FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

•			1 10163310116	ai Regulation - Residenti	iai i enormance method								
Project Name:	Dryden Residen	ce		Builder Name:									
Street:	Г			Permit Office:									
City, State, Zip: Owner:	, FL,			Permit Number: Jurisdiction:									
Design Location:	FL, Gainesville			County: columbia(Florida Climate Zone 2)									
_ 55.g.: _5564.511	2, 230070			Journal Committee	2,000								
 New constructio 	n or existing	New (F	rom Plans)	10. Wall Types(1914.0 sqft.)									
2. Single family or	multiple family		Detached	a. Frame - Wood, Exterior	R=13.0 1914.00 ft ²								
3. Number of units	, if multiple family		1	b. N/A c. N/A									
4. Number of Bedr	ooms		3	d. N/A									
5. Is this a worst ca	ase?		No	11. Ceiling Types(1760.0 sq									
6. Conditioned floo	r area above grad	le (ft²)	1760	a. Single assembly, no ai (Ub. N/A	Jnvented) R=30.0 1760.00 ft ²								
Conditioned floo	r area below grad	e (ft²)	0	c. N/A									
7. Windows(132.0	sqft.) Descriptio	n	Area	12. Roof(Metal, Unvent)	Deck R=30.0 1907 ft ²								
a. U-Factor:	Dbl, U=0.2	26	132.00 ft ²	13. Ducts, location & insulation									
SHGC:	SHGC=0.2	20	. 2	a. Sup: Main, Ret: Main, AH	f: Main 6 352								
b. U-Factor: SHGC:	N/A		ft ²	b.									
c. U-Factor:	N/A		ft ²	c. 14. Cooling Systems	kBtu/hr Efficiency								
SHGC:	11/73		10	a. Central Unit	30.0 SEER:15.00								
Area Weighted Av	erage Overhang [Depth:	7.500 ft										
Area Weighted Av	erage SHGC:		0.200										
8. Skylights	Descriptio	n	Area	15. Heating Systems	kBtu/hr Efficiency								
U-Factor:(AVG)	N/A		N/A ft ²	a. Electric Heat Pump	30.0 HSPF:8.50								
SHGC(AVG):	N/A												
Floor Types		Insulation	Area	16. Hot Water Systems									
a. Slab-On-Grade	Edge Insulation	R= 0.0	1760.00 ft ²	a. PropaneTankless	Cap: 1 gallons								
b. N/A c. N/A		R= R=	ft ² ft ²		EF: 0.590								
C. IN/A		N=	11	b. Conservation features	Nana								
				17. Credits	None CF, Pstat								
				17. Orealts	Oi , i stat								
Glass/Floor Area: 0	.075	Total P	roposed Modifie	d Loads: 40.65	D 1 0 C								
<u> </u>			Total Baselir		PASS								
I hereby certify that	the plane and end	ecifications of	overed by	Review of the plans and									
this calculation are				specifications covered by this	OF THE STATE								
Code.	22		37	calculation indicates compliand	ce C								
				with the Florida Energy Code.	S WE								
PREPARED BY: _	('/			Before construction is complet									
DATE:	2-1-23			this building will be inspected to compliance with Section 553.9	or S								
DATE				Florida Statutes.	* * *								
I hereby certify that	this building, as o	lesigned, is ir	n compliance	rionad otatatos.	A CONTRACTOR OF THE PARTY OF TH								
with the Florida End	ergy Code.				OD WE THE								
OWNED/ACENT				BUILDING OFFICIAL:									
DATE:				DATE:									

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance with a proposed duct leakage Qn requires a PERFORMANCE Duct Leakage Test Report confirming duct leakage to outdoors, tested in accordance with ANSI/RESNET/ICC 380, is not greater than 0.030 Qn for whole house.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires a PERFORMANCE envelope leakage test report with envelope leakage no greater than 4.90 ACH50 (R402.4.1.2).

