

Building Codes and Resources

Effective January 1, 2023, the City of Rancho Cordova adopted the 2022 California Building Standards Code, Title 24 of the California Code of Regulations, and local City Code Amendments per Ordinance Numbers 16 thru 28-2022

Reference of effective codes should be noted on plans as applicable:

- a) The **2022** California Building Code (based on the 2021 International Building Code), California Mechanical Code (based on 2021 Uniform Mechanical Code), California Plumbing Code (based on 2021 Uniform Plumbing Code), California Electrical Code (based on 2020 National Electrical Code), California Fire Code (based on 2021 International Fire Code), California Energy Standards, California Residential Code (based on 2021 International Residential Code), and California Green Building Code (CALGreen).
- b) City of Rancho Cordova Municipal Code - [Title 16 BUILDINGS AND CONSTRUCTION](#)

Code and Design Resources

- California Building Standards - [2022 California Building Standards Code](#)
- Seismic Design Parameters - [ASCE 7 Hazard Tool](#)
- Visit these helpful energy tools, training, and resources - [Energy Code Ace - Home Page](#)
- California Energy Code Resources - [2022 Building Energy Efficiency Standards and Forms | energy.ca.gov](#)
- APA - Plywood/OSB Over Spaced-Board Roofs (Form No. P300) - [APA - Resource Library](#)
- [Accessory Dwelling Unit Handbook | hcd.ca.gov](#)
- CAL Green Checklists, Guides and 2022 Code - [CALGreen | dgs.ca.gov](#)
- [Permitting Electric Vehicle Charging Stations: Best Practices | business.ca.gov](#)
- Residential electrical service load calculator and other electrical formulas - [MikeHolt.com](#)

Accessibility Resources

- The Division of the State Architect (DSA) offers reference materials on the application and use of the accessibility provisions of the California Building Code (CBC) - [Access Compliance Reference Materials | dgs.ca.gov](#)
- Commission promotes disability access through - [California Commission on Disability Access | dgs.ca.gov](#)
- Employment and Independent Living for Californians with Disabilities - [California Department of Rehabilitation | dor.ca.gov](#)
- The Americans with Disabilities Act (ADA) offers information and technical assistance for people with disabilities from discrimination - [The Americans with Disabilities Act | ADA.gov](#)

Basic Minimum Design

Wind:	<p>Exposure Category C (unless Exposure B can be justified by an engineering study) CBC Basic Wind Speed, 3-Second Gusts (CBC 1609.3)*: 90 mph for Risk Category I; 95 mph for Risk Category II; 105 mph for Risk Category III/IV. CRC Ultimate Wind Speed = 110 mph* ASD = 85 mph* *Lower design speeds are evaluated on a project specific basis.</p>	
Seismic:	<p>Unless otherwise justified by analysis, all buildings and non-building structures within the City limits are assigned to Seismic Design Category (SDC) D or higher, except as follows: SDC D_o for residential buildings permitted and constructed under the CRC. Soil Site Class D-default shall be assumed for all sites per CBC 1613.2.2 unless otherwise justified by a registered design professional and/or geotechnical report.</p>	
Soils Report:	<p>Soils reports are required for new buildings. Allowable Soil Bearing Pressure of 1500 psf without a soils report may be used for single family residential infill up to two story, small additions, renovations, and minor structures (sheds, utility structures, fences, etc.). It is the designer's responsibility to identify if expansive soil is present. If present, a soils report is necessary per CBC Section 1803 and CRC Section R401.4. An addendum to the soils report is required if the report is more than three years old or if the soils report references the previous code cycle.</p>	
Energy Design:	<p>Climate Zone 12</p>	
Temperature:	<p>Air Freezing Index (100 Year 99%): 6 Mean Annual Temperature: 60.6°F</p>	
Rainfall:	<p>1.5-inch per hour max for structural design of roof framing elements. 3-inch per hour in a 100-year storm for the purpose of sizing roof drains, conductors, leaders, and gutters (Municipal Code 16.24)</p>	
Water Pressure:	<p>40 psi max guaranteed water pressure. Residential: Use current CPC Table 610.4, Pressure Range 30 - 45 psi <u>or</u> Appendix A. Fixture Unit Count is based on 150 ft developed length. Developed length to include minimum 20 ft setback from water meter to structure. Minimum 7 units must be added for sprinklers. Meter size must be specified.</p>	
Gas Pressure:	<p>Gas: Natural Inlet Pressure: Less than 2 psi Pressure Drop: 0.5-inch water column Specific Gravity: 0.60</p>	<p>Residential Gas Test*: 10 lbs. 15 minutes Commercial Gas Test*: Duration shall not be less than half hour for each 500 ft³ of pipe volume or fraction thereof; provide a 24-hour graph test for welded gas piping or gas piping 2-inch or larger. *Or as per gas piping manufacturer specifications.</p>
<p>Please Note: Each permit may have different requirements due to specific project needs.</p>		