



DEPARTMENT OF COMMUNITY DEVELOPMENT

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DESIGN CRITERIA FOR JEFFERSON COUNTY

- Seismic Zone D2 - West End is D2 – R301.2(1)
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- Wind load are 110 MPH with 3 second gust
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- Wind load are 130 MPH with 3 second gust for West end of Jefferson County – R301.2(1)
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- Wind Exposure B, C, or D depending on site conditions, see reverse – R301.2.1.4
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- Soil bearing capacity 1,500 lbs unless there is a geotechnical report – R401.4.1, R403.1
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- Frost depth 12” below grade – 403.3(1)
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- Roof snow load 25 PSF - Brinnon & West End 30 PSF – R301.2(5)
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- ❖ West End is Forks, Queets, etc.
- Live loads for residential construction – R301.5

USE	LIVE LOAD lb per sq ft
Attics with limited storage	20
Decks	40
Exterior balconies	40
Guard and Handrails	200
Guard in-fill components	50
Floor Joist	40
Stairs	40

- Dead loads for sizing wood members 10 lbs (typical)
- For commercial construction live loads see table 1607.1 in the 2015 IBC or ask our plans examiner for details.
- For additional information on Design Criteria please refer to Chapter 16 In the 2015 IBC or ask our plans examiner for details.

Wind Exposure B, C, D (Site Specific)

301.2.1.4 Exposure Category

For each wind direction considered, an exposure category that adequately reflects the characteristics of ground surface irregularities shall be determined for the site at which the building or structure is to be constructed. For a site located in the transition zone between categories, the category resulting in the largest wind forces shall apply. Account shall be taken of variations in ground surface roughness that arise from natural topography and vegetation as well as from constructed features. For any given wind direction, the exposure in which a specific building or other structure is sited shall be assessed as being one of the following categories. When applying the simplified wind load method of Section 1609.6, a single exposure category shall be used based upon the most restrictive for any given wind direction.

1. **Exposure A.** This exposure category is no longer used in ASCE 7.
2. **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. Exposure B shall be assumed unless site meets the definition of another type of exposure.
3. **Exposure C.** Open terrain with scattered obstructions, including surface undulations or other irregularities, having heights generally less than 30 feet (9144 mm) extending more than 1,500 feet (457.2 m) from the building site in any quadrant. This exposure shall also apply to any building located within Exposure B-type terrain where the building is directly adjacent to open areas of Exposure C-type terrain in any quadrant for a distance of more than 600 feet (182.9 m). This category includes flat open country, grasslands and shorelines in hurricane-prone regions.
4. **Exposure D.** Flat, unobstructed areas exposed to wind flowing over open water (excluding shorelines in hurricane-prone regions) for a distance of at least 1 mile (1.61 km). Shorelines in Exposure D include inland waterways, the Great Lakes and coastal areas of California, Oregon, Washington and Alaska. This exposure shall apply only to those buildings and other structures exposed to the wind coming from over the water. Exposure D extends inland from the shoreline, a distance of 1,500 (460 m) or 10 times the height of the building or structure, whichever is greater.