

Texas Building Energy Code Compliance Form For Residential Buildings in Unincorporated Areas

Effective Date: 9/1/2001

Texas law, Ch. 388, Subtitle C, Title 5, Health and Safety Code, requires a new residential structure to comply with the Texas Building Energy Efficiency Standards, which use the International Residential Code "IRC" and the International Energy Conservation Code "IECC" as it existed on May 1, 2001. This form can be used to document compliance outside of a municipal jurisdiction.

New Construction Address or Legal Description: _____

City _____ Zip _____ County: _____

Builder Name: _____

Builder Address: _____

This residence is (select **only one** of the following options):

- 1. Certified by an accredited energy efficiency program
Complete **Part A. Certification Information** below and attach copy of certification documents; **or**
- 2. Inspected by a code-certified inspector and determined to meet or exceed the minimum requirements.
Complete **Part B. Inspection Information** below, attach inspection documents; **or**
- 3. Self-certified by the builder to meet or exceed minimum requirements.
Complete **Part C. Self-Certification Form** on page 2. The Texas Residential Building Guide to Energy Code Compliance on the web at <http://eslsb5.tamu.edu> can be used for guidance on prescriptive requirements.

Part A. Certification Information:

Attach copy of certificate and rating checklist.

Name of certifying program: _____

Program Sponsor/Agency: _____ Certificate Number _____

Project Rating or Home Energy Rating System Score: _____

Is rating based on performance testing of this project? Yes _____ No _____

Rater name/address: _____

Rater certified by: _____ Certification number: _____

Rater signature: _____ Date: _____

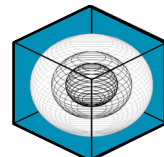
Part B. Inspection Information:

Attach a signed and dated copy of inspection checklist.

Inspector name/address: _____

Inspector certified as Residential Energy Plan Examiner/Inspector by _____

Certification number _____ Inspector signature _____ Date: _____



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Part C. Self - Certification Form

Compliance Features	Maximum Value	Minimum Value	Installed Value	Meets	Exceeds
1. Insulation (see the Texas Residential Building Guide to Energy Code Compliance)					
Wall Insulation				<input type="checkbox"/>	<input type="checkbox"/>
Floor Insulation (over unconditioned spaces or crawl spaces)				<input type="checkbox"/>	<input type="checkbox"/>
Attic / Ceiling Insulation				<input type="checkbox"/>	<input type="checkbox"/>
Duct Insulation (outside conditioned space)		R-5, R-6*		<input type="checkbox"/>	<input type="checkbox"/>
2. Windows and Doors (see the Texas Residential Building Guide to Energy Code Compliance)					
Glazing percent of total exterior wall area		N/A		N/A	
Window and Glazed Doors U-factor	See Table	N/A		<input type="checkbox"/>	<input type="checkbox"/>
Window and Glazed Doors SHGC**	See Table	N/A		<input type="checkbox"/>	<input type="checkbox"/>
Exterior doors (opaque) U-Factor	.35	N/A		<input type="checkbox"/>	<input type="checkbox"/>
3. HVAC Equipment (Equipment efficiency ratings must meet or exceed current NAECA standards)					
Water heater (NAECA std. or 80% thermal efficiency)		80%		<input type="checkbox"/>	<input type="checkbox"/>
Heat pump		6.8 HSPF		<input type="checkbox"/>	<input type="checkbox"/>
Air conditioner		10 SEER		<input type="checkbox"/>	<input type="checkbox"/>
Furnace		78% AFUE		<input type="checkbox"/>	<input type="checkbox"/>
4. Construction Requirements					
Air-tight recessed lights (ASTM E 283)				<input type="checkbox"/>	<input type="checkbox"/>
Sealed penetrations/gaps/holes. Duct connections must be properly sealed with mastic or UL 181 labeled tape at boots and joints (duct tape not allowed).				<input type="checkbox"/>	<input type="checkbox"/>
Caulking and weather-stripping must be properly installed; all holes, gaps and cracks properly sealed; recessed lights sealed.				<input type="checkbox"/>	<input type="checkbox"/>
Showerhead flow rate of 2.5 gal. per minute or less.				<input type="checkbox"/>	<input type="checkbox"/>
Insulate all circulating hot water pipes and HVAC refrigerant lines.				<input type="checkbox"/>	<input type="checkbox"/>
Thermostat for each HVAC unit or dwelling unit.				<input type="checkbox"/>	<input type="checkbox"/>
Electric meter for each unit in duplex or multi-family units.				<input type="checkbox"/>	<input type="checkbox"/>
HVAC contractor provided calculations showing equipment correctly sized and provided preventive maintenance manuals.				<input type="checkbox"/>	<input type="checkbox"/>

* When the window to wall area is less than 15%, R-5 is the requirement for attic duct insulation, per the IRC Chapter 11. When window to wall areas exceed 15% and per the legislative intent (see memo from Senator "Buster" Brown), it is the opinion of the Energy Systems Laboratory that R-6 insulated flexible duct may be substituted for the IECC required R-8 duct until February 1, 2003.

* SHGC - Solar Heat Gain Coefficient. For most of Texas (all zones south of the Red River), the area-weighted average of all windows and glazed doors may not exceed 0.40 unless an annual energy use analysis (must be attached) shows that permanent exterior shading and other measures will result in equivalent energy use/savings.

Builder Self-Certification:

I, _____, certify that all of the above information is correct and that the construction at the New Construction Address shown meets or exceeds the Texas Building Energy Efficiency Standards:

Builder name/address: _____

Builder signature: _____ Date: _____

