

FORM 600A-04R		FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION Residential Whole Building Performance Method A		NORTH 1 2 3
<b>PROJECT NAME: AND ADDRESS:</b>		<b>BUILDER:</b>		
		<b>PERMITTING OFFICE:</b>	<b>CLIMATE ZONE:</b> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>	
<b>OWNER:</b>		<b>PERMIT NO.:</b> <input type="text"/>	<b>JURISDICTION NO.:</b> <input type="text"/>	

Please Type

CK

1. New construction or addition
2. Single-family detached or Multiple-family attached
3. If Multiple-family—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<sup>1</sup> and area: (Label required by 13-104.4.5 if not default)
  - a. U-factor: (or Single- or Double-Pane DEFAULT)
  - b. SHGC: (or Clear or Tint DEFAULT)
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, LP gas, gas h.p., room or PTAC, none)
14. Hot water system:  
(Types: elec., natural gas, solar, LP 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

1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____ sq. ft.	_____
6. _____ ft.	_____
Description      Area	
7a. _____ sq. ft.	_____
7b. _____ 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. _____ sq. ft.	_____
10b. _____ sq. ft.	_____
10c. _____	_____
11a. R = _____, _____ (cond./uncond.)	_____
11b. R = _____, _____ (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. _____	_____

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: \_\_\_\_\_

<sup>1</sup> Predominant glass type. For actual glass type and areas, see summer and winter glass output on Pages 2 and 4.

## SUMMER CALCULATIONS

CLIMATE ZONES 1 2 3

[illegible]

**	GLASS	.18 X	COND FLOOR AREA	X	WEIGHTED GLASS MULTIPLIER	=	BASE GLASS SUBTOTAL	AS-BUILT GLASS SUBTOTAL
		.18			18.59			

[illegible]

DOORS	EXTERIOR		6.1				
	ADJACENT		2.4				

CEILING	UNDER ATTIC OR SINGLE ASSEMBLY		1.73				
					RBS/IRCC/white roof <sup>3</sup>	x ____	
BASE CEILING AREA EQUALS FLOOR AREA DIRECTLY UNDER CEILING, AS-BUILT CEILING AREA EQUALS ACTUAL CEILING SQUARE FOOTAGE.							

FLOOR	SLAB (PERIMETER)		-37.0					
	RAISED (AREA)		-3.99					
	FOR SLAB-ON-GRADE USE PERIMETER LENGTH AROUND CONDITIONED FLOOR. FOR RAISED FLOORS USE AREA OVER UNCONDITIONED SPACE.							

INFILTRATION & INTERNAL GAINS		10.21				10.21	
	USE TOTAL FLOOR AREA OF CONDITIONED SPACE.						

TOTAL COMPONENT BASE SUMMER POINTS		TOTAL COMPONENT AS-BUILT SUMMER POINTS	
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COOLING SYSTEM	Base Cooling System Multiplier	X	Total Base Summer Points	=	BASE COOLING POINTS
	.325				
HOT WATER SYSTEM	Number of bedrooms	X	Base Hot Water Multiplier	=	BASE HOT WATER POINTS
			2635		

<sup>1</sup> H = HORIZONTAL GLASS (SKYLIGHTS)

<sup>2</sup> FOR GLASS WITH KNOWN SHGC, SEE SECTION 2.1.1 APPENDIX C. TINT MULTIPLIERS MAY BE USED FOR GLASS WITH SOLAR SCREENS, FILM, OR TINT.

<sup>3</sup> MUST MEET CRITERIA OF  
S.607.1.A.