FORM R405-2022S INPUT SUMMARY CHECKLIST REPORT

				PRO	IECT							
Title: Building Type: Owner: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct	Detached New (From Plans)		Bedrooms Condition Total Stor Worst Ca: Rotate An Cross Ver Whole Ho Terrain: Shielding:	ed Area: ies: se: gle: ntilation: use Fan:	3 1760 1 No 0 Rural Moderate	Lot #: Block/ PlatBo Street Count City, S		Street Addr n: columbia , FL,	ess			
				CLIM	ATE							
Design Location		Tmy Site		Desi 97.5%	gn Temp 2.5%	Int Design Winter Su		Heating Degree Days	Design Moisture	Daily temp Range		
FL, Gainesv	rille f	FL_GAINESVILLE	_REGIONA	32	92	70	75	1305.5	51	Medium		
				BLO	CKS							
Number	Name	Area	Volu	ume								
1	Block1	1760	158	40 cu ft								
				SPA	CES							
Number	Name	Area	Volume	Kitchen	Occupant	s Bedro	oms	Finished	Coole	ed Heated		
1	Main	1760	15840	Yes	6	3		Yes	Yes	s Yes		
FLOORS (Total Exposed Area = 1760 sq.ft.)												
√# Floor ⁻	Гуре	Space	Exposed I	Perim I	Perimeter R-V	/alue Area	U-Factor	Joist R-Value	Tile W	lood Carpet		
1 Slab-On	-Grade Edge Ins	Main	174		0	1760 ft	0.563		0.20	0.60 0.20		
				RO	OF							
√# Type		Materials		oof ea	Gable Roo Area Colo		Solar Absor.	SA Emitt Tested	Emitt Tested	Deck Pitch Insul. (deg)		
1 Gable or	r shed	Metal	190)7 ft² 3	ն ն իոքներished, (Galvalur h	0.35	No 0.4	No	30 22.62		
				AT	ГІС							
√# Type		Ventilation	1	Vent R	atio (1 in)	Area	RBS	IRCC				
1 No attic		Unvented			0	1760 ft²	N	N				
				CEIL	ING	(T	otal Exp	oosed Are	a = 170	60 sq.ft.)		
√# Ceiling	д Туре		Space	R-Va	alue Ins. Ty	/pe Area	u U-Fac	ctor Framing	Frac.	Truss Type		
1 Single a	ssembly, no airspace(l	Jnvented)	Main	30	.0 Blow	n 1760.0	0.03 Oft²	32 0.1	1	Wood		

