## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Hans Dindial Resid	ence	Builder Name: The Sustainable Design Permit Office	n Group,				
City, State, Zip: Gainesville , FL ,		Permit Officer Permit Number:					
Owner: Hans Dindial		Jurisdiction: Alachua County					
Design Location: FL, Gainesville							
New construction or existing	New (From Plans)	9 Wall Types (1476.0 sqft )	Insulation Area				
-	·	a. Frame - Wood, Exterior	R=19.0 1476.00 ft <sup>2</sup>				
2. Single family or multiple family	Single-family	b N/A	R= ft <sup>2</sup>				
3. Number of units, if multiple family	1	c. N/A	R= ft²				
4. Number of Bedrooms	3	d. N/A	R= ft²				
5 Is this a worst case?	No	10. Ceiling Types (1600.0 sqft) a. Under Attic (Vented)	Insulation Area R≕30.0 1600.00 ft²				
6. Conditioned floor area above grade (ft	²) 1600	b. N/A	R= ft²				
Conditioned floor area below grade (ft	e) 0	c. N/A	R= ft²				
7. Windows(200.0 sqft.) Description	Area	11. Ducts a. Sup <sup>.</sup> Attic, Ret: Attic, AH: ac	R ft² 6 638				
a. U-Factor: Dbl, U=0 36	200.00 ft²	on water a mary recording, and con-					
SHGC. SHGC=0.30		40. Ozalina zastana	L-Pate-the in Page Indonesia				
b. U-Factor: N/A	ft²	12. Cooling systems a. Central Unit	kBtu/hr Efficiency 26.8 SEER:13 00				
SHGC:	p.o	a. Contrai Ont	20.0 OLLIN 10 00				
c. U-Factor: N/A SHGC <sup>-</sup>	ft²	40 11-44	t mi u menala an				
d. U-Factor: N/A	ft²	13. Heating systems a, Electric Heat Pump	kBtu/hr Efficiency 26.4 HSPF:8.20				
SHGC.	**	a, Cieculo i leat Fullip	20,4 113[1:.0.20				
Area Weighted Average Overhang De	oth 2.500 ft.						
Area Weighted Average SHGC.	0.300	14. Hot water systems	Occasi 40 mallone				
8. Floor Types (1600.0 sqft.)	Insulation Area	a. Electric	Cap <sup>.</sup> 40 gallons EF; 0.920				
a. Raised Floor	R=19.0 1600.00 ft <sup>2</sup>	b. Conservation features	Li . 0.020				
b. N/A	R= ft²	None					
c. N/A	R= ft²	15. Credits	CF, Pstat				
	Total Proposed Modifie	d Loads: 33.19	PACC				
Glass/Floor Area: 0.125	Total Standard Reference		PASS				
1 because would stook the plane and on	!f'Alamaquad bu	Deviance of the minus and	CHE ST.				
I hereby certify that the plans and sp this calculation are in compliance wil		Review of the plans and specifications covered by this	OF THE PARTY OF TH				
Code.	•	calculation indicates compliance					
11 W	· DE.	with the Florida Energy Code.	5				
PREPARED BY: 1. M. DATE: 9/17/201	10,1.6.	Before construction is completed					
DATE: 9/17/201	<u>'</u> 3	this building will be inspected for	IS IS				
1		compliance with Section 553.908 Florida Statutes.					
I hereby certify that this building, as	designed, is in compliance	Florida Statutes.	Communication of the				
with the Florida Energy Code.			GOD WE TRUST				
OWNER/AGENT:		BUILDING OFFICIAL:					
DATE:	THE CONTRACT CONTRACT AND ADMINISTRATION OF THE CONTRACT	DATE:					

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with 403.2.2.1.1.
- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist

