



# Bradley County Planning & Inspections Building Department

## *Climate and Geographic Design Criteria Bradley County*

### Insulation and Fenestration Requirements

### Code Reference

• Climate Zone:	Zone 4A (except marine) Moist	2009 IECC Table 402.1.1
• Fenestration U-factor:	0.4	2009 IECC Table 402.1.1
• Skylight U-factor:	0.6	2009 IECC Table 402.1.1
• Glazed Fenestration SHGC:	NR	2009 IECC Table 402.1.1
• Ceiling R-Value:	R-38 (R-30 on slanted ceilings)	2009 IECC Table 402.1.1
• Wood Frame Wall R-Value:	R-13	2009 IECC Table 402.1.1
• Mass Wall R-Value:	R-5	2009 IECC Table 402.1.1
• Floor R-Value:	R-19	2009 IECC Table 402.1.1
• Basement Wall R-Value:	R-10 or R-13 (R-10 below ground)	2009 IECC Table 402.1.1
• Slab R-Value & Depth:	R-10 to 2 feet below grade	2009 IECC Table 402.1.1
• Crawl Space Wall R-Value:	R-10 or R-13 (10 below ground)	2009 IECC Table 402.1.1

### Structure Design

• Ground Snow Load:	10 Lb/sq ft	2012 IBC Section 1603.1.3
• Wind Load:	90 mph	2012 IRC Figure 1608.2
• Exposure Category:	B	2012 IBC Figure 1609 A
• Seismic Design Category:	C	2012 IRC Table 1609.3.1
• Mapped Acceleration Parameters:	Ss = 40	2012 IBC Section 1609.4.3
• Mapped Acceleration Parameters:	S1 = 10	2012 IRC Figure R301.2(2)
		2012 IBC Figure 1613.5 (1)
		2012 IBC Figure 1613.5 (2)

### Subject to Damage From

• Weathering:	Moderate to Severe	2012 IRC Figure R301.2(3)
• Frost line:	Depth: 11", 12" minimum	2012 IPC Figure 305.6(3)
• Termite:	Moderate to Heavy	2012 IRC Figure R301.2(6)
• Winter Design Temperature:	20	2012 IRC Table R301.2(1)e
• Ice Barrier Underlayment Requirement:	None	2012 IPC Table D101
• Flood Hazards:	Check Flood Hazard Maps	2012 IRC Table R301.2(1)h
• Air Freezing:	Baseline 250	2012 IRC Table R301.2(1)g
		2012 IRC Figure R403.3(2)
• Mean Annual Temperature	58.8 degrees Fahrenheit	2012 IRC Figure R403.3(2)
		2012 IRC Table R301.2(1)j

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155 Broad Street NW  
Cleveland, TN 37311

P.O. Box 1167, 37364-1167

Office: 423-728-7106

Mobile: 423-242-8868

Fax: 423-478-8884

[bradleyinspections@bradleycountyttn.gov](mailto:bradleyinspections@bradleycountyttn.gov)

<https://www.bradleycountyttn.gov>