

Supplemental Plan Check Correction Sheet Mass Timber and Heavy Timber			
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City of Los Angeles – Department of Building & Safety
Supplemental Plan Check Correction Sheet
Mass Timber and Heavy Timber (2026 LABC)

Plan Check No.:	
PCIS No.:	
Job Address:	
P.C. Engineer:	Email:
Phone:	Review Date:

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If you have any questions or need clarification on any plan check matters, please contact your plan check engineer and/or his or her supervisor.

I. Information Bulletins

Review the following checked information bulletins. Revise plans to show compliance with documents below.
Copies can be obtained at: <https://dbs.lacity.gov/forms-and-publications>

☐ P/BC 2026-024 Structural Observation

II. PART I: BUILDING CODE REQUIREMENTS

A. BUILDING LIMITATION

1. Required separations shall be fire barriers constructed in accordance with CBC Section 707 or horizontal assemblies constructed in accordance with CBC Section 711, or both, so as to completely separate adjacent occupancies. Mass timber elements serving as fire barriers or horizontal assemblies to separate occupancies in Type IV-B or IV-C construction shall be separated from the interior of the building with an approved thermal barrier consisting of a minimum of 1/2-inch gypsum board or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275. *CBC 508.4.4.1*
Exception: A thermal barrier shall not be required on top of horizontal assemblies serving as occupancy separations.
2. Where CBC Table 509 specifies a fire-resistance-rated separation, mass timber elements serving as fire barriers or a horizontal assembly in Type IV-B or IV-C construction shall be separated from the interior of the incidental use with an approved thermal barrier consisting of a minimum of ½ inch gypsum board or a material that is tested in accordance with and meets the acceptance criteria of both the Temperature Transmission Fire Test and the Integrity Fire Test of NFPA 275. *CBC 509.4.1.1*
Exception: A thermal barrier shall not be required on top of horizontal assemblies serving as incidental use separations.

3. Mass timber elements shall meet the fire resistance rating requirements of this section based on either the fire resistance rating of the noncombustible protection, the mass timber, or a combination of both and shall be determined in accordance with CBC Section 703.2 or 703.3.
 - a. The minimum dimensions and permitted materials for building elements shall comply with the provisions of this section and CBC Section 2304.11.
 - b. Cross-laminated timber shall be labeled as conforming to PRG 320-18 as referenced in CBC Section 2303.1.4
 - c. Mass timber elements of Types IV-A, IV-B and IV-C construction shall be protected with noncombustible protection applied directly to the mass timber in accordance with CBC Sections 602.4.1 through 602.4.3.
 - d. The time assigned to the noncombustible protection shall be determined in accordance with CBC Section 703.6 and comply with CBC Section 722.7.
 - e. Exterior load-bearing walls and non-load-bearing walls shall be mass timber construction, or shall be of noncombustible construction.
 - f. Combustible concealed spaces are not permitted except as otherwise indicated in CBC Sections 602.4.1.5, 602.4.3.5, and 602.4.4.3.
 - g. Combustible stud spaces within light frame walls of Type IV-HT construction shall not be considered concealed spaces, but shall comply with CBC Section 718.
 - h. In buildings of Type IV-A, B, and C, construction with an occupied floor located more than 75 feet above the lowest level of building access, up to and including 12 stories or 180 feet above grade plane, mass timber interior exit and elevator hoist-way enclosures shall be protected in accordance with CBC Section 602.4.1.2.
 - i. In buildings, greater than 12 stories or 180 feet above grade plane, interior exit and elevator hoist-way enclosures shall be constructed of non-combustible materials.

CBC 602.4

4. Building elements in Type IV-A construction shall be protected in accordance with CBC Sections 602.4.1.1 through 602.4.1.6. The required fire resistance rating of noncombustible elements and protected mass timber elements shall be determined in accordance with CBC Section 703.2 or 703.3.

CBC 602.4.1

 - a. The outside face of exterior walls of mass timber construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes, as specified in CBC Table 722.7.1(1). Components of the exterior wall covering shall be of noncombustible material except water-resistive barriers having a peak heat release rate of less than 150 kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18 MJ/kg as determined in accordance with ASTM E1354 and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E84 or UL 723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m²

CBC 602.4.1.1
 - b. Interior faces of all mass timber elements, including the inside faces of exterior mass timber walls and mass timber roofs, shall be protected with materials complying with CBC Section 703.3.

