

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

FORM 600A-01

Residential Whole Building Performance Method A

NORTH 1 2 3

PROJECT NAME: _____	BUILDER: _____	CLIMATE ZONE: 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>
AND ADDRESS: _____	PERMITTING OFFICE: _____	
OWNER: _____	PERMIT NO.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	JURISDICTION NO.: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

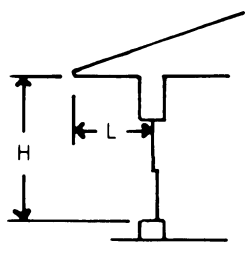
1. **New construction or addition**
2. **Single family detached or Multifamily attached**
3. **If Multifamily—No. of units covered by this submission**
4. **Is this a worst case? (yes / no)**
5. **Conditioned floor area (sq. ft.)**
6. **Predominant eave overhang (ft.)**
7. **Glass type and area:**
 - a. Clear glass
 - b. Tint, film or solar screen
8. **Floor type and insulation:**
 - a. Slab-on-grade (R-value + perimeter)
 - b. Wood, raised (R-value + sq. ft.)
 - c. Concrete, raised (R-value)
9. **Net Wall type, area and insulation:**
 - a. **Exterior:**
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
 5. Other: _____
 - b. **Adjacent:**
 1. Concrete block (Insulation R-value)
 2. Wood frame (Insulation R-value)
 3. Steel frame (Insulation R-value)
 4. Log (Insulation R-value)
10. **Ceiling type, area and insulation:**
 - a. Under attic (Insulation R-value)
 - b. Single assembly (Insulation R-value)
 - c. Radiant barrier, IRCC or white roof installed?
11. **Air distribution system:**
 - a. Ducts (Insulation + Location)
 - b. Air Handler (Location)
12. **Cooling system:**
(Types: central-split, central-single pkg., room unit, PTAC., gas, none)
13. **Heating system:**
(Types: heat pump, elec. strip, nat. gas, L.P. gas, gas h.p., room or PTAC, none)
14. **Hot water system:**
(Types: elec., natural gas, solar, L.P. gas, none)
15. **Hot Water Credits:**
 - a. Heat Recovery (HR)
 - b. Dedicated Heat Pump(DHP)
 - c. Solar
16. **HVAC Credits**
(Use: CF-Ceiling Fan, CV-Cross vent, PT-Programmable thermostat, HF-Whole house fan, MZ-Multizone)
17. **COMPLIANCE STATUS:** (PASS if As-Built Pts. are less than Base Pts.)
 - a. Total As-Built points
 - b. Total Base points

	Please Type	CK
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____ sq. ft.	_____
6.	_____ ft.	_____
	Single Pane Double Pane	
7a.	_____ sq. ft.	_____ sq. ft.
7b.	_____ sq. ft.	_____ sq. ft.
8a.	R= _____ , _____ l. ft.	_____
8b.	R= _____ , _____ sq. ft.	_____
8c.	R= _____ , _____ sq. ft.	_____
9a-1	R= _____ sq. ft.	_____
9a-2	R= _____ sq. ft.	_____
9a-3	R= _____ sq. ft.	_____
9a-4	R= _____ sq. ft.	_____
9b-1	R= _____ sq. ft.	_____
9b-2	R= _____ sq. ft.	_____
9b-3	R= _____ sq. ft.	_____
9b-4	R= _____ sq. ft.	_____
10a.	R= _____ sq. ft.	_____
10b.	R= _____ sq. ft.	_____
10c.	_____	_____
11a.	R= _____ , _____ (cond./uncond.)	_____
11b.	_____ (cond./uncond.)	_____
12a.	Type: _____	_____
12b.	SEER/EER/COP: _____	_____
12c.	Capacity: _____	_____
13a.	Type: _____	_____
13b.	HSPF/COP/AFUE: _____	_____
13c.	Capacity: _____	_____
14a.	Type: _____	_____
14b.	EF: _____	_____
15a.	_____	_____
15b.	_____	_____
15c.	_____	_____
16.	_____	_____
17.	_____	_____
17a.	_____	17b. _____

<p>I hereby certify that the plans and specifications covered by the calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: _____ DATE: _____</p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER AGENT: _____ DATE: _____</p>	<p>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.</p> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
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SUMMER CALCULATIONS

