



CITY OF WEST RICHLAND – Building Division
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CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

Table R301.2(1) from 2006 IRC and from 2006 IBC General Design Criteria

Roof and Ground Snow Load	20 psf, (min. roof live load is 20 psf, also)
Wind Speed and Exposure	85 mph (all parts of City are Exposure C)
Basic Wind Speed (3-second gust wind speed)	85 mph
Seismic Design Category	C for IRC <u>ONLY</u> ; D for IBC engineering
Weathering	Severe (see Ice Shield for roofs below)
Frost Line Depth	24 inches
Termite Damage	Slight to Moderate
Decay Damage	None
Design Temperatures:	
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
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.	
Other Design Information:	
Latitude	46° North
Elevation above sea level	350 feet
Flood Hazard Information:	
Date City of Richland entered NFIP	1958
Date of currently adopted flood maps	March 1, 1984 (FIRM maps)