

502 GTD THERMAL CERTIFICATION

New Construction

BORROWER(S): _____

PROPERTY ADDRESS _____

PROPERTY COUNTY _____

I have inspected the above property and certify the following:

Dwelling:

_____ Complies with the thermal performance standards identified in the 2006 International Energy Conservation Code, in accordance with the Energy Independence and Security Act of 2007. The required thermal standards can be determined by reviewing Table 1 on the reverse to select the climate zone for the County where the dwelling is located and then reviewing Table 2 to identifying the correct R-values corresponding to the County's specific climate zone.

Windows:

_____ Double glazed (thermal pane)

_____ Single glazed, with storm windows

Exterior Doors:

_____ Insulated _____ Solid-core, with a storm-type door

Vapor Barrier:

_____ A moisture vapor barrier consisting of at least 6-mil thickness polyethylene sheeting is properly installed throughout the crawl space.

Inspector's Signature

Date

Inspector's Name (Please Print)

Telephone Number

Inspector's Address (Street or P.O. Box, City, State, Zip Code)

Table 1. Tennessee Counties and Climate Zones¹

County	Zone	County	Zone	County	Zone	County	Zone
Anderson,	4	Fentress	4	Lauderdale	3	Roane	4
Bedford	4	Franklin	4	Lawrence	4	Robertson	4
Benton	4	Gibson	4	Lewis	4	Rutherford	4
Bledsoe	4	Giles	4	Lincoln	4	Scott	4
Blount	4	Grainger	4	Loudon	4	Sequatchie	4
Bradley	4	Greene	4	Macon	4	Sevier	4
Campbell	4	Grundy	4	Madison	3	Shelby	3
Cannon	4	Hamblen	4	Marion	4	Smith	4
Carroll	4	Hamilton	4	Marshall	4	Stewart	4
Carter	4	Hancock	4	Maury	4	Sullivan	4
Cheatham	4	Hardeman	3	Mcminn	4	Sumner	4
Chester	3	Hardin	3	Mcnairy	3	Tipton	3
Claiborne	4	Hawkins	4	Meigs	4	Trousdale	4
Clay	4	Haywood	3	Monroe	4	Unicoi	4
Cocke	4	Henderson	3	Montgomery	4	Union	4
Coffee	4	Henry	4	Moore	4	Van Buren	4
Crockett	3	Hickman	4	Morgan	4	Warren	4
Cumberland	4	Houston	4	Obion	4	Washington	4
Davidson	4	Humphreys	4	Overton	4	Wayne	4
De Kalb	4	Jackson	4	Perry	4	Weakley	4
Decatur	4	Jefferson	4	Pickett	4	White	4
Dickson	4	Johnson	4	Polk	4	Williamson	4
Dyer	3	Knox	4	Putnam	4	Wilson	4
Fayette	3	Lake	3	Rhea	4		

Table 2. Minimum Required Thermal Performance (R-Values)^{1,2}

Climate Zone	Ceilings	Walls	Floors	Basement Walls ^{4,5}	Slab Edge R-Value, Depth ⁶	Crawl Space Walls ^{4,7}
3	R-30	R-13	R-19	0	0	R-5/R-13
4	R-38 ³	R-13	R-19	R-10/R-13	R-10, 2 feet	R-10/R-13

Notes

¹ Excerpted from the 2006 International Energy Conservation Code

² R-Values are minimums.

³ R-30 shall be deemed to satisfy the requirement for R-38 whenever the full height of uncompressed R-30 insulation extends over the wall top plate at all eaves.

⁴ The first R-Value applies to continuous insulation without stud cavities. The second R-Value applies to insulation installed in framing cavities (between studs). Either insulation meets the requirement.

⁵ Basement walls, when the space is heated and/or air conditioned, must be insulated from the top of the basement wall down to 10 feet below the outside grade or to the basement floor, whichever is less.

⁶ An additional R-5 shall be added to the required Slab Edge R-Value for heated slabs.

⁷ The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement) shall be ventilated in accordance with R408.1. **Crawl space wall insulation or insulating the cells of concrete masonry units as an alternative to floor insulation is only allowable in unvented crawl spaces, in accordance with N1102.2.8.** Unvented crawl spaces shall have an impermeable 6-mil plastic vapor barrier installed with taped seams lapped at least 6-inches, and a continuous mechanical exhaust ventilation of at least 1 cfm or they receive a supply of conditioned air in accordance with R408.3.