

Building and Model Codes & Structural Design Criteria

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

November 2016

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 in this policy shall be used as the basis for building and structural design of structures proposed in this jurisdiction.

Adoption:

Effective January 1, 2017, the California Building Standards Commission adopted the 2016 California Code of Regulations Title 24. The City of Elk Grove by Ordinances §16.04, §16.10, §16.14, §16.24, §16.28, §16.32 shall enforce the following model codes:

Building Design Criteria:

Commercial Projects:

- 2016 California Building Code (CBC)

Residential Projects:

- 2016 California Residential Code (CRC) for Non-Structural Code Compliance
- 2016 California Building Code (CBC) for Empirical Structural Design

Commercial & Residential Projects:

- 2016 California Mechanical Code (CMC)
- 2016 California Electrical Code (CEC)
- 2016 California Plumbing Code (CPC)
- 2016 California Energy Code
- 2016 California Green Building Standards

Structural Design Criteria:

Wind Speed: $V_{ult} = \underline{110}$ mph (Ultimate)

$V_{asd} = \underline{85}$ mph (Nominal)

[2016 CBC, Section 1609.3, Table 1609.3.1 or ASCE 7-10 Chapters 26 through 30]

Wind Exposure Category

[2016 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**

[2016 CBC, Section 1613.3.5 & Tables 1613.3.5(1) & 1613.3.5(2)]

Foundation: **Allowable Design Soil Bearing Pressure = 1500 psf** (unless justified by a geotechnical investigation report)

[2016 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**