**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	CEILING TYPE		
				R-VALUE	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	
				SPM	SPM	SPM	
0-2.9	-41.2	0-2.9	-.8	0-6.9	2.80	-4.7	
3-4.9	-37.2	3-4.9	-1.3	7-10.9	1.34	-2.3	
5-6.9	-36.2	5-6.9	-1.3	11-18.9	1.06	-1.9	
7 & UP	-35.7	7 & UP	-1.3	19 & UP	.77	-1.5	

**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 13-610.1.ABC.2.1 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 13-607.1.ABC.3.2.A,B,D for code minimums		COOLING SYSTEM MULTIPLIERS (CSM)									
	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
Central Units (SEER)	Rating										
	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
	CSM	.27	.26	.25	.24	.24	.23	.22	.21	.20	.19

## WINTER CALCULATIONS

## CLIMATE ZONES 1 2 3

[illegible]

## 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		
WOOD		STEEL			INTERIOR INSULATION			EXT. INSUL.	R-VALUE	WOOD FR	R-VALUE	BLOCK	6 INCH		
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	0-6.9	12.6	0-2.9	7.9	R-VALUE	EXT	EXT
0-6.9	11.1	10.4	15.1	13.1	0-2.9	11.2	6.8	11.2	11-18.9	3.5	7-9.9	3.8	0-2.9	4.5	3.0
7-10.9	4.4	4.4	7.3	6.6	3-4.9	7.3	5.1	5.6	19-25.9	2.2	10 & UP	3.0	3-6.9	2.8	2.2
11-12.9	3.7	3.6	5.7	5.2	5-6.9	5.7	4.2	4.3	26 & UP	1.4			7 & UP	2.1	1.7
13-18.9	3.4	3.3	5.2	4.9	7-10.9	4.6	3.5	3.3							
19-25.9	2.2	2.2	4.6	4.4	11-18.9	3.0	2.6	2.2							
26 & Up	1.5	1.5	2.7	2.6	19-25.9	1.9	1.7								
					26 & UP	1.3	1.2								

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

## 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	CEILING TYPE		
19-21.9	2.70	10-10.9	2.87	R-VALUE	EXPOSED	DROPPED
22-25.9	2.45	11-12.9	2.70	10-13.9	3.16	2.91
26-29.9	2.22	13-18.9	2.40	14-20.9	2.31	2.14
30-37.9	2.05	19-25.9	1.86	21 & UP	1.47	1.47
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	
				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 &amp; INTERNAL GAINS (WPM)

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

## 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-17 DUCT MULTIPLIERS (DM) See Table 13-610.1.ABC.2.1 for code minimums.

SUPPLY DUCTS IN:		RETURN DUCTS IN:				
Unconditioned Space	Duct R-Value	Unconditioned space	Attic/RBS	Attic/IRCC	Attic/White roof	Conditioned 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-18 HEATING SYSTEM MULTIPLIERS (HSM)

SYSTEM TYPE See Table 13-607.1.ABC.3.2 B,D, 13-608.1.ABC.3.2 E,F for code minimums		HEATING SYSTEM MULTIPLIERS (HSM)							
Central Heat Pump Units	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
	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		
	HSM	.34	.33	.31	.30	.29	.28		
PTHP	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
	HSM	.40	.37	.34	.32	.30	.29	.27	.26
Electric Strip & Gas		1.0 (for gas credit multipliers, see Table 6A-21)							

## ADDITIONAL TABLES

## CLIMATE ZONES 1 2 3

6A-19 COOLING CREDIT MULTIPLIERS

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
Air-tight Duct Credit <sup>1</sup>	610.1.A.1	1.00
Factory-sealed AHU Credit <sup>2</sup>	610.2.A.2.1	0.95

<sup>1</sup>Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.17 (winter) unless Air-tight Duct Credit is demonstrated by test report.

<sup>2</sup>Multiply 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 <small>See Table 13-612.1.ABC.3.2 for code minimums</small>		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 (HWCN)

SYSTEM TYPE	HOT WATER CREDIT MULTIPLIERS (HWCN)						
Heat Recovery Unit	With	Air Conditioner			Heat Pump		
	HWCN	.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		
	HWCN	.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	
	HWCN	.84	.42	.28	.21	.17	

NOTE: An HWM must be used in conjunction with all HWCN. 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; .5cfm/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; CFM 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.	
Multistorey 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 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 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.	