## FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:

Decker Hanger

Street:

City, State, Zip: Owner:

Lake City , FL , 32055-

Design Location:

FL, Gainesville

Decker

Builder Name: Bryan Zecher Construction

Permit Office: Columbia County

Permit Number:

Jurisdiction:

1.	New construction or exi	isting	New (F	From Plans)	9. Wall Types (1080.0 sqft.)	Insulation	Are	а
2.	Single family or multiple	e family	Single-	-family	a. Frame - Wood, Exterior	R=13.0	720.00	
4. 5.	Number of units, if mult Number of Bedrooms Is this a worst case? Conditioned floor area a Conditioned floor area a	above grade (ft²)	1 1 No 800 0		b. Frame - Wood, Adjacent c. N/A d. N/A 10. Ceiling Types (800.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts	R=19.0 R= R= Insulation R=30.0 R= R=	Are 800.00	ft² ft² a
7.	Windows(73.0 sqft.) a. U-Factor: SHGC:	Description Dbl, U=0.55 SHGC=0.50		Area 73.00 ft²	a. Sup: Attic, Ret: Attic, AH: Main		R 6	160
	b. U-Factor: SHGC:	N/A		ft²	12. Cooling systems a. Central Unit	kBtu/hr 35.0	Efficie SEER:14	
	c. U-Factor: SHGC: d. U-Factor: SHGC:	N/A N/A	v.	ft²	13. Heating systems a. Electric Heat Pump	kBtu/hr 35.0	Efficie HSPF:7	
	Area Weighted Average Area Weighted Average		n:	5.409 ft. 0.500	14. Hot water systems a. Electric	Can	: 40 gall	lons
SOCIETY	Floor Types (800.0 sq a. Slab-On-Grade Edge b. N/A		Insulation R=0.0 R=	Area 800.00 ft <sup>2</sup> ft <sup>2</sup>	b. Conservation features None	Оар	EF: 0.	
	c. N/A		R=	ft²	15. Credits		CF, P	stat

Glass/Floor Area: 0.091

Total Proposed Modified Loads: 15.45

Total Standard Reference Loads: 21.76

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY

DATE:

I hereby certify that this building as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT:

DATE:

Review of the 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 with Section 553.908 Florida Statutes.

BUILDING OFFICIAL: DATE:





i				PROJE	CT						
Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	Decker Hange User Decker 1 Bryan Zecher ( Columbia Cou 121000 Single-family New (From Pla	Construction	Bedrooms Condition Total Stor Worst Ca Rotate Ar Cross Ve Whole Ho	ed Area: ries: se; ngle: ntilation:	1 800 1 No 0		Address Lot # Block/Sul PlatBook Street: County: City, Stat	bDivision: : e, Zip:	Columbi Lake Cit	aches	٠
				CLIMA	TE						
	ign Location Gainesville	TMY Site	Zo	one 97	esign Temp .5 % 2.5 %	Int Desig Winter 70	- 12	Heating Degree Da 1305.5	ys Moi	sign D sture	aily Temp Range Medium
, , ,	Camesville	TL_GAINESVILL	L_NEGI	BLOC	5000 200000	70	75	1305.5			iviedium
Number	Name	Area	Volume								,
1	Block1	800	7200						-		
-				SPAC	ES						
Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil II	) Finish	ed (	Cooled	Heate
1	Main	800	7200	Yes	1	1	1	Yes	,	Yes	Yes
				FLOO	RS						
√ #	Floor Type	Space	e Per	imeter	R-Value	Area			Tile	Wood	Carpet
1 Sla	b-On-Grade Edge	Insulatio M	fain 80	) ft	0	800 ft <sup>2</sup>			0.2	8.0	0
				ROO	F						
√ #	Туре	Materials	Roof Area			Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul	
1	Gable or shed	Composition shin	gles 843 ft <sup>2</sup>	134 ft	<sup>2</sup> Medium	0.96	No	0.9	No	0	18.4
P				ATTI	С						
√ #	Туре	Venti	lation	Vent Ratio	o (1 in)	Area	RBS	IRCC			
1	Full attic	Ver		300		800 ft²	N	N			
				CEILIN	lG						
√ #	Ceiling Type		Space	R-Value	e A	rea	Framing	Truss Type			
1	Under Attic (Ve	ented)	Main	30	80	00 ft²	0.11	1	Wood		

