

- Contractors responsible for the construction of a wind or seismic force resisting system/component listed in the Statement of Special Inspection shall submit a written statement of responsibility to the LADBS Inspectors and the owner prior to the commencement of work on such system or component per Sec 1704.4.
- Continuous Special Inspection by a registered deputy inspector is required for field welding, post-installed adhesive anchors installed horizontally or upwardly inclined to resist sustained tension loads, shotcrete placement, concrete strength $f'_{c} > 2500$ psi, sprayed-on fireproofing, engineered masonry, high-lift grouting, high load diaphragms, special moment-resisting concrete frames, and helical pile foundations. (1705 & Chapters 19, 21, and 22)
- Foundation sills shall be naturally durable or preservative-treated wood.
- Provide lead hole 40% - 70% of threaded shank diameter and full diameter for smooth shank portion.
- Periodic Special Inspection is required for wood shear walls, shear panels, and diaphragms, including nailing, bolting, anchoring, and other fastening to components of the seismic force resisting system. Special inspection by a deputy inspector is required where the fastener spacing of the sheathing is 4 inches on center or less.
- A copy of the Los Angeles Research Report and/or conditions of listing shall be made available at the job site.
- If adverse soil conditions are encountered, a soils investigation report may be required
 - Hold-down connector bolts into wood framing require approved plate washers; and hold-downs shall be finger tight and wrench turned just prior to covering the wall framing. Connector bolts into wood framing require steel plate washers on the post on the opposite side of the anchorage device. Plate size shall be a minimum of 0.299 inch by 3 inches by 3 inches. (2305.5)
 - Roof diaphragm nailing to be inspected before covering. Face grain of plywood shall be perpendicular to supports. Floor shall have tongue and groove or blocked panel edges. Plywood spans shall conform with Table 2304.8(1).
 - All diaphragm and shear wall nailing shall utilize common nails or galvanized box.
 - All bolt holes shall be drilled 1/32" to 1/16" oversized. (12.1.3.2, NDS)
 - Hold-down hardware must be secured in place prior to foundation inspection.

SECURITY NOTES

- All entry doors to dwelling units or guest rooms shall be arranged so that the occupant has a view of the area immediately outside the door without opening the door. Such view may be provided by a door viewer, through windows located in the vicinity of the door or through view ports in the door or adjoining wall. (6706)
- Screens, barricades, or fences made of a material which would preclude human climbing shall be provided at every portion of every roof, balcony, or similar surface which is within 8 ft. of the utility pole or access structures. (6707)
- Wood flush-type doors shall be 1 3/8" thick minimum with solid core construction. (6709.1) Door stops of in-swinging doors shall be of one-piece construction with the jamb, or joined by rabbet to the jamb. (6709.4)
- Every door in a security opening for an apartment house shall be provided with incandescent light bulb (60 watt min) at a maximum height of 6 feet on the exterior side of the unit. (6709)
- All pin-type door hinges accessible from outside shall have non-removable hinge pins. Hinges shall have min. 1/4" dia. steel jamb stud with 1/4" min. protection. The strike plate for latches and holding device for projecting dead bolts in wood construction shall be secured to the jamb and the wall framing with screws no less than 2-1/2" long. (6709.5, 6709.7)
- Provide dead bolts with hardened inserts; deadlocking latch with key-operated locks on exterior. Doors must be operable from the inside without a key, special knowledge, or special effort (latch not required in B, F, M and S occupancies). (6709.2)
- Straight dead bolts shall have a min. throw of 1" and an embedment of not less than 5/8", and a hook-shaped or an expanding-lug deadbolt shall have a minimum throw of 3/4". (6709.2)
- Wood panel type doors must have panels at least 9/16 inch thick with shaped portions of the panels not less than 1/4 inch thick, and individual panels must be no more than 300 sq. in. in area. Mullions shall be considered a part of adjacent panels except mullions not over 18 inches long may have an overall width of not less than 2 inches. Stiles and rails shall be of solid lumber in thickness with overall dimensions of not less than 1 3/8 inches and 3 inches in width. (6709.1 item 2)
- Sliding glass doors shall be provided with a device in the upper channel of the moving panel to prohibit raising and removal of the moving panel from the track while in the closed position. (6710)
- Sliding glass doors shall be equipped with locking devices and shall be so constructed and installed that they remain intact and engaged when subjected to the tests specified in Sec. 6717.1
- Metal or wooden overhead and sliding doors shall be secured with a cylinder lock, padlock with a min. 9/32" diameter hardened steel shackle bolted, hardened steel hasps, metal slide board, bolt or equivalent device unless secured electrically operated. (6711)
- Provide metal guides at top and bottom of metal accordion grate or grille-type doors and cylinder locks or padlocks. Cylinder guards shall be installed on all cylinder locks whenever the cylinder projects beyond the face of the door or is otherwise accessible to gripping tools. (6712)
- In Group B, F, M, and S occupancies, panes of glazing with at least one dimension greater than 6 in, but less than 48 in, shall be constructed of tempered or approved burglary-resistant material or protected with metal bars or grilles. (6714)
- Glazed openings within 40" of the door lock when the door is in the closed and locked position, shall be fully tempered glass or approved burglary-resistant material, or shall be protected by metal bars, screens or grilles having a maximum opening of 2". The provisions of this section shall not apply to view ports or windows which do not exceed 2" in their greatest dimensions.
- Louvered windows shall be protected by metal bars or grilles with openings that have at least one dimension of 6" or less, which are constructed to preclude human entry. (6715.3)
- Other operable windows shall be provided with substantial locking devices. In Group B, F, M and S occupancies, such devices shall be glide bars, bolts, cross-bars, and/or padlocks with minimum 9/32" hardened steel shackles and bolted, hardened steel hasps. (6715.2)
- Sliding windows shall be provided with locking device in the upper channel of the moving panel to prohibit raising and removal of the moving panel in the closed or partially open position. (6715.1)
- Sliding windows shall be equipped with locking devices and shall be so constructed and installed that they remain intact and engaged when subjected to the tests specified in Sec. 6717.2.
- Any release for metal bars, grilles, grates or similar devices constructed to preclude human entry that are installed shall be located on the inside of the adjacent room and at least 24 inches from the closest opening through such metal bars, grilles, grates or similar devices that exceeds two inches in any dimension. (6715.4)
- All other openings must be protected by metal bars or grilles with openings of not less than 6 inches in one dimension. (6716)

