FORM 600A-01

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION Residential Whole Building Performance Method A

CENTRAL 4 5 6

P			BUILDER:						
Α	ND ADDRESS:		PERMITTIN	G		CLIMATE			
_			OFFICE:			ZONE:	4 5	6	
0	WNER:		PERMIT NO.:				NO.:		
					Ple	ase Type		СК	
1.	New construction or addition	ı		1.				1	
2.	Single family detached or Mu	ultifamily attached		2.					
3.	If Multifamily—No. of units c	overed by this submis	sion	3.					
4.	Is this a worst case? (yes / no	o)		4.					
5.	Conditioned floor area (sq. ft	.)		5.		sq. ft.			
6.	Predominant eave overhang	(ft.)		6.		ft.			
7.	Glass type and area:				Single Pan	ne Doul	ole Pane		
	a. Clear glass			7a.		_ sq. ft	sq. ft.		
	b. Tint, film or solar scree	en		7b.		_ sq. ft	sq. ft.		
8.	Floor type and insulation:								
	a. Slab-on-grade (R-valu	e + perimeter)		8a.	R=		I. ft.		
	b. Wood, raised (R-value	+ sq. ft.)		8b.	R=		sq. ft.		
~	c. Concrete, raised (R-va	llue)		8C.	R=		sq. ft.		
9.	Net wall type, area and insul	ation:	(aluc)	0			~~ 4		
	a. Exterior: 1. Concr	frame (Insulation R-value)	value)	9a- 9a-3	n=	····· ····	sq. ii.	·	
	2. WOOU 3. Steel:	frame (Insulation R-valu	م) (عد	9a-2 9a-2	2 n= 2 R -		sq. n.		
	4 l og (l)	nsulation R-value)	6)	9a-4	, n 1 B=		sq. n.		
	5 Other			°u		<u> </u>	0q. n.		
	b. Adjacent: 1. Concr	ete block (Insulation R-v	/alue)	9b-1	R=		sq. ft.		
	2. Wood	frame (Insulation R-valu	, (et	9b-2	2 R=		sq. ft.		
	3. Steel	frame (Insulation R-valu	e)	9b-3	3 R=		sq. ft.		
	4. Log (I	nsulation R-value)		9b-4	4 R=	<u> </u>	sq. ft.		
10.	. Ceiling type, area and insula	tion:							
	a. Under attic (Insulation	R-value)		10a	. R=	<u></u>	sq. ft.		
	b. Single assembly (Insu	lation R-value)		10b	. R=		sq. ft.		
	c. Radiant barrier, IRCC,	white roof installed?		10c.	•		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
11.	. Air distribution system:	nation)		110	D_		/ 1/ 1		
	b Air Handler (Location)	Jalion		11a	. n=	,	(cond./uncond.)		
12	Cooling system:			12a	Type:		(cond./uncond.)		
	(Types: central-split, central-single pl	a room unit PTAC das no	ne)	12b	SEER/EE	B/COP:			
				12c	Capacity	:	· · · · · · ·		
13.	. Heating system:			13a	. Type:				
	(Types: heat pump, elec. strip, nat. g	as, L.P. gas, gas h.p., room o	r PTAC, none)	13b	. HSPF/COI	P/AFUE:			
14.	. Hot water system:			13c	. Capacity	:			
	(Types: elec., natural gas, solar, L.P.	gas, none)		14a	. Туре:		<u> </u>		
15.	. Hot Water Credits:			14b	. EF:				
	a. Heat Recovery (HR)			15a	• <u> </u>				
	D. Dedicated Heat Pump(L	/HP)		150	•	· · · · · · · · ·			
16	U. Sulai HVAC Credite			150	• <u></u>	· · · · · · · · ·		<u> </u>	
10.	(Use: CF-Ceiling Fan, CV-Cross vent	PT-Programmable thermosta	ıt	16					
	HF-Whole house fan. MZ-Multizone)		•••			· · · · · · · · ·			
17.	. COMPLIANCE STATUS: (PASS	if As-Built Pts. are less that	an Base Pts.) 17.					
	a. Total As-Built points	b. Total Base poir	nts	17a	•	17b.			
۱ŀ	nereby certify that the plans and specific	ations covered by the calculati	on are in R	eview of	plans and sp	ecifications cov	vered by this ca	alculation	
co	ompliance with the Florida Energy Code.		ir	dicates	compliance v	vith the Florida	Energy Code	. Before	
PF	REPARED BY:	DATE:	C	onstruction	e in accordance	e with Section 55	53.908, F.S.	ected for	
۱h	nereby certify that this building, as designed, is	in compliance with the Florida Er	nergy Code. B	UILDING	OFFICIAL:		·		
		DATE	n	ΔΤΕ·					

