DATE 01/14/2004 Columbia County	Building Permit	PERMIT
		000021418
		— FI 32024
The Advance of Advance of the Advanc	e para selectiva e con conservacione. Historia deposada Ruesca — Performent Servacione d	
		— FL 32024
	PHONE	
	ROAD, TL ON BARWICK, TR ON P	ARKER
TYPE DEVELOPMENT SFD,UTILITY EST	TIMATED COST OF CONSTRUCTION	N 48800.00
HEATED FLOOR AREA 976.00 TOTAL ARE	EA 976.00 HEIGHT	00 STORIES 1
FOUNDATION CONC WALLS FRAMED F	ROOF PITCH 4/12	FLOOR SLAB
LAND USE & ZONING A-3	MAX. HEIGHT	12
Minimum Set Back Requirments: STREET-FRONT 30.00	REAR25.00	SIDE 25.00
NO. EX.D.U. 0 FLOOD ZONE X	DEVELOPMENT PERMIT NO.	
PARCEL ID 08-4S-16-02815-004 SUBDIVISIO	N BAWICK	
LOT 3 BLOCK PHASE UNIT	TOTAL ACRES	1.41
	Michel Lle	ellinghour
	 ::	New Perident
	ag checked by Approved for issu	ance New Resident
COMMENTS: ONE OUT ABOVE THE ROAD, NOC ON TIEE		:
COMMENTS: ONE OUT ABOVE THE ROAD, NOC ON TIEE	Check # or	Cash 419
	G DEPARTMENT ONLY	(footer/Slab)
FOR BUILDING & ZONIN	G DEPARTMENT ONLY	(footer/Slab)
FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab	G DEPARTMENT ONLY Monolithic date/app. by Sheathi	(footer/Slab) date/app. by ng/Nailing
FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by	Monolithic date/app. by Sheathi	(footer/Slab) date/app. by
FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by	Monolithic date/app. by Sheathi	(footer/Slab) date/app. by ng/Nailing date/app. by
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This Permit Expires One Year From the Date of Issue		
FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by Framing Rough-in plumbing ab date/app. by Electrical rough-in Heat & Air Duct date/app. by Permanent power C.O. Final date/app. by M/H tie downs, blocking, electricity and plumbing	Monolithic date/app. by Sheathi date/app. by ove slab and below wood floor Peri. beam (Lidate/app. by Culvert ate/app. by Pool	(footer/Slab) date/app. by ng/Nailing date/app. by date/app. by ntel) date/app. by
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FOR BUILDING & ZONIN Temporary Power Foundation date/app. by Under slab rough-in plumbing Slab date/app. by Framing Rough-in plumbing ab date/app. by Electrical rough-in Heat & Air Duct date/app. by Permanent power C.O. Final date/app. by M/H tie downs, blocking, electricity and plumbing date/app. Reconnection Pump pole date/app. by M/H Pole Travel Trailer date/app. by BUILDING PERMIT FEE \$ 245.00 CERTIFICATION FEE	Monolithic date/app. by Sheathi date/app. by ove slab and below wood floor Peri. beam (Lidate/app. by Culvert ate/app. by By Utility Pole date/app. by Ite/app. by Stellar Surchar FIRE FEE \$ WA	(footer/Slab) date/app. by ng/Nailing

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

Building Permit Application

21418

Date 12-23-03 Application No. 03/2 -55 Applicants Name & Address Michele Phone 386-719-7 Kt 2 Box 407 Lake Butler Owners Name & Address Michelo L. Phone By a Bish 400 Lake Butler PL Fee Simple Owners Name & Address Phone Contractors