



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 adopted 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	*Use link	B	Severe	18"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 1
Roanoke County	30 psf	*Use link	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 3
Salem	30 psf	*Use link	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 2
Town of Vinton	30 psf	*Use link	B	Severe	24"	Moderate - Heavy	Slight - Moderate	16°F	No	Note 4

Commercial Construction Design Parameters IBC Chapter 16 and ASCE 7-2010

	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	*Use link	*Use link below	*Use link below	18"	Severe	Note 1
Roanoke County	30 psf	*Use link	*Use link below	*Use link below	24"	Severe	Note 3
Salem	30 psf	*Use link	*Use link below	*Use link below	24"	Severe	Note 2
Town of Vinton	30 psf	*Use link	*Use link below	*Use link below	24"	Severe	Note 4

*Use the following link for wind speed and Seismic design by address - <https://hazards.atcouncil.org/#/> or use the following link for seismic design data by address - <https://seismicmaps.org/>

Additional Design Information

Current Code Editions	Miscellaneous Data
2015 Virginia Uniform Statewide Building Code Effective 9/04/2018 Referenced Codes: <ul style="list-style-type: none"> ▪ 2015 International Building Code ▪ 2015 International Plumbing Code ▪ 2015 International Mechanical Code ▪ 2015 International Fuel Gas Code ▪ 2015 International Energy Conservation Code ▪ 2015 International Residential Code ▪ 2015 International Existing Building Code ▪ 2015 International Fire Code ▪ 2009 ANSI A117.1 Accessible & Usable Buildings & Facilities ▪ 2013 NFPA 13 Standard for the Installation of Sprinklers ▪ 2013 NFPA 72 National Fire Alarm Code ▪ 2014 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 ▪ Soil Class: SC, ML-CL & Inorganic CL 60 ▪ 1500 psf Shrink/Swell

Contact Information

City of Roanoke	City of Salem	Roanoke County – Town of Vinton
Neil M. Holland Building Commissioner City of Roanoke 215 Church Ave, SW Roanoke, VA 24011 (540) 853-1117 neil.holland@roanokeva.gov	Troy Loving Building Official City of Salem 21 S.Bruffey St Salem, VA 24153 (540) 375-3036 Fax: 375-4042 tloving@salemva.gov	Morgan Yates Building Commissioner Roanoke County P.O. Box 29800 Roanoke, VA 24018 (540) 772-2065 Fax: 772-2108 myates@roanokecountyva.gov

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)

Vinton) Form Revised: Jan 2015