CBC 602.4.1.2
 - c. Noncombustible protection shall contribute a time equal to or greater than times assigned in CBC Table 722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions listed in CBC Table 722.7.1(2) shall be permitted to be used for compliance with CBC Section 722.7.1.

CBC 602.4.1.2.1
 - d. The floor assemblies shall contain a noncombustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with CBC Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with CBC 602.4.1.2.

CBC 602.4.1.3

- e. The interior surfaces of roof assemblies shall be protected in accordance with CBC Section 602.4.1.2. Roof coverings in accordance with CBC Chapter 15 shall be permitted on the outside surface of the roof assembly. *CBC 602.4.1.4*
 - f. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of CBC Section 718. Combustible construction forming concealed spaces shall be protected in accordance with CBC Section 602.4.1.2. *CBC 602.4.1.5*
 - g. Shafts shall be permitted in accordance with CBC Sections 713 and 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with CBC Section 602.4.1.2. *CBC 602.4.1.6*
5. Building elements in Type IV-B construction shall be protected in accordance with CBC Sections 602.4.2.1 through 602.4.2.6. The required fire resistance rating of noncombustible elements or mass timber elements shall be determined in accordance with CBC Section 703.2 or 703.3. *CBC 602.4.2*
- a. The outside face of exterior walls of mass timber construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes, as specified in CBC Table 722.7.1(1). Components of the exterior wall covering shall be of noncombustible material except water-resistive barriers having a peak heat release rate of less than 150 kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18 MJ/kg as determined in accordance with ASTM E1354, and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E84 or UL 723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m². *CBC 602.4.2.1*
 - b. Interior faces of all mass timber elements, including the inside face of exterior mass timber walls and mass timber roofs, shall be protected, as required by this section, with materials complying with CBC Section 707.3. *CBC 602.4.2.2*
 - c. Noncombustible protection shall contribute a time equal to or greater than times assigned in CBC Table 722.7.1(1), but not less than 80 minutes. The use of materials and their respective protection contributions specified in CBC Table 722.7.1(2) shall be permitted to be used for compliance with CBC Section 722.7.1. *CBC 602.4.2.2.1*
 - d. Interior faces of mass timber elements, including the inside face of exterior mass timber walls and mass timber roofs, shall be protected in accordance with CBC Section 602.4.2.2.1 with exceptions. *CBC 602.4.2.2.2*
 - e. In each dwelling unit of mixed unprotected area or fire area, where both portions of ceilings and portions of walls are unprotected, the total allowable unprotected area shall be determined in accordance with Equation 6-1:

$$(U_{tc}/U_{ac}) + (U_{tw}/U_{aw}) \leq 1 \quad \text{(Equation 6-1)}$$
 where:
 U_{tc} = Total unprotected mass timber ceiling areas.
 U_{ac} = Allowable unprotected mass timber ceiling area conforming to Exception 1.1 of CBC Section 602.4.2.2.2
 U_{tw} = Total unprotected mass timber wall areas.
 U_{aw} = Allowable unprotected mass timber wall area conforming to Exception 1.2 of CBC Section 602.4.2.2.2. *CBC 602.4.2.2.3*
 - f. In each dwelling unit or fire area, unprotected portions of mass timber walls and ceilings shall be not less than 15 feet from unprotected portions of other walls and ceilings, measured horizontally along the ceiling and from other unprotected portions of walls measured horizontally along the floor. *CBC 602.4.2.2.4*