				PRO	JECT				MARSHARINA MINISTERNA SA SANTAS		
Title. Building Tyl Owner: # of Units: Builder Nan Permit Offic Jurisdiction Family Type New/Existin Comment.	Hans Dindial 1 ne: The Sustainable ce: : Alachua County e: Single-family	e Design Grou	Total S Worst ( Rotate Cross \	oned Area: tories: Case:	3 1600 1 No 0 No No			Address T Lot # Block/Sub PlatBook: Street: County: City, State	Division:	reet Addres achua ainesville ,	S
				CLIN	VIATE						
	Design Location FL, Gainesville	TMY Site		IECC 、 Zone	·	mp 2.5 % 92	Int Desig Winter 70		Heating Degree Days 1305 5		Daily Temp Range Medium
	1 L, Gallesvine	I L_G/MILOVILLE				94.			10000		Mediam
					OCKS						
Number 1	Name Entire House	Area 1600	Volu	me 400			····				
	Entile House	1000	141		\CES						
Number	Name	Area	Volume	Kitchen	Occupai	erina de la composição de	Bedrooms	Infil IC	) Finished	d Coole	d Heat
1	Kitchen	240	2160	Yes	Occupai 1		Deditoriis	1	Yes	Yes	Yes
2	Dining	176	1584	No	0			1	Yes	Yes	Yes
3	Master	224	2016	No	1		1	1	Yes	Yes	Yes
4	Util	72	648	No	0			1	Yes	Yes	Yes
5	ac	24	216	No	0			1	No	Yes	Yes
6	Bath	48	432	No	0			1	No	Yes	Yes
7	BR2	168	1512	No	0		2	1	Yes	Yes	Yes
8	Liv	312	2808	No	1			1	Yes	Yes	Yes
9	Мс	25	225	No	0			1	Yes	Yes	Yes
10	MBath	131	1179	No	0			1	Yes	Yes	Yes
11	Study	180	1620	No	0			1	Yes	Yes	Yes
and a second and a second and a second as the second as				FLC	ORS		i sin a iza azarekan				
<b>/</b> #	Floor Type	Space	ì	Perimeter F	Perimeter R-	Value	Area	Joist R-	Value	Tile Wo	od Carpet
1	Raised Floor	Kito	chen	(0 to an 20	***		240 ft²	19		0 1	0
2	2 Raised Floor	Dia	ning	ph 64 mg 44			176 ft²	19		0 1	0
3	Raised Floor	Ma	ıster		w <sub>m</sub> n w		224 ft²	19		0 1	0
4	Raised Floor	ι	Jtil	****	oly plac giff log		72 ft²	19	ı	0 1	0
6	Raised Floor	ŧ	ac	****	that man pill late		24 ft²	19	1	0 1	0
6	Raised Floor	В	ath				48 ft²	19	1	0 1	0

,						FLOOF	₹S							
V	#	Floor Type		Space	Perime	ter Perin	neter R	l-Valu	e Area	Joist	R-Value	Tile	Wood	Carpet
	7 Ra	ised Floor		BR2					168 ft²		19	0	1	0
	8 Ra	ised Floor		Liv	***		*****		312 ft²		19	0	1	0
	9Ra	ised Floor		Mc	<b>*** *** **</b>		Merica		25 ft²		19	0	1	0
	10Ra	ised Floor		MBath	at ay pa 🖘		****		131 ft²		19	0	1	o
	11Ra	ised Floor		Study			**************************************		180 ft²		19	0	1	0
ROOF														
<b>/</b>	#	Туре	N	laterials	Roof Area	Gable Area		Roof Color	Sola Abso			t Emitt Tested	Decl Insu	
	1	Hip		Metal	1733 ft²	0 ft²	N	lediun	າ 0.75	N	o 0.9	No	30	22.6
ATTIC														
$\checkmark$	#	Туре		Ventilation	V	ent Ratio	o (1 in)		Area	RBS	IRCC			
	1	Full attic		Vented		300			1600 ft²	N	N			
CEILING														
$\vee$	#	Ceiling T	уре	S	pace	R-Value			Area	Fram	ing Frac	T	russ Ty	ре
	1	Under At	tic (Vented)	Kit	chen	30		7	240 ft²		0 1		Wood	
	2	Under At	tic (Vented)	Di	ning	30		•	176 ft²		0 1		Wood	
***************************************	3	Under At	tic (Vented)	Ma	aster	30		2	224 ft²		0.1		Wood	
	4	Under At	tic (Vented)	ŧ	Util 30			72 ft <sup>2</sup> 0.1			Wood			
	5	Under At	tic (Vented)		ac 30			24 ft²			0.1		Wood	
	6	Under At	tic (Vented)	8	ath	30			48 ft²		0 1		Wood	
	7	Under At	tic (Vented)	E	R2	30		•	168 ft²		0.1		Wood	
	8	Under At	tic (Vented)		Liv	30			312 ft²		0 1		Wood	
	9	Under At	tic (Vented)	!	Mc	30			25 ft²		0.1		Wood	
***************************************	10	Under At	tic (Vented)	M	Bath	30			131 ft²		0.1		Wood	İ
	11	Under At	tic (Vented)	S	tudy	30			180 ft²		0.1		Wood	
						WALL	.S		en - May ORC Mark					
<b>√</b> #	Ornt	Adjacent	t Wall Type	S	pace Ca	avity /alue	Width Et	ln	Height Ft_In	Агеа	Sheathing R-Value	Framing Fraction	Solai	Below Grade%
1	SE	Exterior	Frame - Woo				16	0	9 0	144.0 ft <sup>2</sup>	0	0 25	0.8	0
2	sw	Exterior	Frame - Woo	od Kii	chen	19	15	0	9 0	135.0 ft²	0	0.25	0.8	0
3	sw	Exterior	Frame - Woo	od Di	ning	19	11	0	9 0	99.0 ft <sup>2</sup>	0	0.25	0.8	0
4	sw	Exterior	Frame - Woo	od M	aster	19	14	0	9 0	126.0 ft <sup>2</sup>	0	0 25	8.0	0
5	NW	Exterior	Frame - Woo	od M	aster	19	16	0	9 0	144.0 ft <sup>2</sup>	0	0.25	0.8	0
6	SE	Exterior	Frame - Woo	od !	Util	19	12	0	9 0	108.0 ft <sup>2</sup>	0	0.25	0.8	0
7	NE	Exterior	Frame - Woo	od E	BR2	19	14	0	9 0	126.0 ft²	0	0.25	0.8	0
8	SE	Exterior	Frame - Woo	od E	3R2	19	12	0	9 0	108.0 ft²	0	0.25	8.0	0

