FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Small Additions, Renovations & Building Systems

FORM 1100C-07

Residential Limited Applications Prescriptive Method C

NORTH 1 2 3

+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:	BUILDER:	
AND ADDRESS:	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 bu rer ins

conju build	nction with the addition construction. Components separating unconditioned spaces from conditioned spaces must r ings undergoing renovations costing more than 30% of the assessed value of the building). Prescriptive requirements rated or replaced. MANUFACTURED HOMES AND BUILDINGS. Only site-installed components and features are covere led.	meet the p s in Tables	prescribed minimum insulation levels. RENOVATIONS 11C-1 and 11C-2 apply only to the components and	l èquipment bein
			Please Print	ск
1.	Renovation, Addition, New System or Manufactured Home	1		1
2.	Single-family detached or Multiple-family attached	2		
3.	If Multiple-family–No. of units covered by this submission	3 4.		N 100
4.	Conditioned floor area (sq. ft.)	5.	NI/ ' / '/	MIL.
5.	Predominant eave overhang (ft.)	ш	1/11/11 1 _ 1	
6.	Glass type and area:	и	Single Pane Double Pane	<i>y</i>
	a. Clear glass	6a.	sq. ft sq. ft.	r —
	b. Tint, film or solar screen	6b. 7.	sq. ft sq. ft.	
7.	Percentage of glass to floor area	l ''		
8.	Floor type and insulation:	8a	R = lin. ft.	
	a. Slab-on-grade (R-value) b. Wood, raised (R-value)	8b.	R = sq. ft.	
	c. Wood, raised (n-value)	8c.	R = sq. ft.	l ——
	d. Concrete, raised (R-value)	8d. 8e.	R = sq. ft. R = sq. ft.	
	e. Concrete, common (R-value)		/	
9.	Wall type and insulation:	9a-1		
	a. Exterior: 1. Masonry (Insulation R-value) 2. Wood frame (Insulation R-value)	9a-2	R = sq. ft.	l ——
	b. Adjacent: 1. Masonry (Insulation R-value)	9b-1		
	2. Wood frame (Insulation R-value)	9b-2	R = sq. ft.	
	c. Marriage Walls of Multiple Units* (Yes/No)	9с		
10.	Ceiling type and insulation:	10a.	R = sq. ft.	
	a. Under attic (Insulation R-value)	10b.	R = sq. ft.	
	b. Single assembly (Insulation R-value)	11.	Type:	
11.	Cooling system*	0	SEER/EER:	
	(Types: central, room unit, package terminal A.C., gas, existing, none)	12.	Type:	
12.	Heating system*		HSPF/COP/AFUE:	
	(Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC,	\vee	0 2001	
	existing, none)	13a.		
13.	Air distribution system*	13b.		
	a. Backflow damper or single package systems* (Yes/No) b. Ducts on marriage walls adequately sealed* (Yes/No)	14.	71	
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.	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.
PREPARED BY: DATE:	PIUL DING OFFICIAL
I hereby certify that this building is in compliance with the Florida Energy Code: OWNER AGENT:	BUILDING OFFICIAL: DATE:

* Pertains to manufactured homes with site-installed components.

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

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

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

HOMES

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

BLE 11C-2: PRESCRIPTIVE REQUIREMENTS	FOR GLASS AREAS IN ADDITIONS ONLY
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	GLASS TYPE,	OVERHANG, AND S	OLAR HEAT GAIN C	OEFFICIENT REQU	IRED FOR GLASS PE	RCENTAGE ALLOWER	
UP TO	O 20%	UP 1	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

TABLE 11C-3 MINIMUM REG	QUIREMENTS	S 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).	ype 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.
- The minimum values issed. 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 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 on the 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.

 2. RENOVENDES ONLY Preventions of the properties of the properties of the prevention of the properties of the propertie
- 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 456

СК

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:		BUILDER:		
AND ADDRESS:		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.

