



Madison County Building Department

Phone: (540) 948-6102; Website: www.madisonco.virginia.gov

Local Design Criteria

2018 Virginia Residential Code

Table R301.2 (1)

Frost Line Depth	18 inches
Ground Snow Load	30 PSF
Wind Speed (Vult)	110 MPH
Special Wind Region	No
Windborne Debris Zone	No
Topographical Effects	Yes
Residential Seismic Design Category	B
Seismic MCER ground motion (period=0.2s)	0.165
Seismic MCER ground motion (period=1.0s)	0.061
Weather probability for concrete	Severe
Termite infestation probability	Moderate to severe
Decay probability	Moderate
Ice barrier required	Yes
Winter Design Temperature	10 degrees (F)
Air Freezing Index	500
Mean Annual Temperature	53 degrees (F)
Flood Hazards (FEMA SFHA)	Yes: Zones A, AE & un-shaded-X
Initial Entry into the NFIP	April 3, 1989
Current effective date of FIS & FIRM	September 18, 2020

Note: Madison County has areas of suspected and-or areas of known Expansive (shrink-swell) soils. Please see the Expansive Soils Policy on the Forms page.

Note: per the 2018 Virginia USBC:

- Duct Leakage (pressure) Testing is mandatory
- Building Envelope Leakage (blower door) Testing is mandatory

The Madison County GIS has separate layers for Expansive (shrink-swell) Soils and FEMA designated *special flood hazard areas* (flood zones).

The soil bearing capacity for Madison County shall be 2000 PSF; unless a site specific soils test indicates otherwise.