LACRC SECTION R327 (Effective January 1st, 2023)

AGING-IN-PLACE DESIGN AND FALL PREVENTION

R327.1 Aging-in-place design and fall prevention. Newly constructed dwellings subject to the requirements of this code shall be designed and constructed in accordance with Sections R327.1.1 through R327.1.4.

Exceptions:

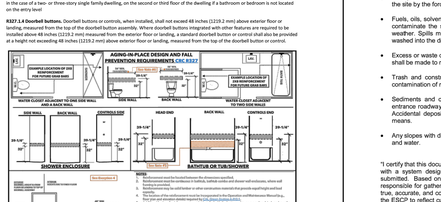
1. Covered multifamily dwellings designed and constructed in accordance with Chapter 11A of the California Building Code.
2. Public housing and places of public accommodation required to comply with Chapter 11B of the California Building Code.

R327.1.1 Reinforcement for grab bars. At least one bathroom on the entry level shall be provided with reinforcement installed in accordance with this section. Where there is no bathroom on the entry level, at least one bathroom on the second or third floor of the dwelling shall comply with this section.

R327.1.2 Electrical receptacle outlet, switch and control heights. Electrical receptacle outlets, switches and controls (including controls for heating, ventilation and air conditioning) intended to be used by occupants shall be located no more than 48 inches (1219.2 mm) measured from the top of the outlet box and not less than 15 inches (381 mm) measured from the bottom of the outlet box above the finish floor.

R327.1.3 Interior doors. Effective July 1, 2024, at least one bathroom and one bedroom on the entry level shall provide a doorway with a net clear opening of not less than 32 inches (812.8 mm), measured from the face of the door stop to the face of the door jamb when the door is open, in the case of a two- or three-story single family dwelling, on the second or third floor of the dwelling if a bathroom or bedroom is not located on the entry level

R327.1.4 Doorbell buttons. Doorbell buttons or controls, when installed, shall not exceed 48 inches (1219.2 mm) above exterior floor or landing, measured from the top of the doorbell button assembly. Where doorbell buttons integrated with other features are required to be installed above 48 inches (1219.2 mm) measured from the exterior floor or landing, a standard doorbell button or control shall also be provided at a height not exceeding 48 inches (1219.2 mm) above exterior floor or landing, measured from the top of the doorbell button or control.



BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES*

Storm Water Pollution Control Requirements for Construction Activities
Minimum Water Quality Protection Requirements for All Development Construction Projects/Certification Statement

The following is intended as minimum notes or as an attachment for building and grading plans and represent the minimum standards of good housekeeping that must be implemented on all construction sites regardless of size. (Applies to all permits)

- Every effort should be made to eliminate the discharge of non-stormwater from the project site at all times.
- Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheetflow, swales, area drains, natural drainage courses or wind.
- Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
- Fuels, oils, solvents and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
- Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
- Trash and construction related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
- Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
- Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

"I certify that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I am aware that submitting false and/or inaccurate information, failing to update the ESCP to reflect current conditions, or failing to properly and/or adequately implement the ESCP may result in revocation of grading and/or other permits or other sanctions provided by law."

Print Name _____
(Owner or authorized agent of the owner)

Signature _____ Date _____

(Owner or authorized agent of the owner)

*The above Best Management Practices are detailed in the latest edition of the California BMP Handbook or Caltrans Stormwater Quality Handbooks.

LOS ANGELES COUNTY/BUILDING &SAFETY DIVISION
Standard Construction Notes
VERY HIGH FIRE HAZARD SEVERITY ZONE
2023 LA County Residential Code – Section R337
2023 LA County Building Code – Chapter 7A

Notes: 1) Additional State Fire Marshal approved materials and methods may be found in California Referenced Standards Code, Part 12. 2) Prior to permit final approval, the property shall be in compliance with the **vegetation management requirements**. 3) The use of gypsum, coating, stains or other surface treatments are not an approved method of compliance [R337.5.3/7307.6.5, 703.A.5.3].

