FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 1100C-07 **Residential Limited Applications Prescriptive Method C** **NORTH 1 2 3**

Small Additions, Renovations & Building Systems

+Compliance with Method C of Sub-Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 1100C-07 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single- and multiple-family residences. Alternative methods are provided for additions by use of Form 1100B-07 or 1100A-07.

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

SMALL ADDITIONS TO EXISTING RESIDENCES (600 square feet or less of conditioned area). Prescriptive requirements in Tables 11C-1, 11C-2, and 11C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 11C-1 and 11C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS. Comply when complete new system is installed.

	Please Print	CK
1. Renovation, Addition, New System or Manufactured Home	1. _____	____
2. Single-family detached or Multiple-family attached	2. _____	____
3. If Multiple-family–No. of units covered by this submission	3. _____	____
4. Conditioned floor area (sq. ft.)	4. _____	____
5. Predominant eave overhang (ft.)	5. _____	____
6. Glass type and area:	Single Pane Double Pane	
a. Clear glass	**6a.** _____ **sq. ft.** _____ **sq. ft.**	____
b. Tint, film or solar screen	**6b.** _____ **sq. ft.** _____ **sq. ft.**	____
7. Percentage of glass to floor area	**7.** _____ **%**	____
8. Floor type and insulation:		
a. Slab-on-grade (R-value)	**8a R =**_____ _____ lin. ft.	____
b. Wood, raised (R-value)	**8b. R =**_____ _____ sq. ft.	
c. Wood, common (R-value)	**8c. R =**_____ _____ sq. ft.	____
d. Concrete, raised (R-value)	**8d. R =**_____ _____ sq. ft.	____
e. Concrete, common (R-value)	**8e. R =**_____ _____ sq. ft.	____
9. Wall type and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	**9a-1 R =**_____ _____ sq. ft.	____
2. Wood frame (Insulation R-value)	**9a-2 R =**_____ _____ sq. ft.	____
b. Adjacent: 1. Masonry (Insulation R-value)	**9b-1 R =**_____ _____ sq. ft.	____
2. Wood frame (Insulation R-value)	**9b-2 R =**_____ _____ sq. ft.	____
c. Marriage Walls of Multiple Units* (Yes/No)	**9c** _____ _____	____
10. Ceiling type and insulation:		
a. Under attic (Insulation R-value)	**10a. R =**_____ _____ sq. ft.	____
b. Single assembly (Insulation R-value)	**10b. R =**_____ _____ sq. ft.	____
11. Cooling system*	**11. Type:** _____	____
(Types: central, room unit, package terminal A.C., gas, existing, none)	**SEER/EER:** _____	____
12. Heating system*	**12. Type:** _____	____
(Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC, existing, none)	**HSPF/COP/AFUE:** _____	____
13. Air distribution system*	**13a.** _____	____
a. Backflow damper or single package systems* (Yes/No)	**13b.** _____	____
b. Ducts on marriage walls adequately sealed* (Yes/No)	**14. Type:** _____	____
14. Hot water system:	**EF:** _____	____
(Types: elec., natural gas, other, existing, none)		

* Pertains to manufactured homes with site-installed components.

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: _____

Climate Zones 1, 2, 3

TABLE 11C-1: PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less), RENOVATIONS TO EXISTING BUILDINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED HOMES

	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block	R-7	_____
	Frame, 2′ x 4′	R-11	_____
	Frame, 2′ x 6′	R-19	_____
	Common, Frame	R-11	_____
	Common, Masonry	R-3	_____
CEILINGS	Under Attic	R-30	_____
	Single Assembly; Enclosed		_____
	Frame	R-19	_____
	Metal Pans	R-13	_____
	Single Assembly; Open	R-10	_____
	Common, Frame	R-11	
FLOORS	Slab-on-grade	No Minimum	_____
	Raised Wood	R-19	_____
	Raised Concrete	R-7	_____
	Common, Frame	R-11	_____
DUCT	In unconditioned space	R-6	_____
	In conditioned space	No minimum	_____

	EQUIPMENT	MINIMUM EFFICIENCY	INSTALLED EFFICIENCY
COOLING	Central A/C - Split	SEER = 13.0*	SEER = _____
	- Single Pkg.	SEER = 13.0*	SEER = _____
	Room unit or PTAC	EER = 8.5*	EER = _____
SPACE HEATING	Electric Resistance	ANY	
	Heat pump - Split	HSPF = 7.7*	HSPF = _____
	- Single Pkg.	HSPF = 7.7*	HSPF = _____
	Room unit or PTHP	COP = 2.7*	HSPF/COP = _____
	Gas, natural or propane	AFUE = .78	AFUE = _____
	Fuel Oil	AFUE = .78	AFUE = _____
HOT WATER	Electric Resistance	EF = .92	EF = _____
	Gas; natural or LP	EF = .59	EF = _____
	Fuel Oil	EF = .54	EF = _____

