



2010 CITY OF AURORA ENGINEERING DESIGN CRITERIA

ADOPTED BUILDING CODES: 2006 International Codes
2008 National Electrical Code

SNOW LOADS:

Roof Snow Load	30 pounds per square foot
Ground Snow Load	34 pounds per square foot

WIND LOADS:

Basic Wind Speed	100 mph (3-second gust)
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SEISMIC DESIGN:

Seismic Design Category	IRC: B
Seismic Design Category	IBC: Per chapter 16

CLIMATIC CONDITIONS:

Heating Degree Days	6283
Winter Design Temperature	1 DEGREE (F)
Summer Dry Bulb	91 DEGREES (F)
Summer Wet Bulb	63 DEGREES (F)
Air Freezing Index	712
Mean Annual Temperature	50 DEGREES (F)
Minimum Frost Depth for Foundations	36 inches

COMMERCIAL FLOOR LOADS:

Re: IBC Table 1607.1

RESIDENTIAL FLOOR LOADS:

Live Load	40 pounds per square foot (30 psf in sleeping areas)
Dead Load	10 pounds per square foot (psf)
Duration of Load	1.00
Deflection	L/360

RESIDENTIAL ROOF LOADS:

Live Load	30 psf (attic = 10psf no storage, 20 psf limited storage)
Dead Load	10 psf Rafters (asphalt shingles) 20 psf Rafters (tile roofing) or per manufacturer
Duration of Load	1.15 (Snow)
Deflection	L/180 Rafters (no ceiling); L/240 (ceiling) L/240 Beams

RESIDENTIAL EXTERIOR DECKS: 40 pounds per square foot

COMMERCIAL EXTERIOR DECKS: Same as occupancy served