

# DESIGN CRITERIA FOR DWELLING IN TILLAMOOK COUNTY

BASED ON THE STATE OF OREGON, 2014 EDITION  
OREGON RESIDENTIAL SPECIALTY

Seismic Design Category (SDC): D2

Basic Wind Speed (mph): <sup>110</sup> 3-second gust, 90 fastest mile

Wind Exposure: See below for exposures B, C or D

Roof Snow Load Elevation (feet) <400 (psf): 25

Frost Depth (in): 12

## **Wind Exposure Categories:**

Wind Exposure B: Urban and suburban areas, wooded areas or other terrain with numerous closely spaced obstructions having the size of single-family dwellings or larger.

Wind Exposure C: Open terrain with scattered obstructions having heights generally less than 30 feet.

Wind Exposure D: Flat, unobstructed areas exposed to wind flowing over open water extending inland from the shoreline a distance of 1,500 feet.

**Footings:** All exterior footings and foundation systems shall extend 12" below the frost line.

**Fill Supporting Foundations and Slabs:** All footings shall be placed on undisturbed natural soils or engineered fill. Fills used to support the foundations of any building or structure shall be placed in accordance with accepted engineering practice. A soil investigation report and a report of satisfactory placement of fill from an Oregon certified qualified engineer or approved testing agency, acceptable to the Building Official, shall be required.

**Lateral Bracing:** A design professional (Architect, Engineer etc.) is required for any building or structure where the lateral bracing design does not follow prescriptive path per the current adopted Oregon Residential Specialty Code (ORSC).

**Irregular Buildings:** Prescriptive construction shall not be used for irregular structures located in Seismic Design Categories C, D1, and D2. Irregular portions of structures shall be designed in accordance with accepted engineering practice to the extent the irregular features affect the performance of the remaining structural system. When the forces associated with the irregularity are resisted by a structural system designed in accordance with accepted engineering practice, design of the remainder of the building shall be permitted using the provisions of this code. See ORSC Section, R301.2.2.2.5 for code specifics.