Effective date: March 1, 2003

SUMMER CALCULATIONS

CLIMATE ZONES 4 5 6

			ORIENTATION	OVERHANG	GLASS		PANE F MULTIPLIER				AS-BUILT
				OH (FEET)	(SQ. FT.)	CLEAR	TINT2	CLEAR	TINT2	(from 6A-1)	SUMMER PTS
			N			30 19	24.46	26.25	20.63		
			NE			47.10	38.88	40.99	32.90	Notes SUMMER (from 6A-1) AS-BUILT GLASS SUMMER PTS .63	
	<	\leq _	E			63.97	53.27	55.69	45.16		
			SE			61.07	50.80	53.20	43.09		
			S			48.22	39.84	41.92	33.69		
	Н Г		SW			56.99	47.31	49.60	40.08		
	1	ł	W			57.68	47.90	50.22	40.60		
	J		NW			40.72	33.43	35.45	28.29		
S		<u> </u>	H ¹			109.69	89.83	96.56	77.00		
AS											
'											
	OVERHANG	BATIO = OH LENGT									
	0.12.0.0.0.0	OH HEIGH	IT								
											▼
	CON	ID WEIGH	ITED GLASS	BASE							AS-BUILT
ASS	.18 × FLO	OR 🗴 MU	LTIPLIER =	GLASS							GLASS
GL	ARE	A		SUBTOTAL							SUBTOTAL
-	.18		25.78								
		1		V							V
l c	OMPONENT		BASESUMMER	BASE		COMPONE	NT		SUM	18R	AS-BUILT
D	ESCRIPTION	AREA	POINT.MULT.	SUMMER		DESCRIPTI	ON	AREA	X POINT.N	MULT. ≐	SUMMER
			10	POINTS					(6A-21HH	(U6A-6)	OH FACTOR = GLASS (from 6A-1) SUMMER PTS
			1.9		_ -						
AL	ADJAGENT		./								
5											
		1	ļ	V							V
S	EXTERIOR		4.8	,							•
Ь	ADJACENT		1.6								
B B											
	-			▼					-		▼
G	UNDER ATTIC		2.13								
Ž	OR SINGLE										
	ASSEMBLY				l l f	RBS/IRCC/white	e roof ³			x	
U		BASE CEILING AREA	EQUALS FLOOR AREA D	IRECTLY UNDE	R CEILING, A	S-BUILT CEILING	AREA EQUALS	S ACTUAL CEILI	NG SQUARE FO	OTAGE.	
		1	i	▼						i	V
œ	SLAB (PERIMETER)	-31.8								
8	RAISED (AREA)		-3.43		_ -						
-											
		FOR SLAD ON GRADE (UUN. FUN NAISE	D FLOURS US	E AREA OVER U	INCONDITIONEL	J SFAGE.	
INF		1	1/ 01	•					4.4	21	•
			14.51				PACE		14.	ונ	
			0			CONDITIONED OF	NUL.				•
	TOTAL COMPON	ENT BASE SUMME		•		TOTAL CO	MPONENT	AS-BUILT SI		S	•
			▼			V				- !	
		Base Cooling	Total Base	BASE		TOTAL A	s-BuiltA	s-BuiltAs-	Built As-B	uilt As-Bui	tas-built
	OULING	System	Summer =	COOLING	A	S-BUILTx	DM x I	DSM x AF	IU X CSM	x CCM	= COOLING
1	STOLEM	Multiplier	Points	POINTS	SU	M. PTS.	(6A-8) (5A-20) (6	A-7) (6A-	-9) (6A-19	POINTS
1		.43					1.15	5 or 1.0			
L											I
		Number	Raco	RVCE			Number	٨٥	Built	As-Ruilt	
	HOT	of v	Hot Water –	HOT WATER		HOT WATER	of	x HM	/M ¥	HWCM -	HOT WATER
	WATER	bedrooms	Multiplier	POINTS		SYSTEM DESC	bedroom	s (6A-	22)	(6A-23)	POINTS
1	SYSIEM		2564		$\dashv \vdash$	2100.					
${}^{1}H = H($	ORIZONTAL GLAS	S (SKYLIGHTS)	² FOR GLASS WITH TINT MULTIPI IFR	HKNOWN SH	GC, SEE S ED FOR G	ECTION 2.1.1 / LASS WITH SC	APPENDIX C	Ens. film. o	³ MUST MEET R TINT.	CRITERIA OF	S. 607.1.A.

