FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600B-04R — **Residential Component Prescriptive Method B** — **NORTH 1 2 3**

Compliance with Method B of Subchapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 600B for single-and multiple-family residences of three stories or less in height, and additions to existing residential buildings. To comply, a building must meet or exceed all of the energy efficiency prescriptives in any one of the prescriptive component packages and comply with the prescriptives listed in this form. An alternative method is provided for additions of 600 square feet or less by use of Form 600C. If a building does not comply with this method, it may still comply under other sections in Chapter 6 of the code.

PROJECT NAME: AND ADDRESS:		**BUILDER:**	
		PERMITTING OFFICE:	**CLIMATE ZONE:** 1 ☐ 2 ☐ 3 ☐
OWNER:		**PERMIT NO.:** ☐☐☐☐☐☐☐☐	**JURISDICTION NO.:** ☐☐☐☐☐☐

1. New construction including additions which incorporate any of the following features cannot comply using this method: steel stud walls, single assembly roof/ceiling construction, or skylights or other nonvertical roof glass.
2. Choose one of the component packages "A" through "C" from Table 6B-1 by which you intend to comply with the code. Circle the column of the package you have choosen.
3. Fill in all the applicable spaces of the "To Be Installed" column on "Table 6B-1 with the information requested. All "To Be Installed" values must be equal to or more efficient than the required levels.
4. Complete page 1 based on the "To Be Installed" column information.
5. Read "Minimum Requirements for All Packages," Table 6B-2 and check each box to indicate your intent to comply with all applicable items.
6. Read, sign and date the "Prepared By" certification statement at the bottom of page 1. The owner or owner's agent must also sign and date the form.

	Please Print	CK
1. Compliance package chosen (A-C)	1. _____	_____
2. New construction or addition	2. _____	_____
3. Single-family detached or multiple-family attached	3. _____	_____
4. If multiple-family–No. of units covered by this submission	4. _____	_____
5. Is this a worst case? (yes/no)	5. _____	_____
6. Conditioned floor area (sq. ft.)	6. _____	_____
7. Predominant eave overhang (ft.)	7. _____	_____
8. Glass type and area:	8a. _____	_____
** a. U-factor (or DEFAULT)	8b. _____	_____
b. SHGC (or DEFAULT)	8c. _____sq. ft.	_____
c. Glass area	9. _____ %	
9. Percentage of glass to floor area		_____
10. Floor type, area or perimeter, and insulation:		_____
a. Slab-on-grade (*R*-value)	10a R =_____ _____ lin. ft.	_____
b. Wood, raised (*R*-value)	10b. R =_____ _____ sq. ft.	_____
c. Wood, common (*R*-value)	10c. R =_____ _____ sq. ft.	_____
d. Concrete, raised (*R*-value)	10d. R =_____ _____ sq. ft.	
e. Concrete, common (*R*-value)	10e. R =_____ _____ sq. Ft.	
11. Wall type, area and insulation:		_____
a. Exterior: 1. Masonry (Insulation R-value)	11a-1 R =_____ _____ sq. ft.	_____
2. Wood frame (Insulation *R*-value)	11a-2 R =_____ _____ sq. ft.	_____
b. Adjacent: 1. Masonry (Insulation *R*-value)	11b-1 R =_____ _____ sq. ft.	_____
2. Wood frame (Insulation *R*-value)	11b-2 R =_____ _____ sq. ft.	
12. Ceiling type, area and insulation:		_____
a. Under attic (Insulation *R*-value)	12a. R =_____ sq. ft._____	_____
b. Single assembly (Insulation *R*-value)	12b. R =_____ _____ sq. ft.	_____
13. Air distribution system: Duct insulation, location	13. R =_____ _____	
Test report (attach if required)		_____
14. Cooling system:	14a. Type: _____	_____
(Types: central, room unit, package terminal A.C., gas, none)	14b. SEER/EER: _____	_____
	14c. Capacity: _____	_____
15. Heating system:	15a. Type: _____	_____
(Types: heat pump, elec. strip, nat. gas, LP-Gas, gas h.p., room or PTAC, none)	15b. HSPF/COP/AFUE: _____	_____
16. Hot water system:	15c. Capacity: _____	_____
(Types: elec., nat. gas, LP-gas, solar, heat rec., ded. heat pump, other, none)	16a. Type: _____	_____

I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____ **DATE:** _____

I hereby certify that this building is in compliance with the Florida Energy Code:

OWNER AGENT: _____ **DATE:** _____

Review of plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed, this building will be inspected for compliance in accordance with Section 553.908, F.S.

