



Building Services  
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## BUILD-21 Engineering Design Standards

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**What are Engineering Design Standards?** They are the standards used by those who design buildings to ensure that they have adequate strength to resist the loads placed upon them. For example, before you build a roof, you will want to know the amount of snow (in our area) that the roof will need to withstand without bending or collapsing.

The City of Spokane has adopted the following Engineering Design Standards:

**Ground Snow Load:** 39 pounds per square foot

**Basic Wind Speed (mph):** 85 mph (3-second gust) Exposure B (Urban and Suburban areas)

**Seismic Design Category:** C

**Weathering:** Severe

**Frost Line Depth:** 24 inches

**Termite:** Slight

**Decay:** Slight

**Winter Design Temperature:** 20 degrees Fahrenheit

**Ice Shield Underlayment Required:** Yes

**Air Freezing Index:** ~1250

**Mean Annual Temperature:** 47.2 degrees Fahrenheit