



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 2018 editions of the Virginia USBC, the International Building Code and the International 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	90	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°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 IBC Chapter 16 and ASCE 7-2005

	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	90	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
2018 Virginia Uniform Statewide Building Code Effective 7/14/15 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 ▪ 2003 ANSI A117.1 Accessible & Usable Buildings & Facilities ▪ 2016 NFPA 13 Standard for the Installation of Sprinklers ▪ 2016 NFPA 72 National Fire Alarm Code ▪ 2017 NFPA 70 National Electrical Code 	<ul style="list-style-type: none"> ▪ Wind Exposure (IBC Sec. 1609.4) - Category B ▪ Yearly Heating Degree Days – 4,150 ▪ Yearly Cooling Degree Days – 1,154 ▪ Climate Zone – 4 ▪ Mean Annual Temperature – 55° ▪ Air Freezing Index – 250 ▪ Latitude: 37° 19' N ▪ Longitude: 79° 58' W

Contact Information

City of Roanoke	City of Salem	Roanoke County – Town of Vinton
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Notes:

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

Form Revised: July 2022