



City of Aurora

ENGINEERING DESIGN CRITERIA

ADOPTED BUILDING CODES • 2015 International Codes • 2014 National Electrical Code

Permit Center • 15151 E. Alameda Parkway, Ste. 2400 • Aurora, CO 80012 • 303-739-7420 • Fax: 303-739-7551

Email: permitcounter@auroragov.org

CLIMATIC AND GEOGRAPHIC CRITERIA:

Roof Snow Load	30 psf. (Pergola 20 psf.)
Ground Snow Load	34 psf.
Basic Wind Speed	115 mph Risk Category II, 120 mph Risk Category III-IV, 105 mph Risk Category I (3-second gust all categories)
Special Wind Region	No
Topographic Effects	No
Exposure Category	IRC R301.2.1.4 or IBC 1609.4.3
Seismic Design Category Residential	B
Seismic Design Category Commercial	Per IBC chapter 16
Weathering	Severe
Minimum Frost Depth for Foundations	36 inches
Winter Design Temperature	1 DEGREE (F)
Ice Barrier Underlayment Required	Yes
Flood Hazard	Varies – See City Code Chapter 70
Air Freezing Index	712
Mean Annual Temperature	50 DEGREES (F)

COMMERCIAL FLOOR LOADS:

IBC Table 1607.1

RESIDENTIAL FLOOR LOADS:

Live Load	40 psf. (30 psf. in sleeping areas)
Dead Load	10 psf.
Duration of Load	1.00
Deflection	L/360

RESIDENTIAL ROOF LOADS:

Duration of Load	1.15 (Snow)
Deflection	L/180 Rafters (no ceiling); L/240 (ceiling) L/240 Beams

RESIDENTIAL EXTERIOR DECKS:

Live Load	40 psf.
Dead Load	10 psf.
Maximum Soil Bearing Pressure	1500 psf. (unknown soils) R401.4.1

COMMERCIAL EXTERIOR DECKS:

Same as occupancy served