APPLICATION – [R337.2.1/701A]

1. New buildings.
2. Additions, alterations or repairs made to existing buildings within Wildland-Urban Interface (WUI) Fire Area or Fire Hazard Severity Zone
3. Detached Accessory Building Exceptions:
   a. Any structures located at least 50 ft from an applicable building.

ROOFING – [R337.5/705A]:

4. Roofs shall have a roofing assembly installed in accordance with its listing and the manufacturer's installation instructions. Wood shingles and wood shakes are prohibited in any Fire Hazard Severity Zone regardless of classification.
5. **Fire-retardant-treated wood shingles and shakes** shall be approved and listed by the California State Fire Marshal and have passed the weathering test. [R902.2/703A.5.2.2]
6. Roof covering shall be Class A [R902.1.1]:
   a. The entire roof covering of every existing structure where more than 50% of the total roof area is **replaced** within any one-year period,
   b. The entire roof covering of every **new structure**, or
   c. And any roof covering applied in the alteration, repair or replacement of the roof of every **existing** structure.
7. Where the roof profile allows space **between the roof covering** and roof decking: [R337.5.2]
   a. The spaces shall be constructed to prevent the intrusion of flames and embers,
   b. Be fire stopped with approved materials, or
   c. Have one layer of minimum 72-pound mineral-surfaced nonperforated cap sheet complying with ASTM D 3909 installed over the combustible decking.
8. Where **roof valley flashing** is installed [R337.5.3]:
   a. The flashing shall be not less than 0.019-inch No. 26 gage galvanized sheet installed over not less than on layer of minimum 72-pound mineral-surfaced non-perforated cap sheet complying with ASTM D 3909, at least 36-inch-wide running the full length of the valley.

Roof gutters shall be provided with the means to prevent the accumulation of leaves and debris in the gutter. [R337.5.4]

VENTS – [R337.5/706A]:

General – Sec. R337.6.1/706A.1

Where provided, ventilation openings enclosed attics, gable ends, ridge ends, under eaves and cornices, enclosed eave soffit spaces, enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters, and underfloor ventilation shall be accomplished with the Sec. 1202 and R337.6.2.

Requirements R337.6.2/706A.2

10. Ventilation openings shall be fully covered with Wildland Flame and Ember Resistant (WUI) vents approved and listed by the California State Fire Marshal, or WUI vents listed to ASTM E2886.

Off Ridge and Ridge Vents – R337.6.2.1/706A.2.1:

11. Vents that are installed on a sloped roof, such as dormer vents, shall comply with all the following:
   a. Openings shall be between 1/16th and 1/8th inch.
   b. The materials shall be noncombustible except vents located beyond the roof covering, along the ridge, with noncombustible wire mesh.
   c. The materials shall be corrosion resistant.

EXTERIOR COVERING – Sec. R337.7/707A

Note: The following **exterior covering materials** shall conform to this section: Exterior wall covering or assembly, underside of roof eave overhangs or soffits, underside of exterior porch ceilings, underside of floor projections, and underfloor areas. **The following are exempt:** architectural trim, fascia and gutters; roof or wall corner projections or similar, and deck walking surfaces complying with Section 337.9.

Exterior walls – R337.7.3/707A.3

12. Exterior wall covering or wall assembly shall be one of the following:
   a. Noncombustible material,
   b. Ignition-resistant material*
   c. Heavy Timber Construction
   d. Log Wall Construction
   e. Complies with ASTM E2707 and SFM Standard 12-7A-1
   f. Exterior fire exposure with a 1-hour fire-resistance rating, rated from the exterior side, as tested in accordance with ASTM E119 or UL 263.
   g. Exterior fire exposure containing one layer of 5/8-inch (15.9 mm) Type X gypsum sheathing applied behind the exterior wall covering or cladding on the exterior side of the framing.
   h. Factory fire-retardant treated wood

Eave of Exterior Wall Coverings - R337.7.3.7/707A.3.1

13. Exterior wall coverings shall extend from the top of the foundation to
   a. the roof and terminate at 2-inch nominal solid wood blocking between rafters at all roof overhangs,
   b. or in the enclosed eaves, terminate at the enclosure.