SUMMER POINT MULTIPLIERS (SPM)

CLIMATE ZONES 4 5 6

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

	OH Ratio	.0011	.1217	.1826	.2735	.3646	.4757	.5870	.7183	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
	North	1.00	0.992	0.971	0.931	0.891	0.848	0.811	0.776	0.748	0.695	0.651	0.611
	Northeast	1.00	0.995	0.966	0.908	0.846	0.777	0.719	0.665	0.623	0.549	0.491	0.445
~	East	1.00	0.993	0.964	0.903	0.835	0.755	0.687	0.622	0.571	0.482	0.414	0.463
E I	Southeast	1.00	0.999	0.956	0.871	0.786	0.700	0.635	0.580	0.540	0.478	0.436	0.407
ы К С	South	1.00	0.988	0.935	0.849	0.776	0.708	0.659	0.618	0.588	0.539	0.503	0.475
Щ	Southwest	1.00	0.997	0.956	0.874	0.793	0.709	0.645	0.588	0.547	0.479	0.431	0.396
	West	1.00	0.994	0.964	0.902	0.834	0.757	0.691	0.630	0.582	0.500	0.438	0.391
	Northwest	1.00	0.995	0.966	0.911	0.857	0.798	0.751	0.708	0.674	0.616	0.570	0.532
	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)					FACEB	RICK			100	
					INTERIOR EX			EXT.	R-VALUE	WOOD FR	R-VALUE	BLOCK	LOG		
	WO	OD	STE	EL		INSULA	TION	INSUL.	0-6.9	2.9	0-2.9	1.0		6 INCH	8 INCH
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	7-10.9	.6	3-6.9	.6	R-VALUE	EXT	EXT
0-6.9	6.4	2.2	8.9	2.9	0-2.9	2.5	.9	2.5	11-18.9	.4	7-9.9	.4	0-2.9	1.7	1.0
7-10.9	2.3	.8	4.1	1.3	3-4.9	1.4	.7	.7	19-25.9	.2	10 & UP	.2	3-6.9	1.1	.8
11-12.9	1.9	.7	3.0	1.0	5-6.9	1.0	.6	.3	26 & Up	.1			7 & Up	.8	.7
13-18.9	1.7	.6	2.8	0.9	7-10.9	.8	.4	.1							
19-25.9	19-25.9 1.0 .3 2.4 0.8					.4	.3	0							
26& Up .6 .2 1.3 0.4				0.4	19-25.9	.2	.2]	NOTE:	SEESECTION	2.0 OF APPE	NDIXCFOR	MULTIPLIE	RS
					26 & Up	.1	.1		OF ENVELOPE COMPONENTS NOT ON THIS FORM.						