- Unfired service water-heater storage tanks and backup tanks for solar water-heating systems shall have:
 - External insulation with an installed R-value of at least R-12, or
 - Internal and external insulation with a combined R-value of at least R-16, or
 - The heat loss of the tank surface based on an 80°F water-air temperature difference shall be less than 6.5 Btu/hr per square foot. [110.3 (c)4]
- For Nonresidential, high-rise residential, and hotel/motel buildings, space conditioning systems shall meet the efficiency standards specified Section 120.2.
- Continuously burning pilot light shall be prohibited for the following natural gas system or equipment listed below: [110.5]
 - Fan-type central furnaces
 - Household cooking appliances, except for

household cooking appliances without an electrical supply voltage connection and in which each pilot consumes less than 150 Btu/hr

c. Pool heaters

d. Spa heaters

14. Any pool or spa heating system or equipment shall: [110.4]

- A thermal efficiency that complies with the Appliance Efficiency Regulations
- Have a readily accessible on-off switch, mounted on the outside of the heater that allows shutting off the heater without adjusting the thermostat setting.
- Not utilize electric resistance heating.
- Have a cover for outdoor pools or spas that have a heat pump or gas heater.
- Have a permanent, easily readable, and weatherproof instruction card that gives instructions for the energy efficient operation of the pool or spa heater and for the proper care of pool or spa water when a cover is used.
- Have at least 36 inches of pipe installed between the filter and heater or dedicated suction and return lines, or built-in or built-up connections shall be installed to allow for the future addition of solar heating equipment.
- Have directional inlets for the pool or spa that adequately mix the pool water.
- A time switch or similar control mechanism shall be installed as part of a pool water circulation control system that will allow all pumps to be set or programmed to run only during the off-peak electric demand period and for the minimum time necessary to maintain the water in the condition required by applicable public health standards.

15. Manufactured fenestration products and exterior doors shall have air infiltration rates not exceeding 0.3 cmf/ft2 of window area, 0.3 cmf/ft2 of residential door area, 0.3 cmf/ft2 of nonresidential single door area, and 1.0 cmf/ft2 of nonresidential double door area. [110.6(a)1]

16. Fenestration products shall be rated in accordance with NFRC 100 for U-factor, NFRC 200 for SHGC, and VT or use the applicable default value. Fenestration products shall have a temporary label for manufactured fenestration products or a label certificate when the Component Modeling Approach is used and for site-built fenestration meeting the requirements of Section 10-111(a)1. [110.6(a)2, 110.6(a)3, 110.6(a)4, 110.6(a)5]

17. Field-fabricated fenestration products and exterior doors, other than unframed glass doors and fire doors, shall be caulked between the fenestration products or exterior door and the building, and shall be weatherstripped. [110.6(b)]

18. Joints, penetrations and other openings in the building envelope that are potential sources of air leakage shall be caulked, gasketed, weather stripped, or otherwise sealed to limit infiltration and exfiltration. [110.7]

19. Insulation shall be certified by Department of Consumer Affairs, Bureau of Home Furnishing and Thermal Insulation that the insulation conductive thermal performance is approved pursuant to the California Code of Regulations, Title 24, Part 12, Chapter 12-13, Article 3, "Standards for Insulating Material." [110.8(a)]