Open (Exposed) Roof Eaves – R337.7.5/707A.5

14. The **exposed roof deck** on the underside of unenclosed roof eaves shall consist of one of the following:
   a. Noncombustible material.
   b. Ignition-resistant material.*
   c. Factory fire-retardant treated wood
   d. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside exterior of the roof deck.
   e. Exterior portion of a 1-hour fire-resistance-rated exterior assembly applied to the underside of the roof deck designed for fire exposure per Gypsum Association Fire Resistance Design Manual and tested in accordance with ASTM E119 or UL263

Exceptions: Fascia and architectural trim boards.

Enclosed Roof Eaves and Roof Eave Soffits – R337.7.6/707A.6

15. The **exposed underside of enclosed roof eaves** having either a boxed-in roof eave soffit with a horizontal underside, or sloping rafter tails with an exterior covering applied to the underside of the rafter tails, shall be protected by one of the following:
   a. Noncombustible material
   b. Ignition-resistant material*
   c. Factory fire-retardant treated wood
   d. Materials approved for not less than 1-hour fire resistance-rated construction on the exterior side as tested by ASTM E119 or UL 263.
   e. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the rafter tails.
   f. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   g. Boxed-in roof eave soffits per Section 337.7.11, when tested in accordance with ASTM E2957.
   h. Boxed-in roof eave soffits per SFM Standard 12-7A-3.

Exceptions: Fascia and other architectural trim boards.

Exterior Porch Ceilings – R337.7.7/707A.7

16. The exposed underside of exterior porch ceilings shall be protected by one of the following:
   a. Noncombustible material.
   b. Ignition-resistant material.*
   c. Factory fire-retardant-treated wood shall be labeled for exterior use and shall meet the requirements of Section 2303.2 of the California Building Code.
   d. Materials approved for not less than 1-hour fire resistance-rated construction on the exterior side as tested in accordance with ASTM E119 or UL 263.
   e. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the ceiling.
   f. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   g. Porch ceiling assemblies with a horizontal underside that meets Section R337.7.11, when tested in accordance with ASTM E2957.
   h. Porch ceiling assemblies with a horizontal underside that meets SFM Standard 12-7A-3.

Exception: Architectural trim boards.

Floor Projections - R337.7.8/707A.8

17. The exposed underside of a cantilevered floor projection where a floor assembly extends over an exterior wall shall be protected by one of the following:
   a. Noncombustible construction.
   b. Ignition-resistant material.*
   c. Factory fire-retardant treated wood
   d. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
   e. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   f. The underside of a floor assembly that meets the performance of Section R337.7.11
   g. The underside of a floor assembly that meets SFM Standard 12-7A-3.

Exceptions: Fascia and other architectural trim boards.

Underfloor Protection - R337.7.9/707A.9

18. The under-floor area of elevated or overhanging buildings shall be enclosed (and fire proofed) to grade or the underside of the exposed under-floor shall be protected by one of the following:
   a. Noncombustible construction.
   b. Ignition-resistant material.*
   c. Factory fire-retardant-treated wood shall be labeled for exterior use and shall meet the requirements of Section 2303.2 of the California Building Code.
   d. Materials approved for not less than 1-hour fire resistance-rated construction on the exterior side as tested in accordance with ASTM E119 or UL 263.
   e. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
   f. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   g. Boxed-in underfloor assemblies that meets Section R337.7.11

Exception: Heavy Timber Construction

Underside of Appendages - R337.7.10/707A.10

19. The underside of overhanging appendages shall be enclosed to grade in accordance with the requirements similar to the exposed underfloor.
   a. Noncombustible construction.
   b. Ignition-resistant material*
   c. Factory fire-retardant-treated wood shall be labeled for exterior use and shall meet the requirements of Section 2303.2 of the California Building Code.
   d. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
   e. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   f. The underside of a floor projection assembly that meets Section R337.7.11.
   g. The underside of an appendage assembly that meets SFM Standard 12-7A-3.