,				<del>, 1991 (1991)</del>				W	\LLS	ng Thèilige ga Shina							
V	/ #	Ornt		Adjace To	ent —Wall	Туре	Space	Cavity R-Value	Widt Et	h _ln	H Ft	eight In	Area_	Sheathing R-Value	Framing	Solar Abso	
	_ 9	NE	E	cterior		me - Wood	Liv	19	13	0	9	0	117.0 ft <sup>2</sup>		0.25	0.8	0
<b> </b>	10	SW	E)	derior	Fra	ne - Wood	Liv	19	2	0	9	0	18.0 ft²	0	0 25	8.0	0
	_11	NΜ	/ E	kterior	Frai	me - Wood	MBati	າ 19	12	0	9	0	108.0 ft²	0	0.25	8.0	0
DALL PROPERTY.	_12	NE	E	kterior	Fra	ne - Wood	Study	19	15	0	9	0	135.0 ft²	0	0 25	8.0	0
	_13	NW	/ Ex	cterior	Frai	me - Wood	Study	19	12	0	9	0	108.0 ft²	0	0.25	8.0	0
WINDOWS Orientation shown is the entered, Proposed orientation.																	
	/	Marie Carlo Marie		Wall	ar i Militaria di Primati						64 <sub>2</sub> 111572			rhang			
	/ <del></del> -	#	Ornt	ID	Frame	Panes	NFRC	U-Factor	SHGC		<del>-</del>	Area	Depth	Separation	Int Sha	de	Screening
<b> </b>		1	SE	1	Vinyl	Low-E Double	Yes	0.36	0.3			12.0 ft²	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		2	SW	2	Vinyl	Low-E Double	Yes	0.36	0.3			30.0 ft²	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		3	SW	3	Vinyi	Double (Clear)	Yes	0.36	0.3			20.0 ft <sup>2</sup>	2 ft 6 in	1 ft 0 in	None	€	Exterior 5
		4	NM	5	Vinyl	Low-E Double	Yes	0.36	0.3			30.0 ft²	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		5	NE	7	Vinyi	Low-E Double	Yes	0.36	0.3			20.0 ft <sup>2</sup>	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		6	SE	8	Vinyl	Low-E Double	Yes	0 36	0.3			20 0 ft²	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		7	NE	9	TIM	Double (Clear)	Yes	0.36	0.3			20.0 ft²	2 ft 6 in	1 ft 0 in	None	€	None
		8	NW	11	Vinyl	Low-E Double	Yes	0.36	0.3			8.0 ft <sup>2</sup>	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		9	NE	12	Vinyl	Low-E Double	Yes	0.36	0.3			20.0 ft <sup>2</sup>	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
		10	NW	13	Vinyl	Low-E Double	Yes	0.36	0.3			20.0 ft <sup>2</sup>	2 ft 6 in	1 ft 0 in	Drapes/b	linds	Exterior 5
								INFILT	RATIO	N							
#	s	cope		R.	Nethod		SLA	CFM 50	ELA		EqL	A	ACH	AC	H 50		
1	Who	lehous	3 <del>0</del>	Best	Guess	0.00	0500	2098.4	115.20	2	216.	65	0.3850	8.7	433		
	2 3 4 4 5 E							HEATING	3 SYS1	EM		And a market light a partic				#Bivining@lexage	
١,	7	#	Sys	stem T	уре	Su	btype			Efficier	icy	MINISTERNATION ESTA	Capacity			3lock	Ducts
		1			leat Pur					1SPF			6.4 kBtu/hr			1	sys#1
								COOLIN	G SYST	rem							
\/	7	#	Sys	stem T	уре	Su	btype		E	fficienc	СУ	Capa	city /	Air Flow	SHR I	Block	Ducts
		1		ntral U		Sp					<del></del> -	26.8 kB			0.7	1	sys#1
			×		PARADITATION AND PROPERTY OF THE PARADITATION AND PARADIT		ł	OT WAT	ER SY	STEM				6-54-38-38-38-38-38-38-38-38-38-38-38-38-38-		n Steiner (Steine	
V	7	#	S	ystem	Туре	SubType L	_ocation	EF	Cap Use			Use SetPnt			Conservation		
		1	E	lectric	;	None l	Jtil	0.92	40 g:	al	6	0 gal	120 d	eg	No	one	