BUILDING OFFICIAL: _____

DATE: _____

TABLE 6B-1 **MINIMUM REQUIREMENTS** **Climate Zones 1 2 3**

COMPONENT	PACKAGE A	PACKAGE B	PACKAGE C	TO BE INSTALLED
Glass Overhang U-factor Solar Heat Gain Coefficient	≤ 18% glass to floor area 2' overhang required U-factor 0.65 SHGC 0.40	≤18% glass to floor area 2' overhang required U-factor 0.65 SHGC 0.65	≤ 18% glass to floor area 2' overhang required Double pane (Default) Clear (Default)	GFA_____ % OH_____ ft. U-factor:_____ SHGC:_____
Walls (exterior or adjacent) Wood frame CBS Insulation on interior of wall	 R-value R-13 R-value R-7	 R-value R-13 R-value R-7	 R-value R-13 R-value R-7	Exterior Adjacent R = _____ R =_____ R = _____ R =_____
Doors	Solid wood or insulated	Solid wood or insulated	Solid wood or insulated	
Ceilings Under attic/single assembly	 R-value R-30	 R-value R-38	 R-value R-38	 R = _____
Floor Slab-on-grade Raised floors	 R-value R-0 Not allowed	 R-value R-0 Not allowed	 R-value R-0 Not allowed	 R = _____ Not allowed
Cooling system	SEER 13.0	SEER 13.65	SEER 15.0	SEER = _____
Heating system Electric heat pump Gas furnace	 HSPF 7.7 Nat. gas AFUE 0.78 (LP gas not allowed)	 HSPF 8.1 Nat. gas AFUE 0.78 (LP gas not allowed)	 HSPF 8.5 Nat. gas AFUE 0.78 LP gas 0.80	 HSPF = _____ AFUE = _____ AFUE = _____
Water heater Electric water heater Gas water heater Other (see below)	 EF 0.94 Nat. gas EF 0.59 (LP gas not allowed)	 EF 0.92 Nat. gas EF 0.59 (LP gas not allowed)	 EF 0.92 Nat. gas EF 0.59 LP gas 0.63	 EF = _____ EF = _____ EF = _____
Air distribution system Ducts in attic Air handler location	 R-value R-6 AHU in the garage or inside conditioned space	 R-value R-6 AHU in the garage or inside conditioned space	TESTED (LP gas only) R-value R-6 AHU in the garage or inside conditioned space	❑ TESTED R = _____ Location:_____

DESCRIPTION OF BUILDING COMPONENTS LISTED

Percent of Glass to Floor Area: This percentage is calculated by dividing the total of all glass areas by the total conditioned floor area.

Overhang: The overhang is the distance the roof or soffit projects out horzontally from the face of the glass. All glass areas shall be under an overhang of at least the prescribed length with the following exceptions: 1) glass on the gabled ends of a house and 2) the glass in the lower stories of a multistory house.

Wall, Ceiling and Floor Insulation Values: The *R*-values indicated represent the minimum acceptable insulation level added to the structural components of the wall, ceiling or floor. The *R*-value of the structural building materials shall not be included in this calculation. "Common" components are those separating conditioned tenancies in a multiple-family building. "Adjacent" components separate conditioned space from unconditioned but enclosed space. "Exterior" components separate conditioned space from unconditioned and unenclosed space.

Floor: Slab-on-grade floors without edge insulation are acceptable. Raised wood floors are not allowed when complying by Method B.

Ducts: "TESTED" shall mean the ducts have less than 5% leakage based on a certified test report by a state-approved tester.

Space Cooling System: Cooling systems shall have a Seasonal Energy Efficiency Ratio (SEER) for central units or Energy Efficiency Ratio (EER) for room units or PTACs equal to or greater than the prescribed value.

Electric Space Heating Option: Heat pump systems shall be rated with a Heating Seasonal Performance Factor (HSPF) equal to or greater than the prescribed HSPF. Heat pump systems may contain electric strip backups meeting the criteria of Section 608.1.ABC.3.2.1.2. No electric resistance space heat is allowed for these packages.

Other Hot Water System Options: Any dedicated heat pump, heat recovery unit, or solar hot water system may be installed. Solar systems must have an EF of 1.5 or higher. Electric resistance systems having and EF of .92 or greater, or natural gas systems with EF .59 or greater may be used in conjunction with these systems.

TABLE 6B-2 MINIMUM REQUIREMENTS FOR ALL PACKAGES

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Exterior Joints & Cracks	606.1	To be caulked, gasketed, weather-stripped or otherwise sealed.	
Exterior Windows & Doors	606.1	Max .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Sole & Top Plates	606.1	Sole plates and penetrations through top plates of exterior walls must be sealed.	
Recessed Lighting	606.1	Type IC rated with no penetrations (two alternatives allowed).	
Multistory Houses	606.1	Air barrier on perimeter of floor cavity between floors.	
Exhaust Fans	606.1	Exhaust fans vented to unconditioned space shall have dampers, except for combustion devices with integral exhaust ductwork.	
Water Heaters	612.1	Comply with efficiency requirements in Table 612.1.ABC.3.2. Switch or clearly marked circuit breaker electric or cutoff (gas) must be provided. External or built-in heat trap required for vertical pipe risers.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Noncommercial pools must have a pump timer. Gas spa & pool heaters must have minimum thermal efficiency of 78%.	
Hot Water Pipes	612.1	Insulation is required for hot water circulating systems (including heat recovery units).	
Shower Heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 psig.	
HVAC Duct Construction, Insulation & Installation	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated and installed in accordance with the criteria of Section 610.1. Ducts in attics must be insulated to a minimum of R-6.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	