



**BUILDING CODE MANUAL
COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY DIVISION
Based on the 2011 LACBC**

**#141
1704
Article 3
1-11-13
Page 1 of 4**

SPECIAL INSPECTION – SEISMIC RESISTANCE OF STRUCTURAL WOOD

Sections 1704 and 1707 require that certain elements of wood systems of the seismic-force-resistance system must have Special Inspection as follows:

1707.3 Structural wood. Continuous special inspection is required during field gluing operations of elements of the seismic-force-resisting system. Periodic special inspection is required for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.

Exception: *Special inspection* is not required for wood shearwalls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other components of the seismic-force-resisting system, where the fastener spacing of the sheathing is more than 4 inches (102 mm) on center (o.c.).

Currently there are no certifications for Wood Special Inspection. Until certifications for that discipline are developed, and a viable roster established, Los Angeles County has instituted an interim policy.

Special Inspections will not be required per Section 1704.1 for projects exempted from Structural Observation under Condition 3 of Section 1710.2.

Special Inspection is in addition to regular inspection and structural observation as noted in Section 108 and Section 1710, respectively.

Components of the seismic-force-resistance system that must be inspected by the Special Inspector shall be noted on the Special Inspection Report form (see attached form). The Special Inspection Report form must be completed and signed by 1) the Registered Design Professional in Responsible Charge or 2) a Deputy Inspector registered in Wood Construction (WD) by City of Los Angeles Department of Building and Safety or 3) a qualified individual as determined by Research Section. The Registered Design Professional may assign a designee to perform the needed Special Inspection.

The Special Inspection Report form will certify that the guidelines and standards, as applicable to those elements and project, have been complied with, or such deficiencies noted in the report. Deficiencies in the construction must be brought to the attention of the *Registered Design Professional* and the Building Official.

Potential components of seismic-force-resisting-system are listed below:

- **Size and location of shear walls and diaphragms (height/length/width)**
- **Grade and thickness of structural panels**
- **Bolts and washers - number and size – hole size – tightening**
- **Use of approved nails for shear walls and diaphragms**
- **Connectors – number, type, size and location**
- **Fastener lines – number of lines, spacing and edge distance**
- **Fasteners do not break skin of structural panels**
- **Size and location of drag struts**
- **Size of framing members**
- **Fasteners - penetration and location on framing members**
- **Connections to roof/floor diaphragm**
- **Connections to sill plate**
- **Diameter and length of nails/fasteners**
- **Anchor bolts – size and spacing**
- **Nailing schedule**

New BCM



LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY DIVISION

SPECIAL INSPECTOR REPORT
SEISMIC RESISTANCE – STRUCTURAL WOOD

PROGRESS REPORT

FINAL REPORT

BUILDING PERMIT NO. _____ DISTRICT OFFICE _____

JOB ADDRESS _____ CITY _____

OWNER _____ GENERAL CONTRACTOR _____

This report includes all construction work related to the wood seismic force resisting systems in the structure. Special inspection is required for nailing, bolting, anchoring and other fastening of the components to insure, by inspection, that they conform to the Codes, plans, and Standards. Indicate in the spaces below which components are covered in this report, including location, if necessary:

| | |
|------------------|-----------------|
| Wood Shear Walls | Wood Diaphragms |
| Drag Struts | Connectors |
| Hold Downs | Straps |
| Anchor Bolts | Other |

I have inspected the specific components of the wood seismic force resisting system shown above, and all work complies with the approved plans and requirements of the Los Angeles County Building Code, unless noted below:

REMARKS _____

Inspector _____

Date _____

Print Name _____

Daytime / Cell Phone Number _____

I DECLARE THAT THE FOLLOWING STATEMENT(S) ARE TRUE TO THE BEST OF MY KNOWLEDGE:

- I AM THE ENGINEER OR ARCHITECT OF RECORD FOR THE DESIGN OF THE ABOVE STRUCTURE, AND I OR MY DESIGNEE INDICATED ABOVE HAVE PERFORMED THE WOOD SPECIAL INSPECTION REQUIRED IN ACCORDANCE WITH SECTIONS 1704.6 AND 1707 OF THE LOS ANGELES COUNTY BUILDING CODE.
- I AM AN AUTHORIZED SIGNATORY FOR (firm name) _____, AN ACCREDITED AGENCY, AND THAT I OR MY DESIGNEE INDICATED ABOVE HAVE PERFORMED THE WOOD SPECIAL INSPECTION REQUIRED IN ACCORDANCE WITH SECTIONS 1704.6 AND 1707 OF THE LOS ANGELES COUNTY BUILDING CODE.

Signature _____

Date _____

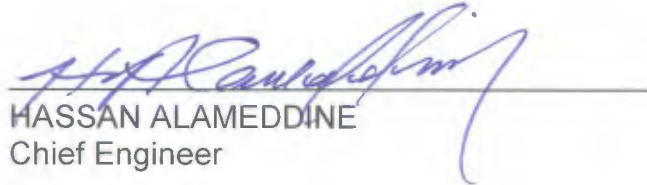
Print Name _____

License or Firm I.D. Number _____

WRITTEN BY: STEVE LAM
Senior Civil Engineer

REVIEWED BY: JUAN MADRIGAL
Senior Civil Engineer

APPROVED BY:



HASSAN ALAMEDDINE
Chief Engineer