



BUILDING STRUCTURAL DESIGN CRITERIA

COMMERCIAL BUILDINGS (2024 IBC)

- General _____ See 2024 IBC Chapter 16
- Wind Load _____ See 2024 IBC Section 1609 (No Special Wind Region)
- Snow Load _____ 10 psf (ground), Ref 2024 IBC Sec 1608 & ASCE 7 Ref
- Seismic loads _____ 2024 IBC Section 1613

RESIDENTIAL BUILDINGS (2024 IRC)

- Wind Speed _____ 90 mph (No Special Wind Region)
- Snow Load (Ground) _____ 10 psf
- Seismic Design Category _____ C
- Weathering _____ Severe
- Frost Line Depth _____ 12 inches
- Termite _____ Moderate to Heavy
- Winter Design Temperature _____ 19⁰ F
- Ice Barrier Underlayment _____ Not required
- Air Freezing Index _____ 210
- Mean Annual Temperature _____ 59.4

MANUAL J DESIGN CRITERIA

- Elevation _____ 980 feet
- Latitude _____ 35⁰ North
- Winter Heating _____ 19⁰ F
- Summer Cooling _____ 90⁰ F
- Altitude Correction Factor _____ 0.97
- Indoor Design Temperature _____ 70⁰ F (Heat)
- Design Temperature Cooling _____ 75⁰ - 70⁰ F
- Heating Temperature Difference _____ 51⁰ F
- Cooling Temperature Difference _____ 15⁰ - 20⁰ F
- Wind Velocity Heating _____ 15 mph
- Wind Velocity Cooling _____ 7.5 mph
- Coincident Wet Bulb _____ 74⁰ F
- Daily Range _____ Medium
- Winter Humidity _____ 70⁰ db no visible condensation
- Summer Humidity _____ 50% @ 75⁰ db