

**2006 IECC
Residential Energy Code Worksheet
Climate Zone 2 (Warm and Humid)**

Builder _____ Date _____

Building Address _____

Building Thermal Envelope

Minimum R – Values Table 402.1.1				Maximum Fenestration Requirement Table 402.1.3	
Wood Frame Wall	Mass Wall (Solid)	Ceiling	Floor	U - Factors	Solar Heat Gain Coefficient
13	4	30	13	0.75	0.40

Project Information

- | | | |
|------------------------------------|--|--|
| <input type="checkbox"/> New House | <input type="checkbox"/> Garage Conversion | <input type="checkbox"/> Insulate Ceiling Yes / No |
| <input type="checkbox"/> Addition | <input type="checkbox"/> Windows # _____ | <input type="checkbox"/> Insulate Walls Yes / No |
| <input type="checkbox"/> Remodel | <input type="checkbox"/> Doors # _____ | <input type="checkbox"/> Insulate floors Yes / No |

Statement of Compliance: *The proposed building design represented in these documents is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building design has been designed to meet the requirements of the adopted International Energy Conservation Code.*

The approved copy of this form shall be posted by the contractor at the job site upon request for inspection. No inspection will be performed if not posted and re-inspections fees will apply.

Building Designer _____ Date _____

Company Name _____ Phone _____

Comments: _____

Plans Reviewer _____ Date _____ Approved Disapproved

The Information represents the basic requirements only, is not all inclusive and does not replace or amend the adopted 2006 Energy Code.

2006 IECC
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(Continued)

Building Requirements;

Building Thermal Envelope 402.4.1

The building thermal envelope shall be durably sealed to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:

1. All joints, seams and penetrations.
2. Site-built windows, doors and skylights.
3. Openings between window and door assemblies and their respective jambs and framing.
4. Utility penetrations.
5. Dropped ceilings or chases adjacent to the thermal envelope.
6. Knee walls.
7. Walls and ceilings separating a garage from conditioned spaces.
8. Behind tubs and showers on exterior walls.
9. Common walls between dwelling units.
10. Other sources of infiltration.

Recessed lighting 402.4.3 (Can Lights)

Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces by being:

1. IC-rated and labeled with enclosures that are sealed or gasketed to prevent air leakage to the ceiling cavity or unconditioned space; or
2. IC-rated and labeled as meeting ASTM E 283 when tested at 1.57 psi (75 Pa) pressure differential with no more than 2.0 cfm (0.944 L/s) of air movement from the conditioned space to the ceiling cavity; or
3. Located inside an airtight sealed box with clearances of at least 0.5 inch (12.7 mm) from combustible material and 3 inches (76 mm) from insulation.

Note: Vapor barriers are not required for Bell County (Crawl space floor vapor retarders are not exempted).

Mechanical Requirements:

General Mechanical Requirements 403

1. Supply and return ducts shall be insulated to a minimum of R-8. Ducts in floor trusses shall be insulated to a minimum of R-6. Exception: Ducts or portions thereof located completely inside the building thermal envelope.
2. Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-2.

Controls 403.1

At least one thermostat shall be provided for each separate heating and cooling system.

Ducts 403.2

1. Insulation: Supply and return ducts shall be insulated to a minimum of R-8. Ducts in floor trusses shall be insulated to a minimum of R-6.

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

Sealing 403.2.2

2. 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.

Building Cavities 403.2.3

1. Building framing cavities shall not be used as supply ducts.

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