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									W	ALLS	3			(Tota	al Exp	osed	l Are	ea =	191	4 sq.	ft.)
\ #	Ornt	•	cent o	Wall Type			Space			avity ·Value	Width Ft I			ight In	Area sq.ft			eath Value		Solar Absor	Below . Grade
1 2 3 4	N E S W		Exterior Exterior Exterior Exterior	Frame - Wo Frame - Wo Frame - Wo Frame - Wo	od od		N N	lain Iain Iain Iain		13.0 13.0 13.0 13.0	32.0 55.0	0 0 0 0	11.0 11.0 11.0 11.0	0 0	605. 352. 605. 352.	0.09 0.09	94 94		0.23 0.23 0.23 0.23	0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 %
	DOORS (Total Exposed Area = 80 sq.ft.)																				
\ #	Ornt	Ornt Adjacent To Door Type				Space				Storms			U-Value			Width Ft In			ght In	Ar	ea
1 2 3 4	N N S W		Exterio Exterio Exterio Exterio	or Insulate or Insulate	ed ed		Mair Mair Mair Mair))		No No	one one one one		().40).40).40).40	3.0 3.0 3.0 3.0	0 0	6	6.00 6.00 6.00 6.00	8 8 8 8	20. 20. 20. 20.	Oft² Oft²
	WINDOWS (Total Exposed Area = 132 sq.ft.)																				
\sqrt	Ornt	Wall ID	Frame	Panes	N	FRC I	U-Factor	SHGC	Imp	Storm	Total Area (ft²)		ame Inits	Width (ft)	Height (ft)	Ove Depth (ft)		. In	terior	Shade	Screen
1 2 3 4	E E	1 2 2 3	Vinyl Vinyl Vinyl Vinyl	Low-E Double Low-E Double Low-E Double Low-E Double) }	Y Y Y	0.26 0.26 0.26 0.26	0.20 0.20 0.20 0.20	N N N	N N N	24.0 30.0 3.0 75.0		2 2 1 5	4.00 3.00 3.00 3.00	3.00 5.00 1.00 5.00	9.5 1.5 1.5 9.5	2.3 2.3 2.3 2.3	; ;	Nor Nor Nor	ne ne	None None None None
								INF	ILT	RAT	ION										
V #	Scope		Me	ethod		SL	_A (CFM50		ELA	EqL	Α.	A	CH	ACH	50 Spa	ace(s)	1	nfiltrat	ion Tes	t Volume
1	Who	olehou	ise Prop	posed ACH(50)		0.00	028	1294	7	0.97	133.	24	0.1	006	4.9	ı	All	1	5840	cu ft	
									M	ASS											
/ #	Mas	ѕ Тур	е			Ar	ea		T	hicknes	SS		Furnit	ıre Fra	action		Spa	ce			
1	Defa	ault(8	lbs/sq.ft.)			0 1	ft²			0 ft				0.30			Ма	iin			
							ŀ	HEAT	ΓΙΝ	G SY	STE	M									
/ #	Syst	em T	ype		Sub	type/S	Speed	AHR	XI #	Effic	eiency		Capacit kBtu/hr		Geotl ntry F	hermal Power		oump t Cur		ucts	Block
1	Elec	tric H	eat Pump)	No	ne/Si	ngle			HSPF	F: 8.50		30.0			0.00	0.00	0.	00 sy	/s#1	1
							(COOL	LIN	G SY	STE	M									
/ #	Syst	em T	ype		Sub	type/S	Speed	AHR	RI #	Ef	ficiency			apacit Btu/hr	,	Air Flov	N	SHF	2 [Duct	Block
1	Cen	tral Uı	nit		1	None/	Single			SE	ER:15.0)	30.0			900		0.85	i sy	ys#1	1

FORM R405-2022S

INPUT SUMMARY CHECKLIST REPORT

1 Prop Recir Sy1	NoSupp	1	c Control Type	Location		EF(UEF) 0.59 (0.59) Branch length	Cap 1.00 gal Pump power	Use 60 gal DWHR	SetPnt 120 deg Facilitie	Fixture	dard	Pipe Ins		e length		
Recir Sy111	NoSupp	Recir T	c Control	Exterior	Loop length	Branch	Pump							99		
11	NoSupp	1			length			DWHR	Facilitie							
Duct -	Supp				NΑ				Connect			DWHR Eff	Othe	er Credits		
√ # Lo					14/ (NA	NA	No	NA	NA	4	NA	No	ne		
√ # Lo				DUCTS												
1 Main	Joanott P	oly t-Value A		Reteation I	urn R-Value		Leakage 1	- уре	Air Handler	CFM 25 TOT	CFM 25 OUT	S QN	RLF H	HVAC # Heat Cool		
		6.0 352	ít² Main		6.0	88 ft² F	rop. Leak	Free	Main			0.03	0.50	1 1		
					TI	EMPER	RATUF	RES								
Cooling Heating	ble Thermo [] Jan [X] Jan [] Jan	stat: Y [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] N [] N	/lay []	Jun Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] Oc [] Oc [X] Oc	ct [X] Nov K] Nov K] Nov	[] Dec [X] Dec [] Dec		
Thermos Schedule	stat Schedu le Type	ile: HERS 2	2006 Refere 1	ence 2	3	4	5	Hou 6	rs 7	8	9	10	11	12		
Cooling	J (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 8 78		
Cooling	(WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	3 78 3 78		
Heating	ı (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	8 68 66		
Heating	. (\A/\(\tau\)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	8 68 6 66		