Exception: Heavy Timber Construction

EXTERIOR WINDOWS AND DOORS – R337.8/708A

Exterior Glazing – R337.8.2/708A.2

The following exterior glazing materials and/or assemblies shall comply with exterior windows, exterior glazed doors, glazed openings within exterior doors, glazed openings within exterior garage doors, exterior structural glass veneer, skylights, and vents.

Exterior Windows and Exterior Glazed Door Assembly Requirements – R337.8.2.1/708A.2.1

20. Exterior windows and exterior glazed door assemblies shall comply with one of the following:
   a. Multi-pane glazing with a minimum of one tempered pane meeting the Safety Glazing requirements of CBC Sec. 2406 and R308.
   b. Glass block units.
   c. 20-minute fire-resistance rating.
   d. Meet SFM Standard 12-7A-2

Operable Skylights

21. Protected by a noncombustible mesh screen where the dimensions of the openings in the screen do not exceed 1/8 inch

Structural Glass Veneer – R337.8.2.3/708A.2.3

22. The wall assembly behind the structural glass veneer shall comply with the wall requirement of Sec. R337.7.3/707A.3.

Exterior Doors – R337.8.3/708A.3

23. Exterior doors shall comply with the following:
   a. The exterior surface or cladding shall be of noncombustible or ignition-resistant material, or
   b. Constructed of solid core wood that complies with the following:
      i. Stiles and rails shall not be less than 1-3/8 inches thick.
      ii. Raised panels shall not be less than 1-1/4 inch thick, except for perimeter of the raised panel that may taper to a tongue not less than 3/8-inch thick.
   c. Fire-resistance rating of not less than 20 minutes.
   d. The exterior surface or cladding shall be tested to meet the performance requirements to Section 707.A.3.1 when tested in accordance with ASTM E2707.
   e. Meet SFM Standard 12-7A-1.

Exterior Door Glazing – R337.8.3.1/708A.3.1

24. Shall meet the requirements of R337.8.2.1/708A.2.1 above.

Garage Door Perimeter Gap

25. Exterior garage doors shall resist the intrusion of embers from entering by protecting the gap between doors and door openings, at the bottom, sides and tops of doors, from exceeding 1/8 inch. Gaps between doors and door openings shall be controlled by one of the following methods:
   a. Weather stripping hazards
   b. Door overlaps onto jambs and headers
   c. Garage door jambs and headers covered with metal flashing

DECKING – R337.9/709A

26. The **walking surface material** of decks, porches, balconies and stairs when any portion of such surface is within 10 ft of the building shall comply with the following:
   a. Material that complies with conditions of acceptance in Sections R337.9.4 when tested in accordance with both ASTM E2632 and ASTM E2726.
   b. Ignition-resistant material shall comply with performance requirements of Section R337.9.4.
   c. Material that complies with the performance requirements of both SFM Standard 12-7A-4 and Section R337.4.3.

   Exception: Wall material shall be permitted to be of any material that otherwise complies with this chapter when the decking surface complies with ASTM E84 with Class B flame spread index.
   d. Any material that complies with Section R337.9.5 when tested with ASTM E2635 and when the attached exterior wall covering is also composed of only noncombustible or ignition-resistant materials.

   Exception: Wall material shall be permitted to be of any material that otherwise complies with this chapter when the decking surface complies with ASTM E84 with Class B flame spread index.

ACCESSORY STRUCTURES – R337.10/710A

27. Group U occupancy accessory buildings and miscellaneous structures that have potential to pose a significant exterior fire exposure hazard during wildfires shall be constructed with ignition resistance.

Note: Applicable to accessory dwellings on the same lot including attached and detached miscellaneous structures that require permit such as trellises, arbors, patio covers, gazebos, and similar structures.

28. Miscellaneous structures and accessory dwellings separated from or ignitable buildings on the same lot by less than 3 feet but less 50 feet shall be constructed or noncombustible or ignition resistant materials.
29. Roofs of accessory buildings required to be noncombustible, or ignition resistant materials shall be Class A rating and comply with ASTM E108 and UL790 following roofing requirements of Section 337 and Chapter 9.

