

CITY OF RICHLAND DEVELOPMENT SERVICES DEPARTMENT 625 Swift Boulevard, MS-35 Richland, WA 99352

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LOCAL DESIGN CRITERIA

COMMERCIAL & RESIDENTIAL: Any building under the IBC

For both commercial and residential buildings constructed under the IBC, the structural design criteria shall be performed in accordance with *IBC Chapter 16*, *ASCE 7-16*, and the project geotechnical investigation. **Please note that design criteria shall be site specific.** See IBC TABLE 1613.2.5 for determination of Seismic Design Category.

RESIDENTIAL: Single Family, Two Family, and Townhomes under the IRC

For residential buildings and structures constructed under the IRC, the climatic and geographic design criteria shall be as provided in the completed *IRC Table R301.2(1)* provided below.

IRC TABLE R301.2(1)			
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA			
Ground Snow Load		20 psf	
Wind Design	Speed (mph)	V _{ult} = 110	
	Topographic Effects	No	
	Exposure Category	C	
	Special Wind Region	No	
Seismic Design Category		C – (D for commercial)	
Subject to Damage From	Weathering	Severe	
	Frost Line Depth	24 inches	
	Termite	No	
Winter Design Temperature		2°	
Ice Barrier Underlayment Required		Yes	
Flood Hazards		Entered March 1, 1984 (See GIS Maps)	
Air Freezing index		661	
Mean Annual Temperature		54.6°	

IRC TABLE R301.2(1)			
ACCA MANUAL J DESIGN CRITERIA			
Elevation	531 feet		
Latitude	46°17' North		
Winter Heating	11°F		
Summer Cooling	96°F		
Altitude Correction Factor	1.0		
Indoor Design Temperature	70°F		
Design Temperature Cooling	75°F		
Heating Temperature Difference	59°F		
Cooling Temperature Difference	21°F		
Wind Velocity Heating	15 MPH		
Wind Velocity Cooling	7.5 MPH		
Coincident Wet Bulb	67°F		
Daily Range	High		
Winter Humidity	N/A		
Summer Humidity	-11 (grains of moisture)		