6A-3 DOOR SUMMER POINT MULTIPLIERS (SPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	7.2	2.4
INSULATED	4.8	1.6

6A-4 CEILING SUMMER POINT MULTIPLIERS (SPM)

UNDER	ATTIC	SINGLE A	SSEMBLY	CON	CRETE DECK F	EETE DECK ROOF CEILING TYPE EXPOSED DROPPED 11.13 10.40 8.42 7.99		
R-VALUE	SPM	R-VALUE	SPM		CEILIN	G TYPE		
19-21.9	2.82	10-10.9	10.27	R-VALUE	EXPOSED	DROPPED		
22-25.9	2.55	11-12.9	9.73	10-13.9	11.13	10.40		
26-29.9	2.28	13-18.9	8.72	14-20.9	8.42	7.99		
30-37.9	2.13	19-25.9	6.90	21 & Up	5.99	5.76		
38 & Up	1.84	26-29.9	5.82					
RBS Credit	0.700	30 & Up	5.40					
IRCC Credit	0.864		1	-				
White Roof C	redit 0.550							

6A-5 FLOOR SUMMER POINT MULTIPLIERS (SPM)

	CRADE	DAIG	ED		RAISED	WOOD	
EDGE INSULATION		CONC	RETE		POST OR PIER CONSTRUCTION	STEM WALL w/ UNDER FLOOR INSULATION	ADJACENT
R-VALUE SPM		R-VALUE	SPM	R-VALUE	SPM	SPM	SPM
0-2.9	-31.9	0-2.9	-1.0	0-6.9	4.50	-5.8	5.3
3-4.9	-31.8	3-4.9	-1.7	7-10.9	2.28	-2.8	2.1
5-6.9	-31.7	5-6.9	-1.7	11-18.9	1.83	-2.2	1.8
7 & Up	-31.6	7 & Up	-1.7	19 & Up	1.36	-1.8	1.0

6A-6 INFILTRATION & INTERNAL GAINS (SPM)

Air Infiltration	5.17
Internal Gains	+ 9.14
Infiltration/Internal Gains	14.31
(Combined)	

6A-7 AIR HANDLER MULTIPLIERS (SPM)

Located in garage	1.00
Located in conditioned area	0.90
Located on exterior of building	1.02
Located in attic	1.10

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

	DUCT		RETURN	DUCTS Ir	1:	
SUPPLY DUCTS IN:	R-Value	Unconditioned space	Attic/ RBS	Attic/ IRCC	Attic/ White roof	Conditioned space
	4.2	1.113	1.107	1.108	1.107	1.103
Unconditioned Space	6.0	1.087	1.081	1.083	1.081	1.079
	8.0	1.069	1.064	1.065	1.064	1.062
	4.2	1.072	1.066			1.061
Attic/Radiant Barrier (RBS)	6.0	1.056	1.051			1.047
	8.0	1.045	1.041			1.038
Attic/Interior Radiation	4.2	1.098		1.092		1.084
Control Coatings (IRCC)	6.0	1.076		1.071		1.065
	8.0	1.060		1.057		1.052
	4.2	1.069			1.063	1.058
Attic/White Roof	6.0	1.052			1.047	1.044
	8.0	1.041			1.037	1.034
	4.2	1.006	1.005	1.007	1.003	1.000
Conditioned Space	6.0	1.005	1.004	1.005	1.002	1.000
	8.0	1.004	1.003	1.004	1.002	1.000

6A-9 COOLING SYSTEM MULTIPLIERS (CSM)

	\											
SYSTEM TYPE See Table 6-3 f	or Code minimums				CO	OLING SYS	TEM MULT	IPLIERS (C	SM)			
Control Unite (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 Unite (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 CALCULATIONS