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* Ignition-resistant material shall be labeled for exterior use and shall meet the requirements of Section R337.4.2, following requirements of R337.4.3 or alternative methods of R337.4.4. Materials shall comply with conditions Items 1 and 2 below or with the conditions of acceptance of ASTM E2768.

1. The material shall exhibit a listed flame spread index of not exceeding 25 when tested in accordance with ASTM E84 or UL 723.
2. ASTM E or UL723 testing shall be continued for an additional 20-minute-period, and the material shall exhibit a flame front that does not progress more than 10 ½ feet (3200 mm) beyond the centerline of the burner at any time during the test period.

Standard Construction Notes
VERY HIGH FIRE HAZARD SEVERITY ZONE

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY DIVISION

GREEN BUILDING STANDARDS CODE
GENERAL NOTES

GENERAL PROJECT INFORMATION

PLAN CHECK NO. _____ DISTRICT NO _____
JOB ADDRESS _____ CITY _____ ZIP _____

NOTE: Numbers in the parenthesis ( ) refer to sections of the 2023 edition of the County of Los Angeles Green Building Standards Code, Table (T).

INSTRUCTIONS

- The following notes must be included on the plans.

GENERAL REQUIREMENTS

1. Plumbing fixtures and fixture fittings on the plans shall comply with the following flow rates:
   a. Water Closets – 1.28 GPF
   b. Urinals – 0.5 GPF
   c. Wall-mounted urinal – 0.125 GPF
   d. Single showerhead – 1.8 GPM at 80psi
   e. Multiple showerheads – 1.8 GPM at 80psi for all combined showerheads
   f. Lavatory faucets – 1.2 GPM at 60psi
   g. Lavatory faucets in public use areas – 0.5 GPM at 60psi
   h. Metering faucets – 20 gallons per cycle
   i. Kitchen faucets – 1.8 GPM at 60psi (4.303.1)
2. Annular spaces around pipes, electrical cables, conduits, or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry, or a similar method acceptable to the enforcing agency. (4.406.1)
3. Fireplaces shall be direct vent sealed combustion type. Indicate on the plans the manufacturer name and model number. (4.503.1)
4. At the time of rough installation, during storage on the construction site, and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal, or other acceptable methods to reduce the amount of water, dust and debris which may enter the system. (4.504.1)
5. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed when the framing members exceed 19% moisture content. Insulation products which are visibly wet or have high moisture content shall be replaced or allowed to dry prior to enclosure in wall or floor cavities. (4.505.3)
6. All mechanical exhaust fans in rooms with a bathtub or shower shall comply with the following:
   a. Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
   b. Fans must be controlled by a readily accessible humidistat unless functioning as a component of a whole house ventilation system. Humidity control shall be capable of adjustment between a relative humidity range of 50% and 80%. (4.506.1)
7. Adhesives, sealants and caulks shall meet or exceed the standards outlined in Section 4.504.2.1 and comply with the VOC limits in Tables 4.504.1 and 4.504.2 as applicable. (4.504.2.1)
8. Paints and coatings shall meet or exceed the standards outlined in Section 4.504.2.2 and comply with the VOC limits in Table 4.504.3. (4.504.2.2)
9. Aerosol paints and coatings shall meet or exceed the standards outlined in Section 4.504.2.3. (4.504.2.3)
10. All carpet installed in the building interior shall meet all the testing and product requirements of one of the following:
   a. Carpet and Rug Institute's Green Label Plus Program OR
   b. California Department of Public Health Standard Method for the testing of VOC Emissions (Specification 01350) OR
   c. NSF/ANSI 140 at the Gold Level OR
   d. Scientific Certifications Systems Indoor Advantage Gold (4.504.3)
11. All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label Program. Carpet adhesives shall not exceed a VOC limit of 50 g/L. (4.504.3.1, 4.504.3.2)

