



Information for Designers

Local Design Criteria for the City of Galax

This information is provided for use by builders and designers and is in accordance with the 2021 editions of the Virginia USBC, the International Building Code, and the International Residential Code.

Residential 1 & 2 Family Construction Design Parameters

Ground Snow Load	Wind Speed MPH V ^{3s}	Seismic Design Category	Subject to Damage From				Winter Design Temp	Ice Shield Req?	Flood Hazards
			Weathering	Frost Depth	Termite	Decay			
30 psf	110	B	Severe	18"	Moderate-Heavy	Slight-Moderate	0°F	Yes	1612.1

Commercial Construction Design Parameters

Ground Snow Load	Wind Speed MPH V _{3s}	Spectral Response Acceleration		Frost Depth	Weathering	Flood Hazards
		S _s %g	S ₁ %g			
43 psf	110	28%	8%	18"	Severe	1612.1

Additional Design Information

Current Code Editions

2021 Virginia Uniform Statewide Building Code

Referenced Codes:

- 2021 International Building Code
- 2021 International Plumbing Code
- 2021 International Mechanical Code
- 2021 International Fuel Gas Code
- 2021 International Energy Conservation Code
- 2021 International Residential Code
- 2021 International Existing Building Code
- 2009 ANSI A117.1 Accessible & Usable Buildings & Facilities
- 2021 NFPA 13 Standard for the Installation of Sprinklers
- 2021 NFPA 72 National Fire Alarm Code
- 2020 NFPA 70 National Electrical Code

Miscellaneous Data

- Wind Exposure (IBC Sec. 1609.4) – Category B
- Yearly Heating Degree Days – 228
- Yearly Cooling Degree Days – 533
- Climate Zone – 4
- Mean Annual Temperature – 50°
- Air Freezing Index – 1000
- Latitude: 36° 39.6744' N
- Longitude: 80° 55.4382' W
- Snow Loads – ASCE 7-22

Contact Information

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