

Town of Tazewell Climate and Geographic Design Criteria

INFORMATION FOR DESIGNERS - (2021 Virginia Construction Code/Virginia Residential Code)

Residential 1 & 2 family Construction Design Parameters - IRC Table R301.2 (1)		
Type		Criteria
Ground Snow Load		20 PSF, >2500' 25
Wind Design	Speed (MPH)	116 V _(ult)
	Topographic Effects	No
	Special Wind Region	YES
	Wind borne Debris Zone	No
Seismic Design Category		B
Subject to Damage From	Weathering	Severe
	Frost Line Depth	18"
	Termite	Moderate-Heavy
Frost Depth		18"
Winter Design Temperature		16 ⁰
Ice Barrier Underlayment Required		Yes
Air Freezing Index -- Attic R49 /Floor R30/ Walls R20		≤ 32 ⁰ F
Mean Annual Temperature		51 ⁰
Commercial Design Parameters		
Ground Snow Load		20 PSF, >2500' 25
Wind Speed: IBC/VCC Section 1609	Risk I	105 (V _{ult})
	Risk II	115 (V _{ult})
	Risk III & IV	120 (V _{ult})
Seismic Design (Structural Response Acceleration)		S _s %g: 28%
		S ₁ %g: 7%
Climate Zone		6 B
Wind Exposure - (VCC 1609.4)		Category B

Virginia Construction Code	2021
Virginia Residential Code	2021
Virginia Plumbing Code	2021
Virginia Mechanical Code	2021
Virginia Fuel Gas Code	2021
Virginia Existing Building Code	2021
Energy Conservation Code	2021
Virginia Maintenance Code	2021
Virginia Statewide Fire Prevention Code	2021
NFPA 70 National Electrical Code	2017
NFPA 13 Installation of Sprinklers	2021
NFPA 72 National Fire Alarm Code	2021
ANSI A117.1 Accessible and Usable Buildings	2017