CLIMATE ZONES 1 2 3

GLASS	ORIENTATION	OVERHANG LENGTH OH (FEET)	GLASS AREA (SQ. FT.)	SINGLE-PANE		OR DOUBLE-PANE		SUMMER OH FACTOR (from 6A-1)	AS-BUILT GLASS SUMMER PTS
				SUMMER POINT MULTIPLIER		SUMMER POINT MULTIPLIER			
				CLEAR	TINT ²	CLEAR	TINT ²		
 <p>OVERHANG RATIO = $\frac{\text{OH LENGTH}}{\text{OH HEIGHT}}$</p>	N			21.73	17.28	19.20	14.84		
	NE			33.55	27.37	29.56	23.48		
	E			47.92	39.62	42.06	33.89		
	SE			48.65	40.24	42.75	34.47		
	S			40.81	33.55	35.87	28.73		
	SW			45.75	37.77	40.16	32.30		
	W			43.84	36.13	38.52	30.93		
	NW			29.42	23.83	25.97	20.48		
	H ¹			84.46	68.97	74.77	59.51		

GLASS	.18	COND FLOOR AREA	x	WEIGHTED GLASS MULTIPLIER	=	BASE GLASS SUBTOTAL
	.18					

AS-BUILT GLASS SUBTOTAL

COMPONENT DESCRIPTION		AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
WALL	EXTERIOR			1.7		
	ADJACENT			.7		

COMPONENT DESCRIPTION		AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS

DOORS		AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
DOORS	EXTERIOR			6.1		
	ADJACENT			2.4		

COMPONENT DESCRIPTION		AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS

CEILING		AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
CEILING	UNDER ATTIC OR SINGLE ASSEMBLY			1.73		

COMPONENT DESCRIPTION		AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS
	RBS/IRCC/white roof ³					

BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING. AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE.

FLOOR		AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
FLOOR	SLAB (PERIMETER)			-37.0		
	RAISED (AREA)			-3.99		

COMPONENT DESCRIPTION		AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS

FOR SLAB ON GRADE USE PERIMETER LENGTH AROUND CONDITIONED FLOOR. FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE.

INFILTRATION & INTERNAL GAINS		AREA	x	BASE SUMMER POINT. MULT.	=	BASE SUMMER POINTS
				10.21		

COMPONENT DESCRIPTION		AREA	x	SUMMER POINT. MULT. (6A-2 THRU 6A-6)	=	AS-BUILT SUMMER POINTS
				10.21		

USE TOTAL FLOOR AREA OF CONDITIONED SPACE.

TOTAL COMPONENT BASE SUMMER POINTS	
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TOTAL COMPONENT AS-BUILT SUMMER POINTS	
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COOLING SYSTEM	Base Cooling System Multiplier	x	Total Base Summer Points	=	BASE COOLING POINTS
	.43				

TOTAL AS-BUILT SUM. PTS.	As-Built DM (6A-8)	x	As-Built DSM (6A-20)	x	As-Built AHU (6A-7)	x	As-Built CSM (6A-9)	x	As-Built CCM (6A-19)	=	AS-BUILT COOLING POINTS
			1.15 or 1.0								

HOT WATER SYSTEM	Number of bedrooms	x	Base Hot Water Multiplier	=	BASE HOT WATER POINTS
			2746		

AS-BUILT HOT WATER SYSTEM DESC.	Number of bedrooms	x	As-Built HWM (6A-22)	x	As-Built HWCM (6A-23)	=	AS-BUILT HOT WATER POINTS

¹H = HORIZONTAL GLASS (SKYLIGHTS)

²FOR GLASS WITH KNOWN SHGC, SEE SECTION 2.1.1 APPENDIX C.

³MUST MEET CRITERIA OF S. 607.1.A.

TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT.

SUMMER POINT MULTIPLIERS (SPM)

CLIMATE ZONES 1 2 3

6A-1 SUMMER OVERHANG FACTORS (SOF) FOR SINGLE AND DOUBLE PANE GLASS.

