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 2012 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)

<table>
<thead>
<tr>
<th>Ground Snow Load</th>
<th>Wind Speed MPH V₃₀</th>
<th>Seismic Design Category</th>
<th>Subject to Damage From</th>
<th>Weathering</th>
<th>Frost Depth</th>
<th>Termite</th>
<th>Decay</th>
<th>Winter Design Temp</th>
<th>Ice Shield Req?</th>
<th>Flood Hazards</th>
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</thead>
<tbody>
<tr>
<td>Franklin County</td>
<td>25 psf</td>
<td>90</td>
<td>B</td>
<td>Severe</td>
<td>18°</td>
<td>Moderate - Heavy</td>
<td>Slight - Moderate</td>
<td>16°F</td>
<td>No</td>
<td>Note 4</td>
</tr>
<tr>
<td>Roanoke City</td>
<td>30 psf</td>
<td>90</td>
<td>B</td>
<td>Severe</td>
<td>24°</td>
<td>Moderate - Heavy</td>
<td>Slight - Moderate</td>
<td>16°F</td>
<td>No</td>
<td>Note 1</td>
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<td>B</td>
<td>Severe</td>
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<td>Moderate - Heavy</td>
<td>Slight - Moderate</td>
<td>16°F</td>
<td>No</td>
<td>Note 3</td>
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<tr>
<td>Salem</td>
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<td>90</td>
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<td>24°</td>
<td>Moderate - Heavy</td>
<td>Slight - Moderate</td>
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<td>Note 2</td>
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</table>

Commercial Construction Design Parameters
IBC Chapter 16 and ASCE 7-2005

<table>
<thead>
<tr>
<th>Ground Snow Load</th>
<th>Wind Speed MPH V₃₀</th>
<th>Spectral Response Acceleration</th>
<th>Froth Depth</th>
<th>Weathering</th>
<th>Flood Hazards</th>
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</thead>
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<td>Franklin County</td>
<td>25 psf</td>
<td>90</td>
<td>28 %*</td>
<td>7%*</td>
<td>18&quot;</td>
</tr>
<tr>
<td>Roanoke City</td>
<td>30 psf</td>
<td>90</td>
<td>28 %*</td>
<td>7%*</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Roanoke County</td>
<td>30 psf</td>
<td>90</td>
<td>28 %*</td>
<td>7%*</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Salem</td>
<td>30 psf</td>
<td>90</td>
<td>28 %*</td>
<td>7%*</td>
<td>24&quot;</td>
</tr>
</tbody>
</table>

*Interpolated values from IBC figures 1613.5(1) and 1613.5(2); reference IBC tables 1613.3.5(1) and 1613.3.5(2) for seismic design category. More conservative spectral response coefficients are permitted.

Additional Design Information

Current Code Editions
- 2012 Virginia Uniform Statewide Building Code Effective 7/14/2014
- 2012 International Building Code
- 2012 International Plumbing Code
- 2012 International Mechanical Code
- 2012 International Fuel Gas Code
- 2012 International Energy Conservation Code
- 2012 International Residential Code
- 2012 International Existing Building Code
- 2003 ANSI A117.1 Accessible & Usable Buildings & Facilities
- 2007 NFPA 13 Standard for the Installation of Sprinklers
- 2007 NFPA 72 National Fire Alarm Code
- 2011 NFPA 70 National Electrical Code

Miscellaneous Data
- 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
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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)
4. Entered NFIP - 1974 Current FIRM adopted – 09/28/2007 Community Number - 510060 (Franklin County)

Form Revised: 12/2014