12. A minimum of 80% of floor area receiving resilient flooring shall comply with one of the following:
   a. Products certified as a Low-Emitting Material in the CHPS High Performance Products Database, OR
   b. Products certified under UL GREENGUARD Gold (Formerly the Greenguard Children & Schools program), OR
   c. RFCI FloorScore program, OR
   d. Meet the California Department of Public Health Standard Method for the testing of VOC Emissions (Specification 01350) (4.504.4)
13. Composite wood products (hardwood plywood, particle board, and MDF) installed on the interior or exterior of the building shall meet or exceed the standards outlined in Table 4.504.1. Verification of compliance with these sections must be provided at the time of inspection. (4.504.5)

TABLE 4.504.3/TABLE 5.504.4.3
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS[1,2]
Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY	VOC LIMIT	COATING CATEGORY	VOC LIMIT
Flat coatings	50	Magnesite cement coatings	450
Nonflat coatings	100	Mastic texture coatings	100
Nonflat high-gloss coatings	150	Metallic pigmented coatings	500
		Multi-color coatings	250
Specialty primers, sealers, and undercoaters	100	Pretreatment wash primers	420
Aluminum roof coatings	400	Primers, sealers, and undercoaters	100
Bituminous roof coatings	50	Reactive penetrating sealers	350
Bituminous roof primers	350	Recycled coatings	250
Bond breakers	350	Roof coatings	50
Concrete curing compounds	350	Rust preventative coatings	250
Concrete/masonry sealers	100	Shellacs, Clear	730
		Shellacs, Opaque	550
Driveway sealers	50	Specialty primers, sealers and undercoaters	100
Dry fog coatings	150	Stains	250
Faux finishing coatings	350	Stone consolidants	450
Fire resistive coatings	350	Swimming pool coatings	340
Floor coatings	100	Traffic marking coatings	100
Form release compounds	250	Tub and tile refinish coatings	420
Graphic arts coatings (sign paints)	500	Waterproofing membranes	250
High temperature coatings	420	Wood coatings	275
Industrial maintenance coatings	250	Wood preservatives	350
Low solids coatings[3]	120	Zinc-rich primers	340

1. Grams of VOC per liter of coating, including water and including exempt compounds.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.
3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 2, 2008. More information is available from the Air Resources Board.

TABLE 4.504.5/TABLE 5.504.4.5
FORMALDEHYDE LIMITS[1]
Maximum Formaldehyde Emissions in Parts per Million

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.08
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard[2]	0.13

1. Values in this table are derived from those specified by the California Air Resources Board, Airborne Toxic Control Measure, Phase 2 formaldehyde emission limits for composite wood products, effective January 1, 2012. For additional information, see California Code of Regulations, Title 17, Section 93120 et seq.
2. The medium density fiberboard has a maximum thickness of 9/16 inch (8mm).

TABLE 4.504.2/TABLE 5.504.4.2
SEALANT VOC LIMIT
Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

SEALANTS	VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural	
Nonporous	250
Porous	775
Marine deck	760
Other	760
Plastic foams	650

Note: For additional information regarding methods to measure the VOC content specified in the table, see South Coast Air Quality Management District Rule 1168.

TABLE 4.504.1/TABLE 5.504.4.1
ADHESIVE VOC LIMIT[1,2]
Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

ARCHITECTURAL APPLICATIONS	VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet pad adhesives	150
Wood flooring adhesives	100
Rubber floor adhesives	60
Small scale repairs	250
Large scale repairs	250
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives	50
SPECIALITY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30

1. Weight of VOC per volume of adhesive less water and exempt compounds.
2. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be used.
3. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168.

Standard Notes for "Electric Ready" Requirements per the 2022 California Building Energy Efficiency Standards

NOTE: These requirements apply to new construction for single family residential buildings and new detached ADU buildings.

