



Climatic and Geographic Design Criteria

Community Development Department
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Table R301.2 (1) from 2015 IRC and from 2015 IBC General Design Criteria

Roof and Ground Snow Load	20 psf, (min. roof live load is 20 psf, also)
Ultimate Wind Speed and Exposure	110 mph (all parts of City are Exposure C)
Nominal Design Wind Speed	85 mph Wind Speed-up Req's of 1609.1.1.1 (IBC) Apply to all hillside & hilltop development
Seismic Design Category	C
Weathering	Severe (Ice Shield Underlayment is REQUIRED because of occasional severe conditions, see R905, but the underlayment is only applicable for roof slopes of 6:12 pitch or under, over 6:12 not needed.)
Frost Line Depth	24 inches
Termite Damage	Slight to Moderate
Decay Damage	None
2015 Washington State Energy Code Design Temperatures: Climate Zone 5B	
Mean Annual Design Temperature	50° F
Winter	11° F
Summer	101° F
Summer Degree Range	30° F (change)
Yearly Degree Average	53.9° F
Heating Degree Days	4895
Cooling Degree Days	830
Average # of Clear Days	225 (occurs primarily April 1 to November 1)
Air Freezing Index	808
Other Design Information:	
Latitude & Elevation above sea level	46° North & 350 feet
Flood Hazard Information:	
Date City of West Richland entered NFIP	September 30, 1981 Panel # 530014 0001 B
Date of currently adopted flood maps	September 30, 1981 (FIRM maps)