



BUILDING AND STRUCTURAL DESIGN CRITERIA

The purpose of this guideline is to provide a summary of the code adoption and design criteria applicable to the City of Milpitas. The design criteria shall be used as the basis for building and structural design of structures proposed in this jurisdiction.

Building Design Criteria

- 2019 California Building Code (CBC)
- 2019 California Mechanical Code (CMC)
- 2019 California Electrical Code (CEC)
- 2019 California Plumbing Code (CPC)
- 2019 California Energy Code (CEnC)
- 2019 California Fire Code (CFC)
- 2020 Milpitas Municipal Code (MMC)

Structural Design Criteria

- **Wind Speed:**
Design wind speeds can be found on the ASCE 7 Hazard Tool website found here:
<https://asce7hazardtool.online/>
- **Seismic Design Category:** D for 2019 CBC, D2 for 2019 CRC
- **Foundation Design Parameters:**

The following foundation design parameters shall be used unless higher values are justified by a soils report:

Footing

Allowable Soil Bearing Pressure	=	1500 psf
Allowable Lateral Bearing Pressure	=	100 psf/ft below natural grade
Allowable Sliding Resistance	=	Min. of [(130 psf x A) not to exceed (0.5 x DL)] where A = footing/soil contact area DL = dead load on footing

Allowable Frictional Resistance for Piers = 250 psf

Allowable Lateral Bearing Pressure for Isolated Poles (for uses such as flagpoles, signs and fences that are not adversely affected by a 0.5" motion at the ground surface due to short-term lateral load) (sections 1806.1, 1806.2 & 1806.3) = 266 psf/ft

Energy Design Criteria

- **Climate Zone:** 4