Water Heating System (Option 1) - Section 150.0(n)

- Provide a designated space (2.5' by 2.5' wide and 7.5' tall) within 3 feet of gas water heater.
- Provide a 20A/1P circuit to a receptacle outlet near the gas water heater.
- Reserve the space next to this circuit breaker and label both as "for future 240V use".
- Provide the receptacle circuit with 3#10 conductors + #10 ground.
- Provide a minimum 50A rated breaker space.
- Mark the junction box cover as "240V ready".
- Cold and hot water supply lines pass through the designated space as described in 150.0(n)1Y(B)iii)iv)-vi).

Energy Storage Ready - Section 150.0(s)

- Provide main service panel with a minimum 225A busbar rating.
- Provide a minimum 60A rated subpanel.
- Provide a minimum 60A rated breaker in the subpanel.
- Reserve at the following panel and circuits in the subpanel:
   - Refrigerator receptacle outlet
   - Microwave receptacle
   - Lighting circuit near primary egress
   - Any circuit chosen by the installer/designer.
- Provide sufficient space between the main panel and subpanel for future transfer equipment.

Heat Pump Space Heater Ready - Section 150.0(t)

- Provide a junction box within 3 feet of the gas furnace with a minimum 30A rated branch circuit wiring (3 #10 conductors + #10 ground).
- Mark the junction box cover as "240V ready".
- Reserve a 2 pole breaker space and label as "for future 240V use".

Electric Cooktop Ready - Section 150.0(u)

- Provide a junction box within 3 feet of the gas cooktop with no obstructions and with a minimum of 50A rated branch circuit conductors (3 #6 conductors + #10 ground).
- Mark the junction box cover as "240V ready".
- Reserve a 2 pole breaker space and label as "for future 240V use".

Electric Clothes Dryer Ready - Section 150.0(v)

- Provide a junction box within 3 feet of the gas dryer with no obstruction with a minimum 30A rated branch circuit conductors (3 #10 conductors + #10 ground).
- Mark the junction box cover as "240V ready".
- Reserve a 2 pole breaker space and label as "for future 240V use".

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUILDING AND SAFETY DIVISION

RESIDENTIAL PLAN
GENERAL NOTES

GENERAL PROJECT INFORMATION

PLAN CHECK NO. _____ DISTRICT NO _____
JOB ADDRESS _____ CITY _____ ZIP _____

NOTE: Numbers in the parenthesis ( ) refer to sections of the 2023 edition of the County of Los Angeles Building Code (BC), Residential Code (R), Plumbing Code (PC), Mechanical Code (MC), Electrical Code (EC), and Green Building Standards Code (GC).

INSTRUCTIONS

- The following notes must be included on the plans.

SECURITY REQUIREMENTS

1. Exterior doors, doors between house and garage, windows and their hardware shall conform to the Security Provisions of Chapter 67 of the Los Angeles County Building Code (LACBC).
   a. Single swinging doors, active leaf of a pair of doors, and the bottom leaf of Dutch doors shall be equipped with a latch and a deadbolt key operated from the outside. Deadbolt shall have a minimum insert with 1" minimum throw and 5/8" minimum embedment into the jamb. If the latch is a key locking feature, it shall be dead latch type.
   (BC6709.2)
   b. Inactive leaf of a pair of doors and the upper leaf of Dutch doors shall have a deadbolt as per paragraph "a", unless it is not key operated from the exterior, or has a hardened deadbolt at top and bottom with 1" throw. (BC6709.3)
   c. Swinging wood door(s) shall be solid core not less than 1-3/8" thick. (BC6709.4, 7.1)
   d. Panels of wood doors shall be 9/16" thick and not more than 300 sq. inches. Stiles and rails be 1-3/8" thick and 3" minimum width. (BC6709.1.2)
   e. Door hinge pins accessible from the outside shall be non-removable. (BC6709.5)
   f. Door stops of wood jambs of in-swinging doors shall be one piece construction or joined by a rabbet. (BC 6709.4)
   g. Windows and door lights within 40" of the locking device of the door shall be fully tempered/approved burglary resistant/protected by bars, screens or grills. (BC6714)
   h. Overhead and sliding garage doors shall be secured with a cylinder lock, a padlock with a hardened steel shackle, or equivalent when not otherwise locked by electric power operation. Jamb locks shall be on both jambs for doors exceeding 9 feet in width (BC6711)
   i. Sliding glass doors and sliding glass windows shall be capable of exceeding the tests set forth in Section 6706 and 6707 of the Los Angeles County Building Code and shall bear a label indicating compliance with these tests. (BC 6710, 6715)