							W	ALLS							
V #	Orn	t	Adjace To		Туре	Spac	e Cavity	Wic Ft		Height Ft In	Area	Sheathing R-Value	Framing Fraction	Solar Absor.	Belov Grade
_ 1	N	1	Exterior	Frai	me - Wood	Main	13	40		9	360 ft <sup>2</sup>		0.23	0.75	C
_ 2	E		Exterior	Fran	me - Wood	Main	13	20		9	180 ft <sup>2</sup>		0.23	0.75	(
_ 3	S		Garage	Frai	me - Wood	Main	19	40		9	360 ft <sup>2</sup>		0.23	0.75	(
_ 4	W	1	Exterior	Fran	me - Wood	Main	13	20	9	9	180 ft²		0.23	0.75	
							DC	ORS			×				<b>N</b>
$\checkmark$	#	- 11	Ornf		Door Type	Space			Storms	U-Val		Width t In	Heigh Ft	t In	Area
	1		E		Insulated	Main			Metal	0.28	3 ;	3 0	6	8	20 ft²
_	2		S		Insulated	Main			Metal	0.4600	000	3 0	6	8	20 ft²
					Or	entation sh	WIN own is the e	DOWS		orientation	n.				
/	Wall								222	Ove	erhang	(100mm) 100mm			
V	#	Orn		Frame	Panes	NFRC	U-Factor			Area		Separation	Int Sha		Screenii
_	1	N	1	Vinyl	Low-E Double	Yes	0.55	0.5		24.88888	8 2 ft 0 in	0 ft 4 in	Drapes/b		None
	2	Е	2	Vinyl	Low-E Double	Yes	0.55	0.5			8 12 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
_	3	N	1	Vinyl	Low-E Double	Yes	0.55	0.5		7.11111	1 2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
_	4	N	1	Vinyl	Low-E Double	Yes	0.55	0.5			3 2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
	5	W	4	Vinyl	Low-E Double	Yes	0.55	0.5		12.44444	4 2 ft 0 in	0 ft 4 in	Drapes/b	olinds	None
							GAI	RAGE							
V	#		Floo	r Area	Ceiling	Area	Exposed \	Nall Per	meter	Avg. W	all Height	Expose	d Wall Ins	sulation	
	1		192	20 ft²	1920	ft²	1	36 ft		1-	4 ft		1		
							INFILT	RATIC	N						
	Scope		N	ethod		SLA	CFM 50	ELA	Е	qLA	ACH	ACH	1 50		
Wh	olehou	se	Best	Guess	0.00	0500	1049.2	57.600	10	8.32	0.3850	8.74	133		
							HEATING	SYS	ГЕМ						
$\bigvee$	#		ystem T			btype			Efficienc	у (	Capacity		E	Block	Ducts
_	1	EI	ectric H	leat Pun	np No	ne		I	HSPF: 7.	7 3	5 kBtu/hr			1	sys#1
							COOLING	G SYS	ГЕМ						
/	#		ystem T		Su	btype		E	fficiency	Capac		10000000000000000000000000000000000000	HR E	Block	Ducts
	1	C	entral U	nit	Sp	lit		5	EER: 14	35 kBtu	ı/hr 10	50 cfm 0	.75	1	sys#1

4					HOT V	VATER S	YSTEM							
$\vee$	#	System Type	SubType	Location	on EF	C	ар	Use	SetPn	t	Co	onservatio	n	
-	1	Electric	None	Main	0.92	2 40	gal	40 gal	120 de	g		None		
				S	OLAR HO	T WATE	R SYST	EM						
· / · .	FSEC									Collect	or Sto	rage		
	Cert #	Company Na	ame		System	n Model #	C	Collector Mod	iel#	Area	Vol	ume	FEF	
	None	None								ft²				
						DUCTS								
1	#	Supp			Return			Air			rcent	Steerillo Littory		AC#
· ·	#		Value Area	Locati	on Area	Leaka	ige Type	Handle	er CFM 2	5 Lea	akage QN	RLF	Heat	Coo
	11	Attic	6 160 ft <sup>2</sup>	Attio	40 ft <sup>2</sup>	Defaul	t Leakage	Main	(Defau	lt) (De	fault) %		1	1
					TEN	IPERATU	RES							
Program	able Ther	mostat: Y			Ceiling Fan	is:								
Cooling Heating	[ ] Jar [X] Jar [ ] Jar	X Feb	Mar Mar	Apr Apr (X) Apr	[ ] May [ ] May	[X] Jun [ ] Jun	[X] Jul   Jul   Jul	[X] Aug   Aug   Aug	[X] S	ep ep ep	Oct	[ ] Nov [X] Nov [X] Nov	M	Dec
Venting	[ ] Jar	i [ ] Feb	[X] Mar [X] Mar	[X] Apr	May	Jun	[ ] Jui	Aug	[ ]š	ер	[X] Oct	X Nov	X	Dec Dec
Thermosta		e: HERS 200	6 Reference				H	lours						
Schedule 1	Туре		1	2 :	3 4	5	6	7	8	9	10	11	1	12
Cooling (V	VD)	AM PM	78 80	78 7 80 7	8 78 8 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	80 78
Cooling (V	VEH)	AM PM	78 78	78 7 78 7	8 78 8 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	7	78 78
Heating (V	VD)	AM PM	66 68	66 6 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	6	58 56
Heating (V	VEH)	AM PM	66 68	66 6 68 6	6 66 8 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66		68 66

FORM 405-10

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

ADDRESS:	
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PERMIT #:

Lake City, FL, 32055-

## 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.	V
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.	V
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.	V
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.	V
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.	N/A
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.	V
Ceilings/knee walls	405.2.1	R-19 space permitting.	./