- g. The floor assembly shall contain a noncombustible material not less than one inch in thickness above the mass timber. Floor finishes in accordance with CBC Section 804 shall be permitted on top of the noncombustible material. The underside of floor assemblies shall be protected in accordance with CBC Section 602.4.1.2 except where unprotected mass timber ceilings are permitted in CBC Section 602.4.2.2.2. *CBC 602.4.2.3*
 - h. The interior surfaces of roof assemblies shall be protected in accordance with CBC Section 602.4.2.2 except, in non-occupiable spaces, they shall be treated as a concealed space with no portion left unprotected. Roof coverings in accordance with CBC Chapter 15 shall be permitted on the outside surface of the roof assembly. *CBC 602.4.2.4*
 - i. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of CBC Section 718. Combustible construction forming concealed spaces shall be protected in accordance with CBC Section 602.4.1.2. *CBC 602.4.2.5*
 - j. Shafts shall be permitted in accordance with CBC Sections 713 and 718. Both the shaft side and room side of mass timber elements shall be protected in accordance with CBC Section 602.4.1.2. *CBC 602.4.2.6*
- 6. Building elements in Type IV-C construction shall be protected in accordance with CBC Sections 602.4.3.1 through 602.4.3.6. The required fire resistance rating of building elements shall be determined in accordance with CBC Sections 703.2 or 703.3. *CBC 602.4.3*
 - a. The exterior side of walls of combustible construction shall be protected with noncombustible protection with a minimum assigned time of 40 minutes, as determined in CBC Table 722.7.1(1). Components of the exterior wall covering shall be of noncombustible material except water-resistive barriers having a peak heat release rate of less than 150 kW/m², a total heat release of less than 20 MJ/m² and an effective heat of combustion of less than 18 MJ/kg as determined in accordance with ASTM E1354 and having a flame spread index of 25 or less and a smoke-developed index of 450 or less as determined in accordance with ASTM E84 or UL 723. The ASTM E1354 test shall be conducted on specimens at the thickness intended for use, in the horizontal orientation and at an incident radiant heat flux of 50 kW/m². *CBC 602.4.3.1*
 - b. Mass timber elements are permitted to be unprotected. *CBC 602.4.3.2*
 - c. Floor finishes in accordance with CBC Section 804 shall be permitted on top of the floor construction. *CBC 602.4.3.3*
 - d. Roof coverings in accordance with Chapter 15 shall be permitted on the outside surface of the roof assembly. *CBC 602.4.3.4*
 - e. Concealed spaces shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code, and shall comply with all applicable provisions of CBC Section 718. Combustible construction forming concealed spaces shall be protected with noncombustible protection with a minimum assigned time of 40 minutes, as specified in CBC Table 722.7.1(1). *CBC 602.4.3.5*

- f. Shafts shall be permitted in accordance with CBC Sections 713 and 718. Shafts and elevator hoistway and interior exit stairway enclosures shall be protected with noncombustible protection with a minimum assigned time of 40 minutes, as specified in CBC Table 722.7.1(1), on both the inside of the shaft and the outside of the shaft.
CBC 602.4.3.6
7. Type IV construction (Heavy Timber, HT) is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of solid wood, laminated heavy timber or structural composite lumber (SCL), without concealed spaces or with concealed spaces complying with CBC Section 602.4.4.3. The minimum dimensions for permitted materials including solid timber, glued-laminated timber, structural composite lumber (SCL) and cross laminated timber (CLT) and details of Type IV construction shall comply with the provisions of this section and CBC Section 2304.11. Exterior walls complying with CBC Section 602.4.4.1 or 602.4.4.2 shall be permitted. Interior walls and partitions not less than one-hour fire resistance rating or heavy timber conforming with CBC Section 2304.11.2.2 shall be permitted. *CBC 602.4.4*
- a. Fire-retardant-treated wood framing and sheathing complying with CBC Section 2303.2 shall be permitted within exterior wall assemblies with a 2-hour rating or less.
CBC 602.4.4.1
- b. Cross-laminated timber not less than 4 inches in thickness complying with CBC Section 2303.1.4 shall be permitted within exterior wall assemblies with a 2-hour rating. Heavy timber structural members appurtenant to the CLT exterior wall shall meet the requirements of Table 2304.11 and be a fire-resistance rated as required for the exterior wall. The exterior surface of the cross-laminated timber and heavy timber elements shall be is protected by one the following:
- i. Fire-retardant-treated wood sheathing complying with CBC Section 2303 and not less than 15/32 inch thick;
 - ii. Gypsum board not less than 1/2 inch thick; or
 - iii. A noncombustible material.
CBC 602.4.4.2
- c. Concealed spaces shall not contain combustible materials other than building elements and electrical, mechanical, or plumbing materials and equipment permitted in plenums in accordance with Section 602 of the California Mechanical Code. Concealed spaces shall comply with applicable provisions of CBC Section 718. Concealed Spaces shall be protected in accordance with one or more of the following:
- i. The building shall be sprinklered throughout in accordance with CBC Section 903.3.1.1 and automatic sprinklers shall also be provided in the concealed space.
 - ii. The concealed space shall be completely filled with noncombustible insulation.
 - iii. Surfaces within the concealed space shall be fully sheathed with not less than 5/8-inch Type X gypsum board.
Exception: Concealed spaces within interior walls and partitions with a one hour or greater fire resistance rating complying with CBC Section 2304.11.2.2, shall not require additional protection. *CBC 602.4.4.3*
8. Where a horizontal separation of 20 feet or more is provided, wood columns and arches conforming to heavy timber sizes complying with CBC Section 2304.11 shall be permitted to be used externally. *CBC 602.4.4.4*

