

City of Bozeman



BUILDING INSPECTION DIVISION

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The following minimum values are to be utilized for designing structures within the City of Bozeman jurisdictional area:

- ◆ Specify the method of design: strength design or allowable stress design
- ◆ Building Classification Category I: Seismic Factor $I_E = 1.00$, Snow Factor $I_S = 1.0$, and Wind Factor $I_W = 1.00$
- ◆ Site Soils Classification: To be determined by a soils analysis by a geotechnical engineer or engineering geologist
- ◆ Seismic: Design Category 'D'
- ◆ Wind Speed: $V_{3s} = 90$, $V_{fm} = 75$, and Exposure C
- ◆ Basic Ground Snow Load: 46 PSF* (per Snow Loads for Design in Montana F.F. Videon & J.P. Schinlke, 1989).
- ◆ Roof Snow Load: 32.2 psf; Engineered Truss Snow Load 40 psf
- ◆ Roof Design: Based on 100 Year, 1 hour rainfall of 1.22 inches
- ◆ Frost Depth – 3 ft – 1 story building
4 ft – 2 story building

* Higher elevation areas on the **east** side of town may need to design for higher snow loading due to greater volume of snow and greater potential for wind driven snow accumulation.