

Residential Design Loads

- Roof live load
 - Oregon Residential Specialty Code R301.6

*Historically, 20# is used for residential roof snow loads within the City of Pendleton

Roof Slope	Tributary loaded area in square feet	Tributary loaded area in square feet	Tributary loaded area in square feet
	0 to 200	201 to 600	Over 600
Flat or rise less than 4 inches per foot (1:3)	20	16	12
Rise 4 inches per foot (1:3) to less than 12 inches per foot	16	14	12
Rise 12 inches per foot (1:1) and greater	12	12	12

- Ground snow load determination
 - Use online lookup tool at snowload.seao.org/lookup.html. See ORSC 301.2.3.1
- ORSC table 301.2(1)
 - Wind = 102mph
 - Frost Depth = 24"
 - Seismic Design Category = C

Commercial/Industrial Design Loads

-Basic design wind speed determination from Oregon Structural Specialty Code (OSSC) 1609.3

- Risk Category I = 95 mph
- Risk Category II = 102 mph
- Risk Category III = 109 mph
- Risk Category IV= 113 mph

-Frost Depth 24”

-Snow load determinations in accordance with ASCE 7-10 as modified by OSSC 1608

- Use snowload.seao.org/lookup.html to determine ground snow load
- Follow design path outlined in OSSC 1608.2.4
- Historically, 20# is used for design snow loads

-Seismic Design Category is determined by spectral response acceleration parameter, as provided within OSSC 1613. Historically Pendleton is a category C.