9. In determining of noncombustible protection time contribution, the time, in minutes, contributed to the fire resistance rating by the noncombustible protection of mass timber building elements, components, or assemblies, shall be established through a comparison of assemblies tested using procedures set forth in ASTM E119 or UL 263. The test assemblies shall be identical in construction, loading, and materials, other than the noncombustible protection. The two test assemblies shall be tested to the same criteria of structural failure.
 - a. Test Assembly 1 shall be without protection.
 - b. Test Assembly 2 shall include the representative noncombustible protection. The protection shall be fully defined in terms of configuration details, attachment details, joint sealing details, accessories and all other relevant details.
 - c. The noncombustible protection time contribution shall be determined by subtracting the fire resistance time, in minutes, of Test Assembly 1 from the fire resistance time, in minutes, of Test Assembly 2. *CBC 703.6*
10. In buildings of Type IV-A, IV-B, and IV-C construction, sealant or adhesive shall be provided to resist the passage of air in the following locations:
 - a. At abutting edges and intersections of mass timber building elements required to be fire resistance-rated
 - b. At abutting intersections of mass timber building elements and building elements of other materials where both are required to be fire resistance-rated.
Sealants shall meet the requirements of ASTM C920. Adhesives shall meet the requirements of ASTM D3498.

Exception: Sealants or adhesives need not be provided where they are not a required component of a tested fire resistance-rated assembly. *CBC 703.7*
11. Provide installation of fire blocking in combustible construction to cut off concealed draft openings (both vertical and horizontal) and to form an effective barrier between floors, between a top story and a roof or attic space. Fire blocking shall be installed in the locations specified in CBC Sections 718.2.2 through 718.2.7. *CBC 718.2*
12. Fire blocking shall consist of the following materials: *CBC 718.2.1*
 - a. Two-inch nominal lumber.
 - b. Two thicknesses of 1-inch nominal lumber with broken lap joints.
 - c. One thickness of 0.719-inch wood structural panels with joints backed by 0.719-inch wood structural panels.
 - d. One thickness of 0.75-inch particleboard with joints backed by 0.75-inch particleboard.
 - e. One-half-inch gypsum board.
 - f. One-fourth-inch cement-based millboard.
 - g. Batts or blankets of mineral wool, mineral fiber or other approved materials installed in such a manner as to be securely retained in place.
 - h. Cellulose insulation installed as tested for the specific application.
 - i. Mass timber complying with CBC Section 2304.11.
 - j. One thickness of 19/32 inch fire-retardant treated wood structural panel complying with CBC 2303.2.
13. The required fire resistance of mass timber elements in CBC Section 602.4 shall be determined in accordance with CBC Section 703.2 or 703.3. The fire resistance rating of building elements shall be as required in CBC Tables 601 and 705.5 and as specified elsewhere in this code. The fire resistance rating of the mass timber elements shall consist of the fire resistance of the unprotected element added to the protection time of the noncombustible protection. *CBC 722.7*
14. Provide minimum protection from noncombustible covering material based on the required fire-resistance rating per CBC Table 722.7.1(1). *CBC 722.7.1(1)*
15. Provide noncombustible covering material per CBC Table 722.7.1(2). *CBC 722.7.1(2)*
16. Gypsum board complying with CBC Table 722.7.1(2) shall be installed in accordance with this section. *CBC 722.7.2*