CLIMATE ZONES 4 5 6

			ORIENTATION	OVERHANG	GLASS	SINGLE-		DR DOUBLE-			AS-BUILT
		_		OH (FEET)	(SQ. FT.)		TINT2			(from 6A-10)	WINTER PTS
			N			15.07	15.38	11.00	11.29		
		r II	NE			14.70	15.07	10.70	11.04		
	_		E			12.37	13.04	8.82	9.46		
	1		SE			10.59	11.49	7.31	8.18		
			S			9.90	10.88	6.74	7.70		
		r i	SW			11.59	12.36	8.12	8.86		
			W			13.25	13.80	9.55	10.07		
		h	NW			14.97	15.30	10.91	11.21		
S			<u>H</u> 1			14.78	15.61	10.20	11.01		
-AS						_					
5											
		- 🔪				_					
	:		\sim								
	Ч _ ч										
		_									
		-			-						▼
S S		D WEIGH	ITED GLASS	BASE							AS-BUILT
Ι¥		∧r x mu ∧ ∣		GLASS							GLASS
σ	18	n	5.86	JUDICIAL							SUBIUIAL
				BASE					WINT	FR	AS-BUILT
	COMPONENT	AREA		WINTER		COMPONENT DESCRIPTION AREA WINTER AS-BUI (6A-11THRU 6A-15) POINT POINT		WINTER			
י ן	ESCRIPTION			POINTS		DESCRIPTI			(6A-11THR	U 6A-15)	POINTS
	EXTERIOR		2.0								
	ADJACENT		1.8								
M N											
				•							•
			5.1								
ğ	ADJAGENT		4.0		-						
				•							T
	LINDER ATTIC		64	•							•
≌	OR SINGLE		.01								
	ASSEMBLY					BS/IBCC/white	e roof ³			x	
Ö		BASE CEILING A	AREA EQUALS FLOOR AR	EA DIRECTLY UND	ER CEILIN	G, AS-BUILT CEIL	ING AREA EQU	ALS ACTUAL CE	ILING SQUARE F	FOOTAGE.	
				▼							▼
~	SLAB (PERIMETER)		-1.9								
Ö	RAISED (AREA)		2		\perp						
<u> </u>											
	l E	-OR SLAB ON GRADE U	JSE PERIMETER LENGTH		IONED FLC	UK. FOR RAISED	FLOORS USE	AREA OVER UN	JUNDITIONED S	PACE.	
			0.20	V			i			00	V
			<u> </u> -υ.∠δ			ONDITIONED SPA	.CF		-0.2	20	
		1	00	V							•
	TOTAL COMPON	ENT BASE WINTE	R POINTS	•		TOTAL CO	MPONENT	AS-BUILT WI	NTER POINTS	S	•
			▼			▼					
		Base Heating	Total Base	BASE		TOTAL A	As-BuiltA	s-BuiltAs	Built As-B	uiltAs-Bui	
		System	Winter =	HEATING	A	S-BUILTx	DM x 1	DSM x A	IU X HSM	x HCM	HEATING
	STSTEW	Multiplier	Points	POINTS	W	IN. PTS.	(6A-17) (<u>6A-2</u> 0) (6)	A-16) (6A-	18) (6A-21) <u>PO</u> INTS
		.63					1.16	6 or 1.0			
			I								I
	BASE	BASE	BASE	TOTAL		AS-BUIL	r T	AS-BUILT	AS-BU	JILT	TOTAL
 	COOLING +	HEATING	+ HOT WATER =	BASE		COOLING	i +	HEATING	+ HOT W/	ATER =	AS-BUILT
0	POINTS	POINTS	POINTS	POINTS		POINTS	»\	POINTS	POIN	IS /=	POINTS
	(FIOM P. 2)		(FIOM P. 2)	(Enter on P. 1)	┥ ┣─	(From P. 2	<u>-</u>)		(From	r.2) (E	
¹ H =	HORIZONTAL GLA	SS (SKYLIGHTS)	² FOR GLASS W	ITH KNOWN SH	IGC, SEE	SECTION 2.1	1 APPENDIX	(C. ³ 1	MUST MEET (CRITERIA OF S	S. 607.1.A.
1			TINT MULTIPLI	ERS MAY BE U	SED FOF	GLASS WITH	SOLAR SCF	REENS, FILM.	OR TINT.		

