

AFFIDAVIT for Residential Dwellings
Compliance with the Georgia State Energy Code
*(2006 International Energy Conservation Code with
2008 Georgia State Supplements and Amendments)*

GWINNETT COUNTY
DEPARTMENT OF PLANNING & DEVELOPMENT

NOTICE: This form shall be completed, signed and submitted to the Building Permits Section at the time a building permit is obtained from Gwinnett County, Georgia.

BUILDING PERMIT NUMBER: _____ DATE: _____

SUBDIVISION: _____ LOT: _____

JOB SITE ADDRESS: _____

CONTRACTOR/BUILDER: _____ LICENSE # _____

The 2006 International Energy Conservation Code, published by the International Codes Council, when used in conjunction with the Georgia State Supplements and Amendments, shall constitute the official Georgia State Energy Code for Buildings. This code establishes minimum regulations for energy-efficient design, erection, construction, and/or alternation of 1 & 2 family dwellings. Compliance with the minimum requirements of the Georgia State Energy Code by designers and builders is mandatory. **All information requested on this AFFIDAVIT form shall be provided. References to "see attached" are not acceptable and approved energy code compliance tables and forms shall be listed by title.**

I do certify that the above permitted structure shall be built in accordance with the minimum requirements of the Georgia State Energy Code for 1 & 2 Family Dwelling Buildings using the following method:

Please select one of the compliance methods as follows:

- GA State Amendments Table 402.1.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT** (Climate Zone 3).
- RECA IECC Compliance Guide for Homes in Georgia** based on **GA State Georgia Amendments Table 402.1.1** (Climate Zone 3).
- RESCheck** – Refer to **GA State Amendments Table 402.7.1** for minimum R-values and maximum U-factors/SHGC allowed in RESCheck.
- An approved Energy Code Compliance Table by _____
- IECC Section 404 Simulated Performance Alternative** using: **REMRate, Energy Gauge.**

The following are additional requirements of the energy code as amended by the State of Georgia:

- Heating and cooling sized per ACCA Manual J and Duct Design per ACCA Manual D with R-8 Ducts in attics (required).
- A permanent certificate per **GA State Amendments section 401.3** shall be readily accessible and shall be posted on or near the electrical distribution panel or air handler – **Refer to GA State Supplements and Amendments Appendix E.**
- Air Barriers installed on all vertical sides of insulation (except behind tubs/showers and fire place chase).
- Air barrier at eaves to prevent "wind washing".

Indicate with "X" the following applicable items:

- Unvented/sealed crawl space shall comply with **GA State Amendments section 402.2.8** (crawl space walls).
- Pull down/disappearing stairs in conditioned space weather-stripped with U-0.35 (R-3) – Refer to **GA State Amendments section 402.3.7.**
- Scuttle Hole in conditioned space to attic R-19 – Refer to **GA State Amendments section 402.3.7** (weather-stripped access doors).

List following R-values:

Flat CLG R-____; sloped CLG/RFG R-____; Wall Cavity R-____; Sheathing R-____; Mass Wall Basement (min R-5) R-____
Attic Knee Wall (Min R-18) R-____; Floor over unconditioned space R-____;
Number of stories____; Conditioned basement:____Y____N; Slab-on-grade:____Y____N
Window U-factor____; Window SHGC____; Heating Efficiency %____; Cooling Efficiency SEER____
Any Comments:_____

SIGNATURE (original): _____ PRINTED NAME: _____

COMPANY NAME: _____

ADDRESS: _____ CITY: _____ ZIP: _____

County Staff Signature: _____ Date: _____

*Add new Table 402.7.1, 'Summary Of Minimum Insulation R-Values And Maximum U-Factors For Envelope Components', as follows:

**TABLE 402.7.1
SUMMARY OF MINIMUM INSULATION R-VALUES
AND MAXIMUM U-FACTORS FOR ENVELOPE COMPONENTS**

ELEMENT ¹	MODE	MINIMUM R-VALUE OR MAXIMUM U-FACTOR
Walls Stud	Heating or Cooling	R-13
Walls Masonry/CMU ²	Heating or Cooling	R-5
Attic Kneewalls ³	Heating or Cooling	R-18
Roof/Ceiling	Heating or Cooling	R-19
Floor Over Unheated Spaces	Heating or Cooling	R-13
Windows ⁴	Heating or Cooling	U-0.65 with Maximum 0.40 SHGC

1. Weather-stripped access doors (maximum $U-0.35$), weather-stripped hatches/scuttle hole covers (minimum $R-19$ insulation or maximum $U-0.05$), or weather-stripped disappearing/pull-down stairs (maximum $U-0.35$) shall be deemed to meet the minimum insulation R -values of any element.

2. Any mass wall above or below grade.

Exception: Climate Zone 2.

3. See definition of 'ATTIC KNEEWALL' in these Georgia State Supplements and Amendments.

4. Maximum window U -factor shall be 0.65 and maximum SHGC shall be 0.40.

(Effective January 1, 2008)

SECTION 403 SYSTEMS (Mandatory)

*Revise Section 403.2.1, 'Insulation', to read as follows:

403.2.1 Insulation. Supply and return ducts in unconditioned attics and exterior locations shall be insulated to a minimum of $R-8$. All other ducts located outside the building thermal envelope shall be insulated to a minimum of $R-6$.

