TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

ROOF SNOW LOAD ^a (psf)	WIND DESIGN				SEISMIC DESIGN	SUBJECT TO DAMAGE FROM			OUTDOOR DESIGN	ICE BARRIER UNDERLAYMENT	FLOOD HAZARD ^e	AIR FREZING	MEAN ANNUAL
	Speed ^b (mph)	Topographic effects ^c	Special wind region	Windborne debris zone	CATEGORY	Weatheringd	Frost line depth	Termite	TEMP (F) - Heat/Cool	REQUIRED	HAZARD	INDEX	TEMP
25	110	Yes	No	No	D2	Moderate	12"	Slight to Moderate	83/24	No	N.A.	113	53
MANUAL J DESIGN CRITERIA													
Elevation			Latitude	Winter heating	Summer cooling	Altitude correction factor		Indoor design temperature		Design temperature cooling		Heating temperature difference	
338 feet			47°34'39''	72°F max	75°F min	0.99		72°F		75°F		48°F	
Cooling temperature difference			Wind velocity heating	Wind velocity cooling	Coincident wet bulb	Daily range		Winter humidity		Summer humidity			
8°F			N.A.	N.A.	66	Medium		75%		68%			

- a. This is the minimum roof snow load. When using this snow load it will be left to the engineer's judgment whether to consider drift or sliding snow. However, rain on snow surcharge of 5 psf must be considered for roof slopes less than 5 degrees.
- b. The 110 mph Ultimate Design Wind Speed (3-second gust) as adopted by the 2018 IRC/ASCE 7-10 (or if using the IBC for structural design, the 98 mph Basic Design Wind Speed as adopted by the 2018 IBC/ASCE 7-16 may be used).
- c. Wind exposure category and Topographic effects (Wind Speed-up Kzt factor) shall be determined on a site-specific basis by the Engineer of Record (components and cladding need not consider topographic effects unless otherwise determined by the engineer of record).
- d. Weathering may require a higher strength concrete or grade of masonry than necessary to satisfy the structural requirements of this code. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652.
- e. The City of Mercer Island participates in the National Flood Insurance Program (NFIP); Regular Program (No Special Flood Hazard Area). Further NFIP participation information: CID 530083, Initial FHBM Identified 06/28/74, Initial FIRM Identified 05/16/95, Current Effective Map Date (NSFHA), Reg-Emer Date 06/30/97, 53033C0654G effective 8/19/2020.