



KLAMATH COUNTY

COMMUNITY DEVELOPMENT DEPARTMENT

Building Division, Planning Division, Code Enforcement, On-Site Sanitation, Parks and Solid Waste Division

305 Main Street, Klamath Falls, OR 97601

(541) 883-5121 – Fax (541) 885-3644

www.klamathcounty.org

Klamath County Design Criteria

- 2021 Oregon Electrical Specialty Code (OESC) based on 2020 NEC Effective April 1, 2021 and Oregon Amendments
- 2022 Oregon Fire Code (OFC) based on 2021 IFC Effective Oct 1, 2022
- 2022 Oregon Mechanical Specialty Code (OMSC) based on 2021 IMC Effective Oct. 1, 2022
- 2021 Oregon Plumbing Specialty Code (OPSC) based on UPC Effective April 1, 2021
- 2021 Oregon Residential Specialty Code (ORSC) Effective April 1, 2021, Mandatory Oct. 1, 2021
- 2022 Oregon Structural Specialty Code (OSSC) based on 2021 IBC Effective Oct. 1, 2022, Mandatory April 1, 2023
- 2021 Oregon Energy Efficiency Specialty Code (OEESC) Effective April 1, 2021, Mandatory Oct. 1, 2021

General Design Criteria:

1. OSSC section 1613 is used to design for earthquake loads. Seismic design category shall be "D" unless site specific conditions increase design category to "E or F" (reference codes American Society of Civil Engineers ASCE/SEI 7-16). Residential projects falling under the ORSC shall use seismic zone per Figure R301.2.2.1 and the "ATC Hazards by Location" website.
2. OSSC section 1609.1.1 is used for wind design. The design ultimate wind speed is determined from figures 1609.3 and Table 1609.3. See section 1609.3.1 for additional design information. Residential projects falling under the ORSC shall use wind speed per Table R301.2 (1). See section R301.2.1.3 for addition all design information. For special wind regions, see Figure R301.2.1 and the "ATC Hazards by Location" website.
3. Most areas of Klamath County can be classified as wind exposure category C. However, some areas may meet the criteria for exposure B (typically within Urban Growth/City Limits). The design professional is responsible for justifying the exposure selected for the specific areas of construction.
4. Soils bearing pressure is 1500 pounds per square foot, unless justified by a soils report. A lesser bearing pressure may be required in specific locations.
5. Ground snow loads are site specific and are published from the Structural Engineers Association of Oregon "Snow Load Analysis for Oregon" 3rd edition Dec 2007. However **design** snow loads shall be a minimum of 20 pounds per square foot, with factors: slope, exposure, thermal, importance, drifting, etc.
6. Rainfall design is site specific and based on U.S. Weather Bureau Technical paper Number 40: 100-year 60 minute storm. Klamath County has four rainfall zones (3, 9, 10 and 13).
7. The frost depth for foundation design is 24 inches below grade.
8. Flood Loads OSSC 1612 and ORSC section R301.2.4 (if applicable).
9. Building permit fees can be determined from each application form, ball park (project valuation <\$400K+2.5 % valuation, over \$500K+2%) typically fees have not exceeded these ballpark figures.



KLAMATH COUNTY
BUILDING DIVISION

Snow Load Design Criteria Request

OWNER NAME _____ PHONE _____

MAIL ADDRESS _____

Provide a brief description of your project: _____

LOCATION Provide one or more of the following for your project location:

1. Address _____

2. Township / Range / Section _____

3. Mark location on map and attach to questionnaire _____

ELEVATION at project location: _____

Additional information (site conditions, directions, etc.): _____

The above information is correct to the best of my knowledge:

Signature of Owner / Designer: _____ Date: _____

~OFFICE USE ONLY below this line~

SEAO adopted snow load maps:

Elevation *: _____ Ground Snow Load*: _____ lbs. per sq. ft.

Approved By: _____ Date: _____

Owner notified by: _____ Date: _____

* Ground Snow Load is based on project location and elevation provided by applicant above and as derived from the Oregon Residential Specialty Code and the Snow Load Analysis of Oregon, published by the Structural Engineers of Oregon, revised 12/2007. Erroneous information by applicant may result in incorrect determination of Ground Snow Load. It has been recommended by BCD that Klamath County utilize the SEAO Snow Load mapping that the State has adopted.

We recognize some areas with anomalies in the snow load maps, and prior to development, recommend you seek advice from a local Design Professional regarding your specific development site prior to design and/or construction.

Thank you for your cooperation in this matter.

Allan Brown
Building Official
Klamath County