



Information for Designers

Local Design Criteria for Roanoke City, Salem City, Roanoke County and Town of Vinton
This information is provided for use by builders and designers and is in accordance with the current editions of the Virginia Construction Code and the Virginia Residential Code.

Residential 1&2 Family Construction Design Parameters IRC Table R301.2(1)

	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			
Roanoke City	30 psf	90	B	Severe	18"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 1
Roanoke County	30 psf	90	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 3
Salem	30 psf	115	B	Severe	24"	Moderate - Heavy	Slight - Moderate	20°F	No	Note 2
Town of Vinton	30 psf	90	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 4

Commercial Construction Design Parameters VCC Chapter 16 and ASCE 7

	Ground Snow Load	Wind Speed MPH V_{3s}	Spectral Response Acceleration		Frost Depth	Weathering	Flood Hazards
			S_s %g	S_1 %g			
Roanoke City	30 psf	90	28 %*	7%*	18"	Severe	Note 1
Roanoke County	30 psf	90	28 %*	7%*	24"	Severe	Note 3
Salem	30 psf	115	28 %*	7%*	24"	Severe	Note 2
Town of Vinton	30 psf	90	28 %*	7%*	24"	Severe	Note 4

*Interpolated values from IBC figures 1613.5(1) and 1613.5(2); reference IBC tables 1613.5.6(1) and 1613.5.6(2) for seismic design category. More conservative spectral response coefficients are permitted.

Additional Design Information

Current Code Editions	Miscellaneous Data
Virginia Uniform Statewide Building Code Effective 7/1/2022 Referenced Codes: <ul style="list-style-type: none"> ■ 2018 International Building Code ■ 2018 International Plumbing Code ■ 2018 International Mechanical Code ■ 2018 International Fuel Gas Code ■ 2018 International Energy Conservation Code ■ 2018 International Residential Code ■ 2018 International Existing Building Code ■ 2018 International Fire Code ▪ 2009 ANSI A117.1 Accessible & Usable Buildings & Facilities ▪ 2010 NFPA 13 Standard for the Installation of Sprinklers ▪ 2010 NFPA 72 National Fire Alarm Code ▪ 2014 NFPA 70 National Electrical Code 	<ul style="list-style-type: none"> ■ Wind Exposure (VCC Sec. 1609.4) - Category B ■ Yearly Heating Degree Days – 4,284 ■ Yearly Cooling Degree Days – 1,134 ■ Climate Zone – 4 ■ Mean Annual Temperature – 54° ■ Air Freezing Index – 250 ■ Latitude: 37° 19' N ■ Longitude: 79° 58' W ▪ Soil Class: SC, ML-CL & Inorganic CL 60 ▪ 1500 psf Shrink/Swell

Contact Information

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Notes:

- Entered NFIP - 1974 Current FIRM adopted – 09/28/2007 Community Number - 510130 (Roanoke City)
- Entered NFIP - 1974 Current FIRM adopted – 09/28/2007 Community Number - 510141 (Salem City)
- Entered NFIP - 1974 Current FIRM adopted – 09/28/2007 Community Number - 510190 (Roanoke County)
- Entered NFIP - 1974 Current FIRM adopted – 09/28/2007 Community Number - 510131 (Town of Vinton)

