

Building and Model Codes & Structural Design Criteria

Policy and Procedure No.: **B-04-12**

January 2023

Purpose:

The purpose of this policy is to establish minimum design guidelines to safeguard life or limb, health, property, and public welfare particular to the City of Elk Grove. The design criteria established shall be used as the basis for building and structural design of structures proposed in Elk Grove. **Effective January 1, 2023**, the California Building Standards Commission adopted the 2022 California Code of Regulations Title 24. The City of Elk Grove Municipal Ordinance is as follows.

Building Design Criteria:

Commercial Projects:

- 2022 California Building Code (CBC)

Residential Projects:

- 2022 California Residential Code (CRC) for Non-Structural Code Compliance
- 2022 California Building Code (CBC) for Empirical Structural Design

Commercial & Residential Projects:

- 2022 California Fire (CMC)
- 2022 California Mechanical Code (CMC)
- 2022 California Electrical Code (CEC)
- 2022 California Plumbing Code (CPC)
- 2022 California Energy Code
- 2022 California Green Building Standards
- 2022 California Historical Code
- 2022 California Existing Building Code

Structural Design Criteria:

Wind Speed: **Risk Category II**
 $V_{asd} = 93$ mph

[CBC, Section 1609.3, Table 1609.3.1 or ASCE 7-16 Chapters 26 through 30] Design Criteria:
<https://hazards.atcouncil.org/>

Wind Exposure Category [CBC, Section 1609.4]

Commercial **C**

Residential **C**

(Unless **B** can be justified by a recognized engineering study and for Master Plan Housing Developments only)

Seismic Category: **D**

Unless justified by an analysis provided by a license design professional and approved by the Building Division [CBC, Section 1613.1 Tables 1613.2.5(1) & 1613.2.5(2)]

Foundation:

Allowable Design Soil Bearing Pressure = 1500 psf (unless justified by a geotechnical investigation [CBC 1806, Table 1806.2])

Note: Geotechnical Investigation Report is required for all New Commercial and Master Plan Projects.

Energy Design Criteria:

Climate Zone: **12**