



## **BUILDING DESIGN CRITERIA**

**Based upon 2019 California Code of Regulations Title 24**

*(Applicable to all new applications received after January 1, 2020)*

**2019 Applicable Codes:** (as amended by the City of Santa Rosa, Ordinance # ORD-2019-022, ORD-2019-019, ORD-2019-021)

- 2019 California Building Code (based upon the 2018 International Building Code)
- 2019 California Residential Code (based upon the 2018 International Residential Code)
- 2019 California Green Building Standards Code (Including Chapters A4 & A5 at Tier I levels for new structures excluding sections A4.2 & A5.2 for enhanced energy. Note: See energy standards below)
- 2019 California Energy Code (with all-electric design for new residential)
- 2019 California Electrical Code (based upon the 2017 National Electric Code)
- 2019 California Plumbing Code (based upon the 2018 Uniform Plumbing Code)
- 2019 California Mechanical Code (based upon the 2018 Uniform Mechanical Code)
- 2019 California Fire Code (based upon the 2018 International Fire Code)
- 2018 International Property Maintenance Code (as amended by the City of Santa Rosa)

### **Seismic Design:**

- Occupancy Category I, II or III structures will typically be Seismic Design Category D. Areas of the city where the mapped spectral response acceleration parameter at 1-second period, S<sub>1</sub>, is greater than or equal to 0.75 will be Seismic Design Category E. Occupancy Category IV structures located where the mapped spectral acceleration parameter at 1-second period, S<sub>1</sub>, is greater than or equal to 0.75 will be Seismic Design Category F. (2019 CBC Section 1613)
- Use site soil **Class D** unless otherwise indicated in a geotechnical report specific to the site.
- Review and Abatement of Existing Buildings: See SR City Code Chapter 18-48.

### **Wind Design**

- The Basic Wind Speed (Ultimate design) is 95 miles per hour for risk category II buildings (2019 CBC Figure 1609.3(1), 3-second gust wind speed. See Figures 1609.3(2), 1609.3(3) and 1609.3(4) for other risk categories). (110 mph per 2019 CRC)
- The wind design shall comply with **Exposure B or C** requirements, depending upon location within the City. Areas in the southern, western, and northern parts of the City require Exposure **C** design. See GIS maps for specific wind zone area.

**Climate Zone:** For Title 24 Energy Efficiency Design: Zone 2.

### **Wildland-Urban Interface Areas:**

- Some geographical areas in the City of Santa Rosa are at significant risk from wildfires and require design compliance with CBC Chapter 7A or CRC Section R337. These areas are delineated on the Wildland Urban Interface Fire Zone Map located on the City's GIS.

**Santa Rosa City Code link:** <http://qcode.us/codes/santarosa/> (Chapter 18)

Planning and Economic Development web link to Building Division: <https://srcity.org/262/Building-Division>