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	-400	r.,	w.			an 1			-31	l	ALC: U			JUL 1	. 1	ш.		- 1

- Single-family detached or Multiple-family attached
- 3. If Multiple-family-No. of units covered by this submission
- 4. Conditioned floor area (sq. ft.)
- 5. Predominant eave overhang (ft.)
- 6. Glass type and area:
 - a. Clear glass
 - b. Tint, film or solar screen
- 7. Percentage of glass to floor area
- 8. Floor type and insulation:
 - a. Slab-on-grade (R-value)
 - b. Wood, raised (R-value)
 - c. Wood, common (R-value)
 - d. Concrete, raised (R-value)
 - e. Concrete, common (R-value)
- 9. Wall type and insulation:
 - **a.** Exterior: 1. Masonry (Insulation R-value)
 - 2. Wood frame (Insulation R-value)
 - b. Adjacent: 1. Masonry (Insulation R-value)
 - 2. Wood frame (Insulation R-value)
 - c. Marriage Walls of Multiple Units* (Yes/No)
- 10. Ceiling type and insulation:
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
- 11. Cooling system*

(Types: central, room unit, package terminal A.C., gas, existing, none)

12. Heating system*

(Types: heat pump, elec. strip, natural gas, LP-gas, gas h.p., room or PTAC existing, none)

- 13. Air distribution system*
 - a. Backflow damper or single package systems* (Yes/No)
 - b. Ducts on marriage walls adequately sealed* (Yes/No)
- 14. Hot water system:

		Single Pane	Double P	ane	
	6a.	sq.			l
	6b.	sq. :		-	
	7.	%			
	- /11				
	8a	R =	1000		
	8b.		_		
	8c.	R =		sq. ft.	
	8d.	R =	_	sq. ft.	
	8e.	R =		sq. ft.	
	4	-	- 1	١.	
١.	9a-1	R =	_		l —
D.	9a-2	R =			
	9b-1	R =			l ——
	9b-2	R =		sq. π.	
	9c.				
	10a.	R =		sq. ft.	
	10b.	R =			
(11. 12.	Type: SEER/EER: Type: HSPF/COP/AF	JU	7	 -
	13a.				
	13b.				
	14.				
	14.	Type: EF:			
		L			

Please Print

I hereby certify that the plans and specifications covered by the calculation at the Florida Energy Code.	·	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.
PREPARED BY:	DATE:	BUILDING OFFICIAL:
I hereby certify that this building is in compliance with the Florida Energy Coo OWNER AGENT:	de: DATE:	DATE:

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

	THE TENEDOMIN TIVE NEGOTIEMENT	0 : 0:: 0::::::::::::::::::::::::::::::	
	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block Frame, 2' x 4' Frame, 2' x 4' Common, Frame Common, Masonry	R-5 R-11 R-19 R-11 R-3	
CEILINGS	Under Attic Single Assembly; Enclosed Frame Metal Pans Single Assembly; Open Common, Frame	R-30 R-19 R-13 R-10 R-11	
FLOORS	Slab-on-grade Raised Wood Raised Concrete Common, Frame	No Minimum R-11 R-5 R-11	
DUCT	In unconditioned space In conditioned space	R-6 No minimum	

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

^{*} See Table 13-607.1.ABC.3.2 and 13-608.1.ABC.3.2

HOMES

GLASS TYPE, OVERHANG, AND SOLAR HEAT GAIN COEFFICIENT REQUIRED FOR GLASS PERCENTAGE ALLOWED										
UP T	O 20%	UP T	O 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			
		1				0'30				

