

DESIGN CRITERIA
BUILDING DIVISION

CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA - COCONINO COUNTY

Designations for Table R301.2 (1) as Follows:

- A. Ground Snow Load – Coconino County Ground Snow Loads are established through a Case Study (CS) and references the “Ground Snow Load Case Study for Coconino County”.
- B. Wind Speed: 115 Ultimate Design Speed (mph).
- C. Seismic Design Category: C
- D. Weathering: Moderate
- E. Coconino County into Climate Zone: See Table R301.2 (1).
- F. Frost Line: See Table R301.2 (1).
- G. Termite – Site Specific: Moderate to Heavy.
- H. Ice Barrier Underlayment Required: See Table R301.2 (1).

TABLE R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

Ground Snow Load	Climate Zone			Wind Design				Seismic Design Category	Subject to Damage from			Winter Design Temp (°F)	Ice Barrier Underlayment Required	Flood Harards	Air Freezing Index (°F)	Mean Annual Temp (°F)
	Elevation (ft)	Climate Dsignation	Climate Zone	Ultimate Design Speed (mph)	Topogra- phic Effects	Special Wind Region	Windborne Debris Zone		Weathering	Frost Line Depth (in)	Termite					
See Snow Load Study	3000 to 4500	Warm-Dry	3B	115	No	No ^a	No	C	Moderate	12		25	No			59
	4500 to 5700	Mixed-Dry	4B	115	No	No ^a	No	C	Moderate	24	Moderate	15	Yes	Contact CD	Less Than 1500	55
	5700 to 7100	Cool-Dry	5B	115	No	No ^a	No	C	Moderate	30	to Heavy	4	Yes	Engineering		46
	7100 to 8500	Cold-Dry	6B	115	No	No ^a	No	C	Moderate	30		-5	Yes			43

a. There is a Special Wind Region that follows the Little Colorado River valley.

- I. Flood Hazard – The Flood Plain Administrator is the Director of Coconino County Community Development.

ADOPTED CODES – Ordinance 2019-10

- A. 2018 International Building Code
- B. 2018 International Residential Code
- C. 2018 International Mechanical Code
- D. 2018 International Fuel Gas Code
- E. 2018 International Plumbing Code
- F. 2018 International Energy Conservation Code
- G. 2018 International Existing Building Code
- H. 2017 National Electric Code

Area	Elevation (feet)	Ground Snow Load (psf)
Coconino County	Above 8000	Design according to accepted engineering practice
North Rim	8500	Design according to accepted engineering practice
Coconino County	7500 to 8000	75
Forest Lakes	7500	75
Hart Prairie	7750	75
Jacob Lake	7920	75
Kendrick Park	7880	75
Coconino County	6500 to 7500	60
Baderville	7300	60
Clear Creek Pines	7000	60
Doney Park	7000	60
Flagstaff	7000	60
Fort Valley	7300	60
Happy Jack	7490	60
Kachina Village	6775	60
Mormon Lake	7100	60
Mountainaire	6775	60
Parks	7000	60
Pinewood	6600	60
Starlight Pines	7000	60
Tusayan	6600	60
Valle	6000	60
Coconino County	5500 to 6500	45
Coconino County	4000 to 5500	30
Alpine Ranchos	4800	30
Ash Fork	5200	30
Cameron	4200	30
Fredonia	4700	30
Leupp	4800	30
Oak Creek Canyon	4500	30
Seligman	5200	30
Tuba City	5000	30
Twin Arrows	4850	30
Winslow	4800	30
Coconino County	Below 4000	20
Greenhaven	3650	20
Marble Canyon	3600	20