SELECT BY OR	OH Ratio	.00-11	.12-17	.18-26	.27-35	.36-46	.47-57	.58-70	.71-83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	0.993	0.971	0.930	0.888	0.842	0.803	0.766	0.736	0.681	0.634	0.593
	Northeast	1.00	0.996	0.967	0.907	0.845	0.775	0.717	0.662	0.619	0.545	0.487	0.441
	East	1.00	0.994	0.963	0.898	0.827	0.745	0.675	0.609	0.558	0.470	0.405	0.357
	Southeast	1.00	0.998	0.952	0.864	0.777	0.689	0.623	0.566	0.525	0.459	0.413	0.379
	South	1.00	0.989	0.931	0.835	0.751	0.675	0.620	0.575	0.543	0.493	0.458	0.432
	Southwest	1.00	0.998	0.953	0.866	0.779	0.691	0.623	0.565	0.522	0.453	0.404	0.368
	West	1.00	0.994	0.963	0.899	0.828	0.748	0.681	0.617	0.569	0.485	0.422	0.375
	Northwest	1.00	0.996	0.968	0.913	0.858	0.797	0.748	0.702	0.667	0.605	0.556	0.516
OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'	

6A-2 WALL SUMMER POINT MULTIPLIERS (SPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG		
WOOD		STEEL			INTERIOR INSULATION			EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK			
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	0-6.9	2.4	0-2.9	1.0	R-VALUE	6 INCH	8 INCH
0-6.9	5.5	2.2	7.6	2.8	0-2.9	2.2	1.1	2.2	7-10.9	.6	3-6.9	.6	0-2.9	1.5	1.0
7-10.9	2.1	.8	3.5	1.3	3-4.9	1.3	.8	.8	11-18.9	.4	7-9.9	.4	3-6.9	1.0	.7
11-12.9	1.7	.7	2.7	1.0	5-6.9	1.0	.7	.5	19-25.9	.2	10 & UP	.2	7 & Up	.8	.6
13-18.9	1.5	.6	2.5	0.9	7-10.9	.7	.5	.3	26 & Up	.1					
19-25.9	.9	.4	2.2	0.8	11-18.9	.4	.4	0							
26 & Up	.6	.2	1.2	0.4	19-25.9	.2	.2								
					26 & Up	.1	.1								

NOTE: SEE SECTION 2.0 OF APPENDIX C FOR MULTIPLIERS OF ENVELOPE COMPONENTS NOT ON THIS FORM.

6A-3 DOOR SUMMER POINT MULTIPLIERS (SPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	6.1	2.4
INSULATED	4.1	1.6

6A-4 CEILING SUMMER POINT MULTIPLIERS (SPM)

UNDER ATTIC		SINGLE ASSEMBLY		CONCRETE DECK ROOF		
R-VALUE	SPM	R-VALUE	SPM	R-VALUE	CEILING TYPE	
					EXPOSED	DROPPED
19-21.9	2.34	10-10.9	8.49	10-13.9	9.13	8.47
22-25.9	2.11	11-12.9	7.97	14-20.9	6.80	6.45
26-29.9	1.89	13-18.9	7.14	21 & Up	4.92	4.63
30-37.9	1.73	19-25.9	5.64			
38 & Up	1.52	26-29.9	4.75			
RBS Credit	0.700	30 & Up	4.40			
IRCC Credit	0.849					
White Roof Credit	0.550					

6A-5 FLOOR SUMMER POINT MULTIPLIERS (SPM)

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
R-VALUE	SPM	R-VALUE	SPM	POST OR PIER CONSTRUCTION		STEM WALL w/ UNDER FLOOR INSULATION	ADJACENT
				R-VALUE	SPM	SPM	SPM
0-2.9	-41.2	0-2.9	-8	0-6.9	2.80	-4.7	2.2
3-4.9	-37.2	3-4.9	-1.3	7-10.9	1.34	-2.3	.8
5-6.9	-36.2	5-6.9	-1.3	11-18.9	1.06	-1.9	.7
7 & Up	-35.7	7 & Up	-1.3	19 & Up	.77	-1.5	.4

6A-6 INFILTRATION & INTERNAL GAINS (SPM)

Air Infiltration	3.44
Internal Gains	+ 6.77
Infiltration/Internal Gains (Combined)	10.21

6A-7 AIR HANDLER MULTIPLIERS (SPM)

Located in garage	1.00
Located in conditioned area	0.91
Located on exterior of building	1.02
Located in attic	1.11

6A-8 DUCT MULTIPLIERS (DM) See Table 6-10 for Code minimums.

