Design Criteria

Residential Design Criteria*

Wind Speed (3sec gust) 117 \( \text{V}_{\text{ult}} \)  Figure R301.2(4)
Wind Speed 93 \( \text{V}_{\text{and}} \)  Table R301.2.1.3
Frost Line 12 inches – Min.
Seismic A  Figure R301.2(2)
Ground Snow Load 10  Figure R301.2(5)
Weathering Moderate Figure R301.2(3)
Termite Infestation Moderate To Heavy  Figure R301.2(6)

Winter design temperature 22°F **
Heating Degree Days 3421 **
Ice Barrier underlayment required No
Flood hazards Aug. 3, 2015 City Code
Base 8ft + 3ft

Air freezing index 150
Mean annual temperature 59 F
Climate Zone 4A Table N1101.7

*Design criteria for buildings constructed in accordance with the Virginia Residential Code,

** Contained in Appendix D, Virginia Plumbing Code 2015

For all other buildings, see Chapter 16 of the Virginia Construction Code.

Doug Smith