* See Table 13-607.1.ABC.3.2 and 13-608.1.ABC.3.2

TABLE 11C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum % = ____ Installed % = _____

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED

UP TO 20%		UP TO 30%		UP TO 40%		UP TO 50%	
Single	Double	Single	Double	Single	Double	Single	Double
OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC
1' - .87 0' - .75	0' - .78	2' - .87 1' - .75 0' - .57	1' - .78 0' - .61	NOT ALLOWED	2' - .78 1' - .61 0' - .44	NOT ALLOWED	3' - .78 2' - .61 1' - .44 0' - .35

Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .75, double clear SHGC = .66, and single tint SHGC = .64

TABLE 11C-3 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. 0.3 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.	
Combustion Heating	606.1	Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances.	
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.	

GENERAL DIRECTIONS:

1. On Table 11C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment being installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.
2. ADDITIONS ONLY. Determine the percentage of new glass to conditioned floor area in the addition as follows. Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all nonvertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 11C-2. Prescriptives are given by the type of glass (single or double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the house and being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 11C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.
3. RENOVATIONS ONLY. Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a 2-foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.
4. BUILDING SYSTEMS. Comply when new system is installed for system installed.
5. Complete the information requested on the top half of page 1.
6 Read "Minimum Requirements for Small Additions and Renovations," Table 11C-3, and check all applicable items.
7. Read, sign and date the "Owner/Agent" certification statement on page 1.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 1100C-07 **Residential Limited Applications Prescriptive Method C** **CENTRAL 4 5 6**

Small Additions, Renovations & Building Systems

Compliance with Method C of Sub-Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 1100C-07 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single- and multiple-family residences. Alternative methods are provided for additions by use of Form 1100B-07 or 1100A-07.

PROJECT NAME: AND ADDRESS:		**BUILDER:**	
		PERMITTING OFFICE:	**CLIMATE ZONE:** 4 ☐ 5 ☐ 6 ☐
OWNER:		**PERMIT NO.:** ☐☐☐☐☐☐☐☐	**JURISDICTION NO.:** ☐☐☐☐☐☐

SMALL ADDITIONS TO EXISTING RESIDENCES (600 square feet or less of conditioned area). Prescriptive requirements in Tables 11C-1, 11C-2, and 11C-3 apply only to the components of the addition, not to the existing building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components separating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 11C-1 and 11C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS. Comply when complete new system is installed.

	Please Print	CK
1. Renovation, Addition, New System or Manufactured Home	**1.** _____	_____
2. Single-family detached or Multiple-family attached	**2.** _____	_____
3. If Multiple-family–No. of units covered by this submission	**3.** _____	_____
4. Conditioned floor area (sq. ft.)	**4.** _____	_____
5. Predominant eave overhang (ft.)	**5.** _____	_____
6. Glass type and area:	Single Pane Double Pane	
a. Clear glass	**6a.** _____ **sq. ft.** _____ **sq. ft.**	_____
b. Tint, film or solar screen	**6b.** _____ **sq. ft.** _____ **sq. ft.**	_____
7. Percentage of glass to floor area	**7.** _____%	_____
8. Floor type and insulation:		
a. Slab-on-grade (R-value)	**8a R =** _____ _____ lin. ft.	_____
b. Wood, raised (R-value)	**8b. R =** _____ _____ sq. ft.	_____
c. Wood, common (R-value)	**8c. R =** _____ _____ sq. ft.	_____
d. Concrete, raised (R-value)	**8d. R =** _____ _____ sq. ft.	_____
e. Concrete, common (R-value)	**8e. R =** _____ _____ sq. ft.	_____
9. Wall type and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	**9a-1 R =** _____ _____ sq. ft.	_____
2. Wood frame (Insulation R-value)	**9a-2 R =** _____ _____ sq. ft.	_____
b. Adjacent: 1. Masonry (Insulation R-value)	**9b-1 R =** _____ _____ sq. ft.	_____
2. Wood frame (Insulation R-value)	**9b-2 R =** _____ _____ sq. ft.	_____
	9c. _____ _____	_____
c. Marriage Walls of Multiple Units* (Yes/No)	**10a. R =** _____ _____ sq. ft.	_____
	10b. R = _____ _____ sq. ft.	_____
10. Ceiling type and insulation:		
a. Under attic (Insulation R-value)		
b. Single assembly (Insulation R-value)	**11. Type:** _____	_____
	SEER/EER: _____	
11. Cooling system*		
(Types: central, room unit, package terminal A.C., gas, existing, none)	**12. Type:** _____	_____
	HSPF/COP/AFUE: _____	_____
12. Heating system*		
(Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC, existing, none)		
	13a. _____	_____
13. Air distribution system*	**13b.** _____	_____
a. Backflow damper or single package systems* (Yes/No)	**14. Type:** _____	_____
b. Ducts on marriage walls adequately sealed* (Yes/No)	**EF:** _____	_____
14. Hot water system:		