TABLE 11C-3 MINIMUM RE	QUIREMENTS	S FOR ALL PACKAGES					
COMPONENTS	SECTION	REQUIREMENTS	CHECK				
Exterior Joints & Cracks	606.1	To be caulked, gasketed, weather-stripped or otherwise sealed.					
Exterior Windows & Doors	xterior Windows & Doors 606.1 Max. 0.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.						
Sole & Top Plates	606.1	ole 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 pecent. Find the largest glass percentage under which your calculated percentage talls 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 houseand 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	Renovations & Building	Residential Limited App	olicatio	ons Pr	rescri	ptive M	ethod	IC	so	UTH 7 8 9
Com	pliance with Method C of	Sub-Chapter 6 of the Florida Ene	rgy Efficiency Code may be demonstr family residences. Alternative method							less, site-installed	I components of
	ROJECT NAME:	ovations to single- and multiple-	BUILDER:	s are pro	Wided 10	n auunin	ons by use	011011	11 1100B-07 01 1100A-07.		
	ID ADDRESS:		PERMITTING OFFICE:						CLIMATE ZONE: 7 8	9	
٥٧	VNER:		PERMIT NO.:						JURISDICTION NO.	:	
apply serve levels comp	only to the components the addition or is being in the addition.	installed in conjunction with the a ential buildings undergoing renova eing renovated or replaced. MAN	et or less of conditioned area).) building. Space heating, cooling, and ddition construction. Components se ations costing more than 30% of the UFACTURED HOMES AND BUILDINGS	perating assessed	uncondi I value o	itioned s of the bu	spaces froi	m condi escriptiv	itioned spaces must meet th ve requirements in Tables 11	uipment is installe e prescribed mini C-1 and 11C-2 ap	ed specifically to mum insulation oply only to the
									Please Print		ск
1.	Renovation, Ad	dition, New System or	Manufactured Home				1				
2.	Single-family de	etached or Multiple-fa	mily attached				2				
3. 4. 5. 6.	Conditioned flo Predominant ea Glass type and a. Clear gla	ave overhang (ft.) area:	d by this submission	L	l		3 4 5 6a. 6b.	Sing	le Pane Double sq. ft sq. ft	sq. ft.	D
7.	Percentage of g	lass to floor area					7.		%		
8.	Floor type and i	insulation:					١.	_			
	b. Wood, ra c. Wood, c d. Concret	-grade (R-value) aised (R-value) ommon (R-value) e, raised (R-value) e, common (R-value)	J n	Ì			8a 8b. 8c. 8d. 8e.	R = R = R =		sq. ft. sq. ft.	
9.	Wall type and ir a. Exterior: b. Adjacent:	nsulation: 1. Masonry (Insula 2. Wood frame (In 1. Masonry (Insula 2. Wood frame (In	sulation R-value) ation R-value)		١			R=		sq. ft. sq. ft. sq. ft. sq. ft.	
	c. Marriage W	alls of Multiple Units* (Y	'es/No)								
10.		d insulation: ttic (Insulation R-value) ssembly (Insulation R-v							<u> </u>		
11.	Cooling system	1*					11.	Туре	e:		
12.	Heating system	* at pump, elec. strip, nat	e terminal A.C., gas, existil ural gas, LP-gas, gas h.p.,	1.	_	AC,	12.	Туре	:R/EER: e: PF/COP/AFUE:	7	
13.	Air distribution a. Backflow	system* v damper or single pack	age systems* (Yes/No)				13a. 13b.	_			
	b. Ducts or	n marriage walls adequa	ately sealed* (Yes/No)				14.		e:		
14.	Hot water syste							EF:			
	-	ec., natural gas, other, e	xisting, none)				_				1
the	reby certify that the plans Florida Energy Code.	s and specifications covered by th	ne calculation are in compliance with	Energy	y Code. I	Before of		n is cor	ered by this calculation indicampleted, this building will be		

I hereby certify that the plans and specifications covered by the calculation a the Florida Energy Code.		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.
PREPARED BY:	DATE:	BUILDING OFFICIAL:
I hereby certify that this building is in compliance with the Florida Energy Co	ode:	BOILDING OFFICIAL.
OWNER AGENT:	DATE:	DATE:

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

	COMPONENT	MINIMUM INSULATION	INSULATION INSTALLED
WALLS	Concrete Block Frame, 2' x 4' Frame, 2' x 6' Common, Frame Common, Masonry	R-5 R-11 R-19 R-11 R-3	
CEILINGS	Under Attic Single Assembly; Enclosed Frame Metal Pans Single Assembly; Open Common, Frame	R-30 R-19 R-13 R-10 R-11	
FLOORS	Slab-on-grade Raised Wood Raised Concrete Common, Frame	No Minimum R-11 R-5 R-11	
DUCT	In unconditioned space In conditioned space	R-6 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 Heat pump - Split	ANY HSPF = 7.7* HSPF = 7.7* COP = 2.7* AFUE = .78 AFUE = .78	HSPF = HSPF = HSPF/COP = AFUE = AFUE =
HOT	Electric Resistance	EF = .92	EF =
	Gas; natural or LP	EF = .59	EF =
	Fuel Oil	EF = .54	EF =

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

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

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%							O 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				

TABLE 11C-3 MINIMUM REC	QUIREMENTS	S FOR ALL PACKAGES				
COMPONENTS	SECTION	REQUIREMENTS	CHECK			
Exterior Joints & Cracks	606.1	be caulked, gasketed, weather-stripped or otherwise sealed.				
Exterior Windows & Doors	606.1	ax. 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	pe IC rated with no penetrations (two alternatives allowed).				
Multistory Houses	606.1	r 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.