CONSTRUCTION REQUIREMENTS

2. Notching of exterior and bearing/nonbearing walls shall not exceed 25% / 40% of its width, respectively. Bored holes in bearing/nonbearing walls shall not exceed 40% / 60% of its diameter, respectively. (R602.6)
3. Interior finishes in Group R-3 shall have a flame spread index of not greater than 200, and a smoke-developed index of not greater than 450. (R302.9)
4. Provide fire blocking in concealed spaces of stud walls, partitions, including furred spaces, at the ceiling and floor level, and at 10-foot intervals both vertical and horizontal. (R302.11)
5. Ducts installed under a floor in a crawl space shall not prevent access to an area of the crawl space. Where it is required to move under ducts for access to areas of the crawl space, a vertical clearance of 18" minimum shall be provided. (MC 603.1)
6. Where flashing is of metal, the metal shall be corrosion resistant with a thickness of not less than .019 inch (No. 26 galvanized sheet). (R903.2.1)
7. Note on the plans "Roof diaphragm nailing to be inspected before covering. Face grain of plywood shall be perpendicular to supports."
8. Subfloors shall have end-matched lumber, have blocked panel edges, or cover over supports. Floor sheathing shall comply with Section R503.
9. Provide a note: "SMOKE ALARM shall be interconnected hard-wired with battery backup and shall be installed in accordance with NFPA 72." (R314)
10. Provide a note: "CARBON MONOXIDE ALARM shall be interconnected hard-wired with battery backup." (R315)

11. Finish materials including adhesives, sealants, caulk, paints & coatings, carpet systems, etc. shall meet the (VOC) emission limits per LACGBSC Chapter 4.
12. In newly constructed dwelling units, electrical receptacle outlets, switches and controls shall be located no more than 48-in. measured from the top of the outlet box and not less than 15-in. from the bottom of the outlet box above the finish floor. (R327.1.2)
13. In newly constructed dwelling units, doorbell button or controls, shall not exceed 48-in. above exterior floor or landing, measured from the top of the doorbell button assembly. (R327.1.4)
14. Provide a note on the plans "Fasteners for preservative-treated or fire-retardant-treated wood shall be of hot dipped zinc-coated galvanized steel in accordance with ASTM A 153." (R317.3)

GLAZING REQUIREMENTS

15. The following shall be considered specific hazardous locations requiring safety glazing per Section R308:
   a. Glazing in fixed and operable panels of swinging, sliding, and bifold doors.
   b. Glazing in fixed or operable panels adjacent to a door where the nearest vertical edge of the glazing is within a 24-inch arc of either vertical edge of the door in a closed position and where the bottom exposed edge of the glazing is less than 60 inches above the walking surface.
   c. Glazing in fixed and operable panels of swinging, sliding, and bifold doors.
   d. One lower of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the floor projection.
   e. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.
   f. The underside of a floor assembly that meets the performance of Section R337.7.11
   g. The underside of a floor assembly that meets SFM Standard 12-7A-3.

   Exceptions: Fascia and other architectural trim boards.

Exterior Porch Ceilings - R337.7.7/707A.7

16. The exposed underside of exterior porch ceilings shall be protected by one of the following:
   a. Noncombustible material.
   b. Ignition-resistant material.*
   c. Factory fire-retardant-treated wood shall be labeled for exterior use and shall meet the requirements of Section 2303.2 of the California Building Code.
   d. Materials approved for not less than 1-hour fire resistance-rated construction on the exterior side as tested in accordance with ASTM E119 or UL 263.
   e. One layer of 5/8-inch Type X gypsum sheathing applied behind an exterior covering on the underside of the ceiling.
   f. The exterior portion of a 1-hour fire resistive exterior wall assembly designed for exterior fire exposure.