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: _____

Climate Zones 4, 5, 6

TABLE 11C-1: PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less), RENOVATIONS TO EXISTNG BUILDINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED

	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block	R-5	_____
	Frame, 2' x 4'	R-11	_____
	Frame, 2' x 4'	R-19	_____
	Common, Frame	R-11	_____
	Common, Masonry	R-3	_____
CEILINGS	Under Attic	R-30	_____
	Single Assembly; Enclosed		_____
	Frame	R-19	_____
	Metal Pans	R-13	_____
	Single Assembly; Open	R-10	_____
	Common, Frame	R-11	
FLOORS	Slab-on-grade	No Minimum	_____
	Raised Wood	R-11	_____
	Raised Concrete	R-5	_____
	Common, Frame	R-11	_____
DUCT	In unconditioned space	R-6	_____
	In conditioned space	No minimum	_____

	EQUIPMENT	MINIMUM EFFICIENCY	INSTALLED EFFICIENCY
COOLING	Central A/C - Split	SEER = 13.0*	SEER = _____
	- Single Pkg.	SEER = 13.0*	SEER = _____
	Room unit or PTAC	EER = 8.5*	EER = _____
SPACE HEATING	Electric Resistance	ANY	
	Heat pump - Split	HSPF = 7.7*	HSPF = _____
	- Single Pkg.	HSPF = 7.7*	HSPF = _____
	Room unit or PTHP	COP = 2.7*	HSPF/COP = _____
	Gas, natural or propane	AFUE = .78	AFUE = _____
	Fuel Oil	AFUE = .78	AFUE = _____
HOT WATER	Electric Resistance	EF = .92	EF = _____
	Gas; natural or LP-gas	EF = .59	EF = _____
	Fuel Oil	EF = .54	EF = _____

* See Table 13-607.1.ABC.3.2 and 13-608.1.ABC.3.2

HOMES

Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum % = ____ Installed % = ____

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED

UP TO 20%		UP TO 30%		UP TO 40%		UP TO 50%	
Single	Double	Single	Double	Single	Double	Single	Double
OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC
1' - .87	0' - .78	2' - .87	1' - .78	3' - .87	2' - .78	4' - .87	3' - .78
0' - .75		1' - .75	0' - .61	2' - .75	1' - .61	3' - .75	2' - .61
		0' - .57		1' - .57	0' - .44	2' - .57	1' - .44
				0' - .39		1' - .39	0' - .35
						0' - .30	

Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .75, double clear SHGC = .66, and single tint SHGC = .64

TABLE 11C-3 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. 0.3 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.	
Combustion Heating	606.1	Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances.	
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.	

TABLE 11C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

GENERAL DIRECTIONS:

1. On Table 11C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment being installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.

2. ADDITIONS ONLY. Determine the percentage of new glass to conditioned floor area in the addition as follows. Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all nonvertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 11C-2. Prescriptives are given by the type of glass (single or double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the housend being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 11C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.

3. RENOVATIONS ONLY. Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a 2-foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.

4. BUILDING SYSTEMS. Comply when new system is installed for system installed.

5. Complete the information requested on the top half of page 1.

6 Read "Minimum Requirements for Small Additions and Renovations," Table 11C-3, and check all applicable items.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 1100C-07 **Residential Limited Applications Prescriptive Method C** **SOUTH 7 8 9**

Small Additions, Renovations & Building Systems

Compliance with Method C of Sub-Chapter 6 of the Florida Energy Efficiency Code may be demonstrated by the use of Form 1100C-07 for additions of 600 square feet or less, site-installed components of manufactured homes, and renovations to single- and multiple-family residences. Alternative methods are provided for additions by use of Form 1100B-07 or 1100A-07.

