

BUILDING DESIGN CRITERIA

Northwest Code Professionals - Jackson County Oregon Jurisdictions

Detached One and Two Family Residential:
2017 Oregon Residential Specialty Code- ORSC (2015 IRC)

Commercial and others:
2019 Oregon Structural Specialty Code – OSSC (2018 IBC)

Prescriptive Residential (One and Two-Family Dwellings and Accessory)²

Wind Speed	Wind Exposure Category	Seismic	Roof Snow (Non-reducible) See Note 1 below	Allowable Soil Bearing Pressure	Frost Level
120 mph ULT 93 mph ASD See R301.2.1 for additional information.	Site Specific: See R301.2.1.3 for definition and criteria	D1 See (R301.2.2.2 for seismic limitations)	<u>Below 2000 ft</u> 36 psf Ground Snow 25 psf Roof Snow <u>Above 2000 ft</u> Calculated from ground snow per “Snow Load Analysis of Oregon”, by Structural Engineers of Oregon. See note 1 below for information.	1500 PSF without Soils Report (R401.4.1)	12 inches at elevations below 2500 ft (18 inches otherwise)

Commercial and Other

Wind Speed		Wind Pressure	Wind Exposure	Seismic	Snow	Allowable Soil Bearing Pressure	Frost Level
Risk	Basic ⁴	ASD ⁴	Site Specific. Typically, “B” (Some may be “C”) See OSSC 1609.4	SDC D Site specific per OSSC 1613	See OSSC 1608 for Snow load and design. See note 1 below.	1500 PSF without Soils Report OSSC 1806.2	12 inches at elevations below 2500 ft. (18 inches otherwise)
I	90	69.3					
II	96	73.9					
III	103	79.3					
IV	107	82.4					

Notes:

- 1. Snow Load:** Per OSSC 1608, ground snow loads shall be determined in accordance with Chapter 7 of ASCE 7, as modified by Section 1608.2. Ground snow loads, p_g , shall be set forth in the online lookup tool at <http://snowload.seao.org/lookup.html>, published by the Structural Engineers Association of Oregon. See OSSC 1608 for additional information.
- 2. Prescriptive design** criteria for residential is applicable to the provisions and limitations of the ORSC. Non-prescriptive designs (engineered) are required to comply with OSSC design criteria. See ORSC R301 for additional information.
- View Current Oregon Codes **online** at Oregon Building Codes Division: <https://www.oregon.gov/bcd/codes-stand/Pages/adopted-codes.aspx>
- Basic wind speed per OSSC Table 1609.3. Per OSSC 1609.3.1, $V_{asd} = V\sqrt{6}$

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