WINTER POINT MULTIPLIERS (WPM) 6A-10 WINTER OVERHANG FACTORS (WOF)

	OH Ratio	.0011	.1217	.1826	.2735	.3646	.4757	.5870	.7183	.84-1.18	1.19-1.72	1.73-2.73	2.74 & up
CT BY	North	1.00	0.998	0.996	0.995	0.995	0.994	0.993	0.992	0.990	0.988	0.986	0.984
	Northeast	1.00	1.000	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000
	East	1.00	1.005	1.010	1.020	1.034	1.055	1.078	1.106	1.133	1.198	1.264	1.320
	Southeast	1.00	1.010	1.025	1.058	1.102	1.167	1.238	1.324	1.407	1.596	1.783	1.939
ЫЩ	South	1.00	0.994	1.011	1.062	1.040	1.262	1.400	1.562	1.709	1.992	2.192	2.291
W	Southwest	1.00	1.002	1.013	1.038	1.071	1.118	1.168	1.225	1.278	1.388	1.490	1.573
	West	1.00	0.999	1.003	1.013	1.025	1.040	1.053	1.067	1.077	1.095	1.107	1.116
	Northwest	1.00	0.999	0.998	0.997	0.997	0.996	0.995	0.994	0.993	0.992	0.990	0.989
	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				106		
						INTERIOR		EXT.	R-VALUE	WOOD FR	R-VALUE	BLOCK		LUU	
	WO	OD	ST	EEL		INSULA	TION	INSUL.	0-6.9	7.0	0-2.9	3.7		6 INCH	8 INCH
R-VALUE	EXT	ADJ	EXT	ADJ	R-VALUE	EXT	ADJ	EXT	7-10.9	2.1	3-6.9	2.6	R-VALUE	EXT	EXT
0-6.9	6.8	5.3	9.4	6.7	0-2.9	6.0	3.1	6.0	11-18.9	1.7	7-9.9	1.8	0-2.9	2.2	1.2
7-10.9	2.5	2.1	4.4	3.3	3-4.9	3.8	2.3	2.8	19-25.9	1.0	10 & UP	1.3	3-6.9	1.2	.9
11-12.9	2.0	1.8	3.3	2.6	5-6.9	2.9	1.9	2.0	26 & Up	.6			7 & Up	.9	.7
13-18.9	1.8	1.6	3.0	2.4	7-10.9	2.3	1.5	1.5							
19-25.9	1.1	1.0	2.6	2.2	11-18.9	1.5	1.1	.8							
26& Up	.7	.7	1.4	1.2	19-25.9	.8	.7		NOTE: SEE SECTION 2.0 OF APPENDIX C FOR MULTIPLIERS						
					26 & Up	.5	.5			OF EN	/ELOPE COM	PONENTS N	NOT ON THIS	FORM.	

6A-12 DOOR WINTER POINT MULTIPLIERS (WPM)

DOOR TYPE	EXTERIOR	ADJACENT
WOOD	7.6	5.9
INSULATED	5.1	4.0

6A-13 CEILING WINTER POINT MULTIPLIERS (WPM)

UNDER	ATTIC	SINGLE A	SSEMBLY	CON	CRETE DECK F	loof		
R-VALUE	WPM	R-VALUE	WPM		CEILING TYPE			
19-21.9	.87	10-10.9	1.02	R-VALUE	EXPOSED	DROPPED		
22-25.9	.78	11-12.9	.96	10-13.9	1.16	1.05		
26-29.9	.69	13-18.9	.84	14-20.9	.83	.76		
30-37.9	.64	19-25.9	.62	21 & Up	.54	.50		
38 & Up	.55	26-29.9	.50					
RBS Credit	0.850	30 & Up	.46					
IRCC Credit	0.905		•	•				
White Roof C	redit 1.044							

6A-14 FLOOR WINTER POINT MULTIPLIERS (WPM)

SI AB-0N		BAISED				RAISED WOOD								
EDGE INSULATION		CONC	CONCRETE			POST OR PIER CONSTRUCTION	STEM WALL w/ UNDER FLOOR INSULATION	ADJACENT						
R-VALUE	WPM	R-VALUE	WPM		R-VALUE	WPM	WPM	WPM						
0-2.9	2.5	0-2.9	4.0		0-6.9	2.49	1.8	5.3						
3-4.9	-1.7	3-4.9	1.8		7-10.9	0.78	.7	2.1						
5-6.9	-2.4	5-6.9	1.1		11-18.9	0.47	.5	1.8						
7 & Up	-2.7	7 & Up	.8		19 & Up	0.14	.3	1.0						

6A-15 INFILTRATION & INTERNAL GAINS (WPM)