Exception: Ducts or portions thereof located completely inside the building thermal envelope.

(Effective January 1, 2008)

*Revise Section 403.2.2, 'Sealing', to read as follows:

403.2.2 Sealing. All ducts, air handlers, filter boxes, and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section M1601.3.1 of the *International Residential Code*. Air handlers with a manufacturer's designation for an air leakage of no more than 2 percent of the design air flow rate when tested at an air pressure of 1-inch water gauge when all air inlets, air outlets, and condensate drain port(s) are sealed shall be deemed sealed. Air handlers with filter boxes shall be tested with the filter box in place.

(Effective January 1, 2008)

*Delete Tables 402.1.1, 'Insulation And Fenestration Requirements By Component^a', and 402.1.3, 'Equivalent U-Factors^a', and substitute by adding new Table 402.1.1, 'Insulation And Fenestration Requirements By Component^a', as follows:

**TABLE 402.1.1
INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT^a**

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	GLAZED FENESTRATION SHGC ^b	CEILING R-VALUE ^c	WOOD FRAME WALL R-VALUE ^d	ATTIC KNEEWALL ^e
2	0.65	0.75	0.40	R-30 or U-0.030	R-13 or U-0.082	R-18 or U-0.065
3	0.65	0.65	0.40	R-30 or U-0.030	R-13 or U-0.082	R-18 or U-0.065
4	0.40	0.60	0.40	R-38 or U-0.025	R-13 or U-0.082	R-18 or U-0.065

CLIMATE ZONE	MASS WALL R-VALUE	FLOOR R-VALUE ^f	BASEMENT WALL R-VALUE ^{g,j}	SLAB R-VALUE AND DEPTH ^h	CRAWL SPACE WALL R-VALUE ^{i,j}
2	R-5 or U-0.141	R-13 or U-0.064	R-0 or U-0.36	0	R-0 or U-0.477
3	R-5 or U-0.141	R-19 or U-0.047	5/13 or U-0.136	0	5/13 or U-0.136
4	R-5 or U-0.141	R-19 or U-0.047	5/13 or U-0.136	0	5/13 or U-0.136

For SI: 1 foot = 304.8 mm.

- a. R-values are minimums. U-factors and SHGC are maximums. R-19 shall be permitted to be compressed into a 2 × 6 cavity. Nonfenestration U-factors shall be obtained from measurement, calculation or an approved source.
- b. The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration, including doors 50 percent or more glazed. One door or window (or up to 15 square feet [1.4 m²] of glazed fenestration) may be exempt from meeting the U-factor and SHGC.
- c. Ends and sides of ceiling joist cavity shall be blocked with an approved air barrier. Flat ceiling insulation shall be in contact with interior side of ceiling. Ceiling areas without attic space in Climate Zone 4 may be R-30 (maximum of 25 percent of ceiling area). For HVAC platform and floored access path areas, ceiling insulation may be reduced to R-19.
- d. All vertical insulation shall be in substantial contact with an air barrier on all six (6) sides.

Exceptions:

1. Unfinished basements (insulation shall be restrained to stay in place).
 2. On interior side of wall in Climate Zones 2 and 3 behind tubs, showers and fireplaces (insulation shall be restrained to stay in place).
- e. R-13 + R-5, R-15 + R-3, or R-19 compressed into a 2 × 6 cavity is deemed to meet R-18 minimum requirement. Attic side shall have a sealed air barrier.
 - f. Floor insulation shall be installed to maintain permanent contact with the underside of the subfloor decking, and insulation ends shall be blocked. Cantilevered floors shall be R-30 and band area above exterior wall shall be blocked.
 - g. R-5 is mass and R-13 is cavity and band. For basements with no direct conditioning, either the floor or all of the basement walls shall be insulated. For basements with direct conditioning, all of the basement walls shall be insulated.
 - h. Unheated slabs. Heated slabs shall have exterior edge insulated to R-5 to a depth of 2 feet (610 mm). Insulation located below grade shall be in compliance with Section 402.2.7.
 - i. See Section 402.2.8 of these Georgia State Supplements and Amendments.
 - j. Consideration should be given for mold, moisture, and for termite inspection and treatment.

Georgia is Climate Zone 3

Exceptions:

1. Climate Zone 2 Counties: Appling, Atkinson, Bacon, Baker, Berrien, Brantley, Brooks, Bryan, Camden, Charlton, Chatham, Clinch, Colquitt, Cook, Decatur, Echols, Effingham, Evans, Glynn, Grady, Jeff Davis, Lanier, Liberty, Long, Lowndes, McIntosh, Miller, Mitchell, Pierce, Seminole, Tattnall, Thomas, Toombs, Ware and Wayne.
2. Climate Zone 4 Counties: Banks, Catoosa, Chattooga, Dade, Dawson, Fannin, Floyd, Franklin, Gilmer, Gordon, Habersham, Hall, Lumpkin, Murray, Pickens, Rabun, Stephens, Towns, Union, Walker, White and Whitfield.