17. Layers of Type X gypsum board serving as noncombustible protection **for interior surfaces of wall and ceiling assemblies** determined in accordance with CBC Table 722.7.1(1) shall be installed in accordance with the following:
 - a. Each layer shall be attached with Type S drywall screws of sufficient length to penetrate the mass timber at least 1 inch when driven flush with the paper surface of the gypsum board.
Exception: The third layer, where determined necessary by CBC Section 722.7, shall be permitted to be attached with 1 inch #6 Type S drywall screws to furring channels in accordance with AISI S220.
 - b. Screws for attaching the base layer shall be 12 inches on center in both directions.
 - c. Screws for each layer after the base layer shall be 12 inches on center in both directions and offset from the screws of the previous layers by 4 inches in both directions.
 - d. All panel edges of any layer shall be offset 18 inches from those of the previous layer.
 - e. All panel edges shall be attached with screws sized and offset as in items 1 through 4 above and placed at least 1 inch but not more than 2 inches from the panel edge.
 - f. All panels installed at wall-to-ceiling intersections shall be installed such that ceiling panels are installed first and the wall panels are installed after the ceiling panel has been installed and is fitted tight to the ceiling panel. Where multiple layers are required, each layer shall repeat this process.
 - g. All panels installed at a wall-to-wall intersection shall be installed such that the panels covering an exterior wall or a wall with a greater fire resistance rating shall be installed first and the panels covering the other wall shall be fitted tight to the panel covering the first wall. Where multiple layers are required, each layer shall repeat this process.
 - h. Panel edges of the face layer shall be taped and finished with joint compound. Fastener heads shall be covered with joint compound.
 - i. Panel edges protecting mass timber elements adjacent to unprotected mass timber elements in accordance with CBC Section 602.4.2.2 shall be covered with 1 1/4-inch metal corner bead and finished with joint compound. *CBC 722.7.2.1*
 18. Layers of Type X gypsum board serving as noncombustible protection for the outside of the exterior heavy timber walls determined in accordance with CBC Table 722.7.1(1) shall be fastened 12 inches on center each way and 6 inches on center at all joints or ends. All panel edges shall be attached with fasteners located at least 1 inch but not more than 2 inches from the panel edge. Fasteners shall comply with one of the following:
 - a. Galvanized nails of minimum 12 Gage with a 7/16-inch head of sufficient length to penetrate the mass timber a minimum of 1 inch.
 - b. Screws which comply with ASTM C1002 (Type S, Type W, or Type G) of sufficient length to penetrate the mass timber a minimum of 1 inch. *CBC 722.7.2.2*
- B. STRUCTURAL**
1. Cross laminated timber (CLT) shear walls utilized as the SFRS shall be limited to a structural height, h_n , of 65 ft per ASCE 7-22 Table 12.2-1. *ASCE 7-22 Table 12.2-1*
 2. Provide an evaluation report from a nationally recognized testing agency with a LABC or LARC Supplement for the CLT panels. A copy of the evaluation report and/or conditions of listing shall be made available at the job site.
 3. CLT walls shall clearly be identified on plans as part of the designated LFRS (i.e. CLT shear wall) or not part of the designated LFRS. *2021 AWC SDPWS B.2 Item 2*
 4. CLT shear walls shall be full-height within each story, CLT shear walls are not permitted to be designed as Force-Transfer Around Openings (FTAO) or as Perforated Shear Walls. *2021 AWC SDPWS B.2 Item 7*
 5. CLT panels forming a single-panel or multi-panel shear wall shall have aspect ratio, h/b_s , no greater than 4 and no less than 2. All CLT panels forming a multi-panel shear wall shall have the same panel height, h , and individual panel length, b_s . *2021 AWC SDPWS B.3.1 Item 2*

