



**COMMUNITY DEVELOPMENT
DEPARTMENT
BUILDING SERVICES DIVISION**

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Residential Design Criteria

The following establishes the basic climatic and geographic design criteria to assist in designing buildings and structures using the 2015 International Residential Code (IRC).

**Table R301.2(1)
CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA**

Ground Snow Load	WIND DESIGN				Seismic Design Category	Subject to Damage From				Winter Design Temp (°F)	Ice Shield Underlayment Required	Flood Hazards	Air Freezing Index	Mean Annual Temp (°F)
	Wind Speed (mph)	Topographic effects	Special Wind region	Wind-borne debris zone		Weathering	Frost Line Depth	Termite	Decay					
20	110 (mostly Exp. B)	NO	NO	NO	D ₂	Moderate	6"	Slight-Mod	Slight-Mod	26	No	1983FIRM (constr. N/A in 100yr. flood zone)	117	51.2

For SI: 1 pound per square foot = 0.0479 kPa, 1 mile per hour = 0.447 m/s.

Additional design information for using the 2015 International Residential Code:

- **General Properties of Soils:**
 - Soils Site Classification: Site Class “D” may be assumed soil properties.
 - Soils Bearing Capacity: Bearing capacity of 2000 psf may be assumed.
- **Foundation Drainage:**
 - Perimeter footing drains should be assumed as required, without soils study.
 - Slope away from foundation is required for all structures: min. 6” fall in 10’.
- **Other:**
 - Specific setback requirements, height and bulk restrictions, and other zoning requirements will apply to each project. Contact the Planning or Building Services Divisions for more information, or access the Residential zoning code requirements, DMC 25.20 online via the City’s website. **(NWL Owners should also contact ROA.)**