20. Urea formaldehyde foam insulation may only be used in exterior side walls, and requires a four-mil-thick plastic polyethylene vapor barrier between the urea formaldehyde foam insulation and the interior space in all applications. [110.8(b)]

21. Insulating material shall be installed in compliance with the flame spread rating and smoke density requirements of the CBC. [110.8(c)]

22. Insulation installed on an existing space conditioning duct, it shall comply with Section 604.0 of the CMC. [110.8(d)3]

23. External insulation installed on an existing unfired water storage tank or on an existing back-up tank for a solar water-heating system, it shall have an R-value of at least R-12, or the heat loss of the tank surface based on an 80 EF water-air temperature difference shall be less than 6.5 Btu per hour per square foot. . [110.8(d)2]

E. Residential Notes:

- A masonry or factory-built fireplace shall have the following: [150.0(e)1]
 - Closeable metal or glass doors covering the entire opening of the firebox;
 - A combustion air intake to draw air from the outside of the building directly into the firebox, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device (Exception: An outside combustion-air intake is not required if the fireplace will be installed over concrete slab flooring and the fireplace will not be located on an exterior wall.); and
 - A flue damper with a readily accessible control. [150.0 (e)C]
- Heating or cooling systems shall be equipped with a setback thermostat that meet the requirements of

opening of the firebox:

- A combustion air intake to draw air from the outside of the building directly into the firebox, which is at least six square inches in area and is equipped with a readily accessible, operable, and tight-fitting damper or combustion-air control device (Exception: An outside combustion-air intake is not required if the fireplace will be installed over concrete slab flooring and the fireplace will not be located on an exterior wall.); and
- A flue damper with a readily accessible control. [150.0 (e)C]

2. Heating or cooling systems shall be equipped with a setback thermostat that meet the requirements of Section 110.2(c). [150.0(i)]

- Gas or propane water heaters shall have: [150.0(n)]
 - A 120V electrical receptacle that is within 3 feet from the water heater.
 - A Category III or IV vent, or a Type B vent with straight pipe.
 - Condensate drain that is no more than 2 inches higher than the base.
 - A gas supply line with a capacity of at least 200,000 Btu/hr

4. All pumps and pump motors installed shall be listed in the Commission's directory of certified equipment and shall comply with the Appliance Efficiency Regulations. [150.0(p)1.A]

5. The minimum installed weight per square foot of any loose-fill insulation shall conform with the insulation manufacturer's labeled R-value. [150.0 (b)]

6. The minimum depth of concrete-slab floor perimeter insulation shall be 16 inches or the depth of the footing of the building, whichever is less. [150.1(c)1(D)]

7. The crawl space shall be covered with a vapor retarder over the entire floor. [150.1(c)1.D]

8. Insulations are required for: [150.0(j)2.A]

- All hot water pipes from the heating source to the kitchen fixtures.
- All piping with a nominal diameter of 3/4 inch or larger.

c. The first 5 feet (1.5 meters) of hot and cold water pipes from the storage tank.

d. All piping associated with a domestic hot water recirculation system.

e. Piping from the heating source to storage tank or between tanks.

f. Piping buried below grade.

9. Insulation shall be provided for water heaters as follows:

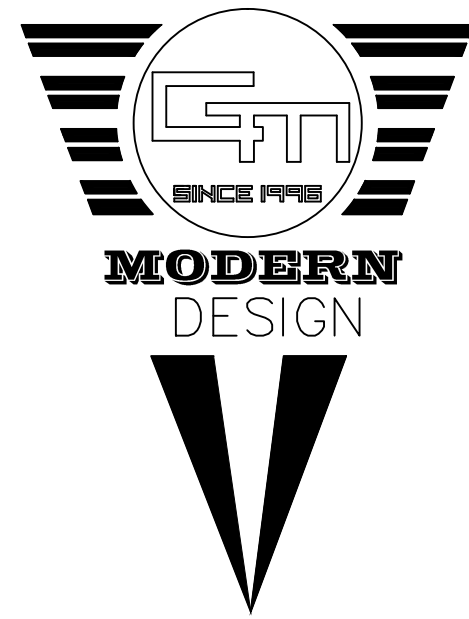
a. Unfired hot water tanks, such as storage tanks and backup storage tanks for solar water-heating systems, shall be externally wrapped with insulation having an installed thermal resistance of R-12 or greater or have internal insulation of at least R-16 and a label on the exterior of the tank showing the insulation R-value. [150.0 (j)1]

10. Lighting [150.0(k)]

a. Installed luminaires shall be classified as high-efficacy in accordance with TABLE 150.0-A.

b. Exhaust fans shall be switched separately from lighting systems.

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