*					SOL/	AR HOT	T WATER	R SYSTE	M						
<b>/</b>	FSEC Cert #	Company	any Name System Mod			Model#	Co	illector Model		illector Area	Store Volu	_	FEF		
	None	None									ft²				
							DUCTS								
$\checkmark$	#		ıpply R-Value Area	Lo	Retu	rn Area	Leaka	де Туре	Air Handler	CIFIQI125	CFM25 OUT	QN	RLF	HV/ Heat	AC# Cool
	1	Attic	6 638 ft		Attic	638 ft²	Default	Leakage	ac	cfm	(Default)			1	1
TEMPERATURES															
Program	nable Ther	mostat: Y			Cei	ing Fans	:								Leaved of my
Cooling Heating Venting	X Jar X Jar Jar	T Fel	o (X1 Mar	X A	pr [ ] pr pr	May May May	[X] Jun   Jun   Jun	[X] Jul   Jul   Jul	[X] Aug     Aug     Aug	[X] Ser   Ser   Ser		oct Oct Oct	X Nov X Nov X Nov	$\left[ x \right]$	Dec Dec Dec
Thermosta Schedule		le: HERS 2	:006 Reference	2	3	4	5	Ho 6	ours 7	8	9	10	11		12
Cooling (V	VD)	AM PM	78 5 80.5	78.5 80.5	78.5 78.5	78.5 78.5	78 5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	80.5 78.5	80.5 78.5	80 5 78.5	8 7	0.5 8 5
Cooling (V	VEH)	AM PM	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	78.5 78.5	7.7	8.5 8.5
Heating (V	VD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	(	68 66
Heating (V	VEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66
					MEC	CHANIC	CAL VEN	TILATIC	N						
Туре			Supply CFM	Exha	ust CFM	Fan Wa	atts HRV	/ Heating	g System		Run Time	Co	oling Sys	tem	
Runtime \	/ent		40		0		0	1 - Electric	Heat Pump		%	1 - Ce	ntral Uni		

Florida Code Compliance Checklist
Florida Department of Business and Professional Regulations Residential Whole Building Performance Method

