



# CITY OF HOOD RIVER

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## Minimum Building Design Requirements

Due to the unique environment of the Columbia River Gorge and the City of Hood River, please adhere to the below Specialty Codes when designing your next building project.

### Oregon Residential Specialty Code (ORSC)

**Snow Load:** Table R301.2(1)

- For elevations below 500 feet, the ground snow load is 70-psf
- Alternatively, the ground snow load is generally 45-50-psf within the city limits when using the \*Snow Load Analysis for Oregon.

**Seismic Design:** Section R302.2

- Category D1 Table R301.2(2).

**Wind Load:** Table R301.2(4)

- Ultimate wind speeds are 120-mph (93-mph ASD) except for structures with full exposure to the Columbia River Gorge are 135-mph (105-mph ASD).

**Frost Depth:** Table R301.2(1)

- 24" minimum

### Oregon Structural Specialty Code (OSSC)

**Snow Load:** \*Snow Load Analysis for Oregon:

- Generally, the ground snow load is 45-50-psf within the city limits.

**Seismic Site Class:** Assumed Seismic Site Class Category D:

- Soils report or geotechnical report required to use a different seismic site class.
- See Section 1613.2.2, 2019 OSSC

**Wind Load:** Basic Design Wind speeds per Table 1609.3 are as follows:

- 92-mph (72-mph ASD) for Risk Category I structures
- 98-mph (76-mph ASD) for Risk Category II structures
- 105-mph (82-mph ASD) for Risk Category III structures
- 109-mph (85-mph ASD) for Risk Category IV structures

**For structures with full exposure to the Gorge the Basic Design Wind speeds are as follows:**

- 125 mph (97-mph ASD) for Risk Category I
- 135 mph (105-mph ASD) for Risk Category II
- 145 mph (113-mph ASD) for Risk Categories III and IV.

**Wind Exposure:**

- Exposure "C" assumed. Section 1609.4

**Frost Depth:**

- 24" minimum. Section 1809.5

**\*Resources**

- <http://snowload.seao.org/lookup.html>
- <https://hazards.atcouncil.org/>