PROJECT NAME: AND ADDRESS:		**BUILDER:**	
		PERMITTING OFFICE:	**CLIMATE ZONE:** 7 ☐ 8 ☐ 9 ☐
OWNER:		**PERMIT NO.:** ☐☐☐☐☐☐☐☐	**JURISDICTION NO.:** ☐☐☐☐☐☐

SMALL ADDITIONS TO EXISTING RESIDENCES (600 square feet or less of conditioned area). Prescriptive requirements in Tables 11C-1, 11C-2, and 11C-3 apply only to the components of the addition, not to the existng building. Space heating, cooling, and water heating equipment efficiency levels must be met only when equipment is installed specifically to serve the addition or is being installed in conjunction with the addition construction. Components seperating unconditioned spaces from conditioned spaces must meet the prescribed minimum insulation levels. RENOVATIONS (Residential buildings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements in Tables 11C-1 and 11C-2 apply only to the components and equipment being renovated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covered by this form. BUILDING SYSTEMS Comply when complete new system is installed.

	Please Print	CK
1. Renovation, Addition, New System or Manufactured Home	**1.** _____	_____
2. Single-family detached or Multiple-family attached	**2.** _____	_____
3. If Multiple-family–No. of units covered by this submission	**3.** _____	_____
4. Conditioned floor area (sq. ft.)	**4.** _____	_____
5. Predominant eave overhang (ft.)	**5.** _____	_____
6. Glass type and area:	Single Pane Double Pane	
a. Clear glass	**6a.** _____ **sq. ft.** _____ **sq. ft.**	_____
b. Tint, film or solar screen	**6b.** _____ **sq. ft.** _____ **sq. ft.**	_____
7. Percentage of glass to floor area	**7.** _____ **%**	_____
8. Floor type and insulation:		
a. Slab-on-grade (R-value)	**8a R =**_____ _____ lin. ft.	_____
b. Wood, raised (R-value)	**8b. R =**_____ _____ sq. ft.	_____
c. Wood, common (R-value)	**8c. R =**_____ _____ sq. ft.	_____
d. Concrete, raised (R-value)	**8d. R =**_____ _____ sq. ft.	_____
e. Concrete, common (R-value)	**8e. R =**_____ _____ sq. ft.	_____
9. Wall type and insulation:		
a. Exterior: 1. Masonry (Insulation R-value)	**9a-1 R =** _____ _____ sq. ft.	_____
2. Wood frame (Insulation R-value)	**9a-2 R =**_____ _____ sq. ft.	____
b. Adjacent: 1. Masonry (Insulation R-value)	**9b-1 R =**_____ _____ sq. ft.	_____
2. Wood frame (Insulation R-value)	**9b-2 R =**_____ _____ sq. ft.	_____
c. Marriage Walls of Multiple Units* (Yes/No)	**9c.** _____ _____	_____
10. Ceiling type and insulation:		
a. Under attic (Insulation R-value)	**10a. R =**_____ _____ sq. ft.	_____
b. Single assembly (Insulation R-value)	**10b. R =**_____ _____ sq. ft.	_____
11. Cooling system*	**11. Type:** _____	_____
(Types: central, room unit, package terminal A.C., gas, existing, none)	**SEER/EER:** _____	_____
12. Heating system*	**12. Type:** _____	_____
(Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC, existing, none)	**HSPF/COP/AFUE:**_____	_____
13. Air distribution system*	**13a.** _____	_____
a. Backflow damper or single package systems* (Yes/No)	**13b.** _____	_____
b. Ducts on marriage walls adequately sealed* (Yes/No)	**14. Type:** _____	_____
14. Hot water system:	**EF:** _____	_____
(Types: elec., natural gas, other, existing, none)		

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:_____

Climate Zones 7, 8, 9

TABLE 11C-1: PRESCRIPTIVE REQUIREMENTS FOR SMALL ADDITIONS (600 Sq. Ft. and Less),RENOVATIONS TO EXISTNG BUIDLINGS AND SITE-INSTALLED COMPONENTS OF MANUFACTURED HOMES

	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block	R-5	_____
	Frame, 2′ x 4′	R-11	_____
	Frame, 2′ x 6′	R-19	_____
	Common, Frame	R-11	_____
	Common, Masonry	R-3	_____
CEILINGS	Under Attic	R-30	_____
	Single Assembly; Enclosed		_____
	Frame	R-19	_____
	Metal Pans	R-13	_____
	Single Assembly; Open	R-10	_____
	Common, Frame	R-11	
FLOORS	Slab-on-grade	No Minimum	_____
	Raised Wood	R-11	_____
	Raised Concrete	R-5	_____
	Common, Frame	R-11	_____
DUCT	In unconditioned space	R-6	_____
	In conditioned space	No minimum	_____