ADDDECC	PERMIT #:
ADDRESS:	PERMIT.
	,
Gainesville, FL,	
Carrottino, 1 L,	

### MANDATORY REQUIREMENTS SUMMARY - See individual code sections for full details.

COMPONENT	SECTION	SUMMARY OF REQUIREMENT(S)	CHECK
Air leakage	402.4	To be caulked, gasketed, weatherstripped or otherwise sealed. Recessed lighting IC-rated as meeting ASTM E 283. Windows and doors = 0.30 cfm/sq.ft. Testing or visual inspection required. Fireplaces: gasketed doors & outdoor combustion air. Must complete envelope leakage report or visually verify Table 402.4.2.	/
Thermostat & controls	403.1	At least one thermostat shall be provided for each separate heating and cooling system. Where forced-air furnace is primary system, programmable thermostat is required. Heat pumps with supplemental electric heat must prevent supplemental heat when compressor can meet the load.	V
Ducts	403.2.2	All ducts, air handlers, filter boxes and building cavities which form the primary air containment passageways for air distribution systems shall be considered ducts or plenum chambers, shall be constructed and sealed in accordance with Section 503.2.7.2 of this code.  Building framing cavities shall not be used as supply ducts.	
Water heaters	403.4	Heat trap required for vertical pipe risers. Comply with efficiencies in Table 403.4.3.2. Provide switch or clearly marked circuit breaker (electric) or shutoff (gas). Circulating system pipes insulated to = R-2 + accessible manual OFF switch.	
Mechanical ventilation	403.5	Homes designed to operate at positive pressure or with mechanical ventilation systems shall not exceed the minimum ASHRAE 62 level. No make-up air from attics, crawlspaces, garages or outdoors adjacent to pools or spas.	
Swimming Pools & Spas	403.9	Pool pumps and pool pump motors with a total horsepower (HP) of = 1 HP shall have the capability of operating at two or more speeds. Spas and heated pools must have vapor-retardant covers or a liquid cover or other means proven to reduce heat loss except if 70% of heat from site-recovered energy. Off/timer switch required. Gas heaters minimum thermal efficiency=78% (82% after 4/16/13). Heat pump pool heaters minimum COP= 4.0.	MA
Cooling/heating equipment	403.6	Sizing calculation performed & attached. Minimum efficiencies per Tables 503.2.3. Equipment efficiency verification required. Special occasion cooling or heating capacity requires separate system or variable capacity system. Electric heat >10kW must be divided into two or more stages.	
Ceilings/knee walls	405.2.1	R-19 space permitting.	<b>V</b>

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

### ESTIMATED ENERGY PERFORMANCE INDEX\* = 68

The lower the EnergyPerformance Index, the more efficient the home.

### , Gainesville, FL,

1.	. New construction or existing		New (I	rom Plans)	9. Wall Types	Insulation	. Ar	rea
2	Single family or multiple	family	Single	-family	a. Frame - Wood, Exterior b. N/A	R=19.0 R=	1476.0	00 ft² ft²
3.	Number of units, if multiple family Number of Bedrooms		1		c. N/A	R=		ft²
4			3		d. N/A	R=		ft²
5.	Is this a worst case?		No		10. Ceiling Types a Under Attic (Vented)	Insulation R=30.0	Ar 1600 (	rea 00 ft²
6	Conditioned floor area (f	1600		b. N/A	R=		ft²	
7.	Windows** a. U-Factor. SHGC:	Description Dbl, U=0.36 SHGC=0.30		Area 160.00 ft²	c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: ac	R=	R 6	ft² ft² 638
	b U-Factor. SHGC: c. U-Factor:	Dbl, U=0.36 SHGC=0 29 N/A		40.20 ft²	12. Cooling systems a. Central Unit	kBtu/hr 37.9	Efficie SEER.	-
	SHGC d. U-Factor SHGC Area Weighted Average Area Weighted Average		•	ft² 2 500 ft. 0.298	13. Heating systems a Electric Heat Pump	kBtu/hr 28.2	Efficie HSPF	•
8.	Floor Types a. Raised Floor b. N/A c. N/A		Insulation R=19.0 R= R=	Area 1600.00 ft² ft² ft²	<ul><li>14. Hot water systems</li><li>a Electric</li><li>b. Conservation features</li><li>None</li></ul>	Ca	p: 40 ga EF	allons · 0.92
					15. Credits		CF,	Pstat

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature:	Date:	E.		in Street
Address of New Home:	City/FL Zip:	 B	**************************************	C



\*Note: This is not a Building Energy Rating. If your Index is below 70, your home may qualify for energy efficient mortgage (EEM) incentives if you obtain a Florida EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

\*\*Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.