wind resistance as specified in Sections 1705.11, 1705.12 and 1705.13.
5. For each type of special inspection, identification as to whether it will be continuous special inspection, periodic special inspection or performed in accordance with the notation used in the referenced standard where the inspections are defined.

#### **1704.3.2 Seismic Requirements in the Statement of Special Inspections**

Where Section 1705.12 or 1705.13 specifies special inspections or tests for

seismic resistance, the statement of special inspections shall identify the designated seismic systems and seismic force-resisting systems that are subject to the special inspections or tests.

#### **1704.3.3 Wind Requirements in the Statement of Special Inspections**

Where Section 1705.11 specifies special inspection for wind resistance, the statement of special inspections shall identify the main wind force-resisting systems and wind-resisting components that are subject to special inspections.

#### **1704.4 Contractor Responsibility**

Each contractor responsible for the construction of a main wind- or seismic force-resisting system, designated seismic system or a wind- or seismic force-resisting component listed in the statement of special inspections shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgment of awareness of the special requirements contained in the statement of special inspections.

#### **1704.5 Submittals to the Building Official**

In addition to the submittal of reports of special inspections and tests in accordance with Section 1704.2.4, reports and certificates shall be submitted by the owner or the owner's authorized agent to the building official for each of the following:

1. Certificates of compliance for the fabrication of structural, load-bearing or lateral load-resisting members or assemblies on the premises of a registered and approved fabricator in accordance with Section 1704.2.5.1.
2. Certificates of compliance for the seismic qualification of nonstructural components, supports and attachments in accordance with Section 1705.13.2.
3. Certificates of compliance for designated seismic systems in accordance with Section 1705.13.3.
4. Reports of preconstruction tests for shotcrete in accordance with Section 1908.5.
5. Certificates of compliance for open web steel joists and joist girders in accordance with Section 2207.5.
6. Reports of material properties verifying compliance with the requirements of AWS D1.4 for weldability as specified in Section 26.5.4 of ACI 318 for reinforcing bars in concrete complying with a standard other than ASTM A

706 that are to be welded; and

7. Reports of mill tests in accordance with Section 20.2.2.5 of ACI 318 for reinforcing bars complying with ASTM A 615 and used to resist earthquake-induced flexural or axial forces in the special moment frames, special structural walls or coupling beams connecting special structural walls of seismic force-resisting systems in structures assigned to Seismic Design Category B, C, D, E or F.

#### **1704.6 Structural Observations**

Where required by the provisions of Section 1704.6.1, the owner shall employ a registered design professional to perform structural observations. The structural observer shall visually observe representative locations of structural systems, details, and load path for general conformance to the approved construction documents. Structural observation does not include or waive the responsibility for the inspections in Section 110 or the special inspections in Section 1705 or other sections of this code.

Prior to the commencement of observations, the structural observer shall submit to the building official a written statement identifying the frequency and extent of structural observations.

At the conclusion of the work included in the permit, the structural observer shall submit to the building official a written statement that the site visits have been made and identify any reported deficiencies that, to the best of the structural observer's knowledge, have not been resolved.

##### **1704.6.1 Structural Observations for Seismic Resistance**

Structural observations shall be provided for those structures assigned to where one or more of the following conditions exist:

1. The structure is classified as Risk Category III or IV.
2. The structure is a high-rise building.
3. The structure is assigned to Seismic Design Category E, and is greater than two stories above grade plane.
4. Such observation is required by the registered design professional responsible for the structural design.
5. When such observation is specifically required by the building official.

## **SECTION 1705 REQUIRED SPECIAL INSPECTIONS AND TESTS**

### **1705.1 General**

Special inspections and tests of elements and nonstructural components of buildings and structures shall meet the applicable requirements of this section.

#### **1705.1.1 Special Cases**

Special inspections and tests shall be required for proposed work that is, in the opinion of the building official, unusual in its nature, such as, but not limited to, the following examples:

1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.
2. Unusual design applications of materials described in this code.
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.