	EQUIPMENT	MINIMUM EFFICIENCY	INSTALLED EFFICIENCY
COOLING	Central A/C - Split	SEER = 13.0*	SEER = _____
	- Single Pkg.	SEER = 13.0*	SEER = _____
	Room unit or PTAC	EER = 8.5*	EER = _____
SPACE HEATING	Electric Resistance	ANY	
	Heat pump - Split	HSPF = 7.7*	HSPF = _____
	- Single Pkg.	HSPF = 7.7*	HSPF = _____
	Room unit or PTHP	COP = 2.7*	HSPF/COP = _____
	Gas; natural or propane	AFUE = .78	AFUE =_____
	Fuel Oil	AFUE = .78	AFUE = _____
HOT WATER	Electric Resistance	EF = .92	EF = _____
	Gas; natural or LP	EF = .59	EF = _____
	Fuel Oil	EF = .54	EF = _____

* See Table 13-607.1.ABC.3.2 and 13-608.1.ABC.3.2

TABLE 11C-2: PRESCRIPTIVE REQUIREMENTS FOR GLASS AREAS IN ADDITIONS ONLY

Maximum percentage glass to floor area allowed is selected by type, overhang length, and solar heat gain coefficient. Maximum % = ____ Installed % = ____

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED

UP TO 20%		UP TO 30%		UP TO 40%		UP TO 50%	
Single	Double	Single	Double	Single	Double	Single	Double
OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC	OH-SHGC
1' - .87	0' - .78	2' - .87	1' - .78	3' - .87	2' - .78	4' - .87	3' - .78
0' - .75		1' - .75	0' - .61	2' - .75	1' - .61	3' - .75	2' - .61
		0' - .57		1' - .57	0' - .44	2' - .57	1' - .44
				0' - .39		1' - .39	0' - .35
						0' - .30	

Get certified SHGC from the manufacturer or use defaults: Single clear SHGC = .75, double clear SHGC = .66, and single tint SHGC = .64

TABLE 11C-3 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. 0.3 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.	
Combustion Heating	606.1	Combustion space and water heating systems must be provided with outside combustion air, except for direct vent appliances.	
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.	

GENERAL DIRECTIONS:

1. On Table 11C-1 indicate the R-value of the insulation being added to each component and the efficiency levels of the equipment installed. All R-values and efficiencies installed must meet or exceed the minimum values listed. Components and equipment neither being added nor renovated may be left blank.
2. ADDITIONS ONLY. Determine the percentage of new glass to conditioned floor area in the addition as follows. Total the areas of all glass windows, sliding glass doors and glass door panels. Double the area of all nonvertical roof glass and add it to the previous total. When glass in existing exterior walls is being removed or enclosed by the addition, an amount equal to the total area of this glass may be subtracted from the total glass area. Divide the adjusted glass area total by the conditioned floor area of the addition. Multiply by 100 to get the percent. Find the largest glass percentage under which your calculated percentage falls on Table 11C-2. Prescriptives are given by the type of glass (single or double pane) and the overhang (OH) paired with a solar heat gain coefficient (SHGC). For a given glass type and overhang, the minimum solar heat gain coefficient allowed is specified. Actual glass windows and doors previously in the exterior walls of the house and being reinstalled in the addition do not have to comply with the overhang and solar heat gain coefficient requirements on Table 11C-2. All new glass in the addition must meet the requirement for one of the options in the glass percentage category you indicated. The overhang (OH) distance is measured perpendicularly from the face of the glass to a point directly under the outermost edge of the overhang.
3. RENOVATIONS ONLY. Replacement glass needs to meet the following requirements. Any glass type and solar heat gain coefficient may be used for glass areas which are under at least a 2-foot overhang and whose lowest edge does not extend further than 8 feet from the overhang. Glass areas being renovated that do not meet this criteria must be either single-pane tinted, double-pane clear or double-pane tinted.
4. BUILDING SYSTEMS. Comply when new system is installed for system installed.
5. Complete the information requested on the top half of page 1.
6 Read "Minimum Requirements for Small Additions and Renovations," Table 11C-3, and check all applicable items.
7. Read, sign and date the "Owner/Agent" certification statement on page 1.