6. CLT panels utilized as shear walls shall be minimum 3.5 inch in thickness. Where angle connectors or vertical edge connectors are installed in both faces of the CLT panels, the panels shall be minimum 6.875 inches in thickness. *2021 AWC SDPWS B.3.1 Item 3*
7. Provide shear connections composed of prescribed steel angle connectors, nails, and bolts at the top and bottom of CLT shear walls in accordance with 2021 AWC SDPWS Section B.3.2. CLT multi-panel shear walls shall be composed of prescribed steel plate connectors and nails in accordance with 2021 AWC SDPWS Section B.3.3. *2021 AWC SDPWS B.3.2, B.3.3*
8. Provide hold-down systems at each end of the CLT shear wall, the hold-down system shall consist of tie-rod systems or conventional hold-down devices that use threaded anchor rods and nail, screw or bolt attachment to the CLT panel. *2021 AWC SDPWS B.3.4*
9. Load path connections of CLT wall panels shall be dowel-type fasteners designed to develop Mode III or Mode IV yielding, and comply with net section tension rupture, row tear-out, group tear-out in accordance with NDS Appendix E. Screws shall not be used in supplemental top and bottom of wall connections to supporting elements. *2021 AWC SDPWS B.3.6*
10. CLT shear walls with shear resistance provided by high aspect ratio panels shall comply with the following: *2021 AWC SDPWS B.3.7*
 - a. All CLT wall panels used as part of the LFRS shall have aspect ratio, h/b_s , equal to 4.
 - b. All CLT wall panels not used as part of the LFRS shall have aspect ratio, h/b_s , not less than 4.
11. CLT shear wall deflection, δ_{sw} , shall be calculated using Eq. B-1 in 2021 AWC SDPWS Section B.4. *2021 AWC SDPWS B.4*
12. ASD allowable shear capacity or LRFD factored shear resistance for CLT diaphragms and diaphragm shear connections shall be in accordance with 2021 AWC SDPWS 4.1.1. The nominal unit shear capacity, v_n , of CLT diaphragms shall be based on the nominal shear capacity for dowel-type fastener connections used to transfer diaphragm shear forces as calculated by 2021 AWC SDPWS 4.5.4, Item 1. *2021 AWC SDPWS 4.5.3*
13. ASD allowable shear capacity or LRFD factored shear resistance for CLT shear wall systems shall be in accordance with 2021 AWC SDPWS 4.1.1. Nominal unit shear capacity, v_s , of CLT shear wall panels shall be determined in accordance with Eq. B-2 in 2021 AWC SDPWS Section B.5. *2021 AWC SDPWS 4.6.3*
14. Special inspections of Mass Timber elements in Types IV-A, IV-B and IV-C construction shall be in accordance with CBC Table 1705.5.3. *CBC 1705.5.3*
15. Provide special inspections of mass timber elements per CBC 1705.5.3 and CBC Table 1705.5.3. *CBC T1705.5.3*
16. Continuous special inspection is required during field gluing operations of elements of the main wind force-resisting system. Periodic special inspection is required for nailing, bolting, anchoring and other fastening of elements of the main wind force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces and hold-downs.
Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the main wind force-resisting system, where the lateral resistance is provided by the structural sheathing and the specified fastener spacing at panel edges is more than 4 inches on center. *CBC 1705.12.1*
17. For the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E or F:
 - a. Continuous special inspection shall be required during field gluing operations of elements of the seismic force-resisting system.
 - b. Periodic special inspection shall be required for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms, drag struts, braces, shear panels and hold-downs.
Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the seismic force-resisting system, where the lateral resistance is provided by structural sheathing, and the specified fastener spacing of at the sheathing panel edges is more than 4 inches on center. *CBC 1705.13.2*

18. Periodic special inspections of sealants or adhesives shall be conducted where sealant or adhesive required by CBC Section 703.7 is applied to mass timber building elements as designated in the approved construction documents. *CBC 1705.20*
19. Connections used with fire-resistance rated members and in fire-resistance rated assemblies of Type IV-A, IV-B, or IV-C construction shall be protected for the time associated with the fire resistance rating. Protection time shall be determined by one of the following:
 - a. Testing in accordance with CBC Section 703.2 where the connection is part of the fire resistance test.
 - b. Engineering analysis that demonstrates that the temperature rise at any portion of the connection is limited to an average temperature rise of 250°F and a maximum temperature rise of 325°F for a time corresponding to the required fire resistance rating of the structural element being connected. For the purposes of this analysis the connection includes connectors fasteners and portions of wood members included in the structural design of the connection. *CBC 2304.10.1*
20. Floors shall be without concealed spaces. or with concealed spaces complying with CBC Section 602.4.4.3. Wood floors shall be constructed in accordance with CBC Section 2304.11.3.1 or 2304.11.3.2. *CBC 2304.11.3*
21. Roofs shall be without concealed spaces or with concealed spaces complying with CBC Section 602.4.4.4. Roof decks shall be constructed in accordance with CBC Section 2304.11.4.1 or 2304.11.4.2. Other types of decking shall be an alternative that provides equivalent fire resistance and structural properties. Where supported by a wall, roof decks shall be anchored to walls to resist forces determined in accordance with CBC Chapter 16. Such anchors shall consist of steel bolts, lags, screws or approved hardware of sufficient strength to resist prescribed forces. *CBC 2304.11.4*
22. Cross-laminated timber roofs shall be not less than 3 inches nominal in thickness and shall be continuous from support to support and mechanically fastened to one another. *CBC 2304.11.4.2*



CODE SECTION