SUPPLY DUCTS IN:	DUCT R-Value	RETURN DUCTS In:				
		Unconditioned space	Attic/RBS	Attic/IRCC	Attic/White roof	Conditioned space
Unconditioned Space	4.2	1.118	1.111	1.112	1.089	1.107
	6.0	1.090	1.084	1.085	1.066	1.081
	8.0	1.071	1.066	1.067	1.051	1.064
Attic/Radiant Barrier (RBS)	4.2	1.072	1.066	---	---	1.061
	6.0	1.056	1.051	---	---	1.047
	8.0	1.045	1.041	---	---	1.037
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.099	---	1.092	---	1.084
	6.0	1.076	---	1.071	---	1.065
	8.0	1.061	---	1.057	---	1.052
Attic/White Roof	4.2	1.068	---	---	1.096	1.057
	6.0	1.051	---	---	1.071	1.043
	8.0	1.040	---	---	1.055	1.034
Conditioned Space	4.2	1.006	1.005	1.007	1.008	1.000
	6.0	1.005	1.004	1.005	1.006	1.000
	8.0	1.004	1.003	1.004	1.005	1.000

6A-9 COOLING SYSTEM MULTIPLIERS (CSM)

SYSTEM TYPE See Table 6-3 for Code minimums	COOLING SYSTEM MULTIPLIERS (CSM)											
Central Units (SEER)	Rating		7.5-7.9	8.0-8.4	8.5-8.8	8.9-9.4	9.5-9.9	10.0-10.4	10.5-10.9	11.0-11.4	11.5-11.9	12.0-12.4
	CSM		.45	.43	.40	.38	.36	.34	.32	.31	.30	.28
PTAC & Room Units (EER)	Rating	12.5-12.9	13.0-13.4	13.5-13.9	14.0-14.4	14.5-14.9	15.0-15.4	15.5-15.9	16.0-16.4	16.5-16.9	17.0-17.4	17.5 & Up
	CSM	.27	.26	.25	.24	.24	.23	.22	.21	.21	.20	.19

WINTER POINT MULTIPLIERS (WPM)

CLIMATE ZONES 1 2 3

6A-10 WINTER OVERHANG FACTORS (WOF)

SELECT BY OR	OH Ratio	.00-.11	.12-.17	.18-.26	.27-.35	.36-.46	.47-.57	.58-.70	.71-.83	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	1.000	1.001	1.003	1.005	1.009	1.011	1.014	1.016	1.021	1.024	1.027
	Northeast	1.00	0.998	1.001	1.008	1.015	1.023	1.029	1.035	1.040	1.049	1.056	1.061
	East	1.00	1.007	1.018	1.040	1.069	1.109	1.150	1.198	1.242	1.338	1.429	1.507
	Southeast	1.00	1.014	1.043	1.111	1.202	1.332	1.472	1.635	1.787	2.113	2.412	2.650
	South	1.00	0.994	1.032	1.142	1.308	1.563	1.845	2.175	2.471	3.042	3.450	3.661
	Southwest	1.00	1.006	1.025	1.070	1.131	1.217	1.308	1.413	1.508	1.708	1.888	2.031
	West	1.00	1.002	1.010	1.027	1.049	1.077	1.102	1.128	1.149	1.187	1.217	1.238
	Northwest	1.00	0.999	1.000	1.004	1.008	1.012	1.016	1.019	1.022	1.028	1.032	1.036
OH Length	0.0'	1.0'	1.5'	2.0'	3.0'	3.5'	4.5'	5.5'	6.5'	9.5'	14.0'	20.0'	

6A-11 WALL WINTER POINT MULTIPLIERS (WPM)

FRAME					CONCRETE BLOCK (NORMAL WT)				FACE BRICK				LOG			
R-VALUE	WOOD		STEEL		R-VALUE	INTERIOR INSULATION			EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK	R-VALUE	6 INCH	8 INCH
	EXT	ADJ	EXT	ADJ		EXT	ADJ	ADJ								
0-6.9	11.1	10.4	15.1	13.1	0-2.9	11.2	6.8	11.2	7-10.9	4.2	3-6.9	5.7	R-VALUE	EXT	EXT	
7-10.9	4.4	4.4	7.3	6.6	3-4.9	7.3	5.1	5.6	11-18.9	3.5	7-9.9	3.8	0-2.9	4.5	3.0	
11-12.9	3.7	3.6	5.7	5.2	5-6.9	5.7	4.2	4.3	19-25.9	2.2	10 & UP	3.0	3-6.9	2.8	2.2	
13-18.9	3.4	3.3	5.2	4.9	7-10.9	4.6	3.5	3.3	26 & Up	1.4			7 & Up	2.1	1.7	
19-25.9	2.2	2.2	4.6	4.4	11-18.9	3.0	2.6	2.2	<div style="border: 1px solid black; padding: 5px;"> NOTE: SEE SECTION 2.0 OF APPENDIX C FOR MULTIPLIERS OF ENVELOPE COMPONENTS NOT ON THIS FORM. </div>							
26 & Up	1.5	1.5	2.7	2.6	19-25.9	1.9	1.7	26 & Up								1.3