Air Infiltration	0.87
Internal Gains	- 1.15
Infiltration/Internal Gains	-0.28
(Combined)	

6A-16 AIR HANDLER MULTIPLIERS (WPM)

Located in garage	1.00
Located in conditioned area	0.92
Located on exterior of building	1.09
Located in attic	1.11

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

		DUCT			RETURN	DUCTS	ln:	
SUPPLY D	UCTS IN:	R-Value	Un	space	Attic/ RBS	Attic IRCC	/ Attic/ White roof	Conditioned space
		4.2		1.107	1.098	1.10	1.102	1.092
Uncondition	ned Space	6.0		1.078	1.072	1.074	1 1.075	1.068
		8.0		1.061	1.056	1.05	7 1.058	1.052
		4.2		1.076	1.067			1.059
Attic/Radia	nt Barrier (RBS)	6.0		1.058	1.051			1.045
		8.0		1.046	1.041			1.036
	Attic/Interior Radiation			1.097		1.088	3	1.077
Attic/Interio				1.073		1.066	S	1.057
Control Coa	atings (IRCC)	8.0		1.057		1.052	2	1.045
		4.2		1.120			1.110	1.095
Attic/White	roof	6.0		1.088			1.081	1.070
		8.0		1.068			1.063	1.054
		4.2		1.009	1.008	1.010	1.009	1.000
Conditione	d Space	6.0		1.007	1.006	1.00	7 1.007	1.000
		8.0		1.005	1.005	1.006	6 1.005	1.000
HEATING S	SYSTEM MULTI	PLIERS (H	SM)					
6.80-6.89	6.90-7.39	7.40-7.8	9	7.90-8.39	8.40-	8.89	8.9-9.39	9.4-9.89
.50	.49	.46		.43	.4	1	.38	.36
0.40-10.89	10.90-11.39	11.40-11.	89	11.90-12.39	12.40	& up		
33	21	30		20	2	8		

6A-18 HEATING SYSTEM MULTIPLIERS (HSM)

UN-IU HEATING OTOTEM											
SYSTEM TYPE See Tables 6-6 to 6-8 for code minimums HEATING SYSTEM MULTIPLIERS (HSM)											
Central Heat	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		
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				
	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)									

Effective date: March 1, 2003

ADDITIONAL TABLES

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 of these system types 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
Factory-sealed AHU credit ²	610.2.A.2.1	0.95

¹Duct Sealing Multiplier (DSM) shall be 1.15 (summer) or 1.16 (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	.6872	.7377	.7882	.8387	.8892	.93 & Up		
Natural Cas	HCM	.61	.56	.53	.50	.47	.44		
LP Gas	HCM	.77	.72	.67	.63	.60	.57		

6A-22 HOT WATER MULTIPLIERS (HWM)

SYSTEM TYPE See Table 6-12 for Code minimums		HOT WATER MULTIPLIERS (HWM)										
Electric Resistance	EF				.8081	.8283	.8485	.8687	.8890	.9193	.9496	.97 & Up
	HWM				2820	2752	2685	2624	2564	2479	2400	2326
Natural Gas	EF	.4347	.4849	.5051	.5253	.5455	.5657	.5859	.6061	.6263	.6465	.66 & Up
	HWM	2162	1936	1859	1787	1721	1660	1602	1549	1499	1452	1408
LP Gas	HWM	2645	2368	2274	2186	2106	2031	1960	1895	1834	1776	1722
Ded. HP or Solar	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		
System with Tank	HWM	2256	1504	1128	902	752	645	564	501	451		

6A-23 HOT WATER CREDIT MULTIPLIERS (HWCM)

SYSTEM TYPE		HOT WATER CREDIT M	ULTIPLIERS (HWCM)			
Heat Recovery Unit	With	Air Con	Heat Pump			
	HWCM	3.	.78			
Add-on Dedicated Heat Pump (without tank)	EF	2.0-2.49	2.5-2.99	3.0-3.49		3.5 & Up
	HWCM	.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
	HWCM	.84	.42	.28	.21	.17

NOTE: A HWM must be used in conjunction with all HWCM. 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.	