6A-12 DOOR WINTER POINT MULTIPLIERS (WPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	12.3	11.5
INSULATED	8.4	8.0

6A-13 CEILING WINTER POINT MULTIPLIERS (WPM)

UNDER ATTIC		SINGLE ASSEMBLY		CONCRETE DECK ROOF		
R-VALUE	WPM	R-VALUE	WPM	R-VALUE	CEILING TYPE	
					EXPOSED	DROPPED
19-21.9	2.70	10-10.9	2.87	10-13.9	3.16	2.91
22-25.9	2.45	11-12.9	2.70	14-20.9	2.31	2.14
26-29.9	2.22	13-18.9	2.40	21 & Up	1.47	1.47
30-37.9	2.05	19-25.9	1.86			
38 & Up	1.81	26-29.9	1.54			
RBS Credit	0.850	30 & Up	1.43			
IRCC Credit	0.912					
White Roof Credit	1.044					

6A-14 FLOOR WINTER POINT MULTIPLIERS (WPM)

SLAB-ON-GRADE EDGE INSULATION		RAISED CONCRETE		RAISED WOOD			
R-VALUE	WPM	R-VALUE	WPM	POST OR PIER CONSTRUCTION		STEM WALL w/ UNDER FLOOR INSULATION	ADJACENT
				R-VALUE	WPM	WPM	WPM
0-2.9	18.8	0-2.9	9.9	0-6.9	5.77	3.5	10.4
3-4.9	9.3	3-4.9	5.1	7-10.9	2.20	1.6	4.4
5-6.9	7.6	5-6.9	3.6	11-18.9	1.55	1.2	3.6
7 & Up	7.0	7 & Up	2.9	19 & Up	0.88	.8	2.2

6A-15 INFILTRATION & INTERNAL GAINS (WPM)

Air Infiltration	2.13
Internal Gains	- 2.72
Infiltration/Internal Gains (Combined)	-0.58

6A-17 DUCT MULTIPLIERS (DM) See Table 6-10 for Code minimums.

SUPPLY DUCTS IN:	DUCT R-Value	RETURN DUCTS In:				
		Unconditioned space	Attic/RBS	Attic/IRCC	Attic/White roof	Conditioned space
Unconditioned Space	4.2	1.093	1.086	1.088	1.089	1.081
	6.0	1.069	1.064	1.065	1.066	1.060
	8.0	1.053	1.049	1.051	1.051	1.046
Attic/Radiant Barrier (RBS)	4.2	1.067	1.059	---	---	1.052
	6.0	1.051	1.045	---	---	1.040
	8.0	1.040	1.036	---	---	1.032
Attic/Interior Radiation Control Coatings (IRCC)	4.2	1.096	---	1.088	---	1.077
	6.0	1.072	---	1.066	---	1.057
	8.0	1.056	---	1.052	---	1.045
Attic/White Roof	4.2	1.104	---	---	1.096	1.083
	6.0	1.076	---	---	1.071	1.061
	8.0	1.059	---	---	1.055	1.048
Conditioned Space	4.2	1.008	1.007	1.010	1.008	1.000
	6.0	1.006	1.005	1.007	1.006	1.000
	8.0	1.005	1.004	1.006	1.005	1.000

6A-16 AIR HANDLER MULTIPLIERS (WPM)

Located in garage	1.00
Located in conditioned area	0.93
Located on exterior of building	1.07
Located in attic	1.10

6A-18 HEATING SYSTEM MULTIPLIERS (HSM)

SYSTEM TYPE	HEATING SYSTEM MULTIPLIERS (HSM)									
See Tables 6-6 to 6-8 for code minimums	HSPF	6.40-6.79	6.80-6.89	6.90-7.39	7.40-7.89	7.90-8.39	8.40-8.89	8.9-9.39	9.4-9.89	
Central Heat Pump Units	HSM	.53	.50	.49	.46	.43	.41	.38	.36	
	HSPF	9.90-10.39	10.40-10.89	10.90-11.39	11.40-11.89	11.90-12.39	12.40 & up			
PTHP	HSM	.34	.33	.31	.30	.29	.28			
	COP	2.50-2.69	2.70-2.89	2.90-3.09	3.10-3.29	3.30-3.49	3.50-3.69	3.70-3.89	3.90-4.19	
Electric Strip & Gas	HSM	.40	.37	.34	.32	.30	.29	.27	.26	
	1.0 (for gas credit multipliers, see Table 6A-21)									

ADDITIONAL TABLES

CLIMATE ZONES 1 2 3

6A-19 COOLING CREDIT MULTIPLIERS (CCM)

SYSTEM TYPE	Cooling credit multipliers (CCM)
Ceiling Fans	.95*
Cross Ventilation	.95*
Whole House Fan	.95*
Multizone	.95
Programmable Thermostat	.95

*Credit may be taken for only one system type concurrently.

6A-20 AIR DISTRIBUTION SYSTEM CREDIT MULTIPLIERS

TYPE CREDIT	Prescriptive requirements	Multiplier
Airtight Duct credit ¹	610.1.A.1	1.00
Factory-sealed AHU credit ²	610.2.A.2.1	0.95

¹Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.17 (winter) unless Airtight Duct credit is demonstrated by test report.

²Multiply Factory-sealed AHU credit by summer (Table 6A-7) or winter (Table 6A-16) AHU multiplier. Insert total in the "AS-Built AHU" box on page 2 or 4.

6A-21 HEATING CREDIT MULTIPLIERS (HCM)

SYSTEM TYPE	HEATING CREDIT MULTIPLIERS (HCM)							
Programmable Thermostat	HCM	.95						
Multizone	HCM	.95						
Natural Gas	AFUE	.68-.72	.73-.77	.78-.82	.83-.87	.88-.92	.93 & Up	
	HCM	.59	.55	.51	.48	.45	.43	
LP Gas	HCM	.79	.74	.69	.65	.61	.58	

6A-22 HOT WATER MULTIPLIERS (HWM)

SYSTEM TYPE See Table 6-12 for Code minimums	HOT WATER MULTIPLIERS (HWM)												
Electric Resistance	EF					.80-.81	.82-.83	.84-.85	.86-.87	.88-.90	.91-.93	.94-.96	.97 & Up
	HWM					3020	2946	2876	2809	2746	2655	2571	2491
Natural Gas	EF	.43-.47	.48-.49	.50-.51	.52-.53	.54-.55	.56-.57	.58-.59	.60-.61	.62-.63	.64-.65	.66 & Up	
	HWM	2231	1998	1918	1844	1776	1713	1654	1599	1547	1498	1453	
LP Gas	HWM	3029	2713	2605	2505	2411	2326	2245	2171	2101	2035	1973	
Ded. HP or Solar System with Tank	EF	1.0-1.49	1.5-1.99	2.0-2.49	2.5-2.99	3.0-3.49	3.5-3.99	4.0-4.49	4.5-4.99	5.0-Up			
	HWM	2416	1611	1208	966	805	690	604	537	483			

6A-23 HOT WATER CREDIT MULTIPLIERS (HWC)

SYSTEM TYPE	HOT WATER CREDIT MULTIPLIERS (HWC)									
Heat Recovery Unit	With	Air Conditioner				Heat Pump				
	HWC	.84				.78				
Add-on Dedicated Heat Pump (without tank)	EF	2.0-2.49		2.5-2.99		3.0-3.49		3.5 & Up		
	HWC	.44		.35		.29		.25		
Add-on Solar Water Heater (without tank)	EF	1.0-1.9		2.0-2.9		3.0-3.9		4.0-4.9		5.0 & Up
	HWC	.84		.42		.28		.21		.17

NOTE: A HWM must be used in conjunction with all HWC. See Table 6A-22. EF Means Energy Factor.

6A-24 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Max: .3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls & floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Seal: Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with <2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-25 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. 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). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower Heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	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. Ducts in unconditioned attics: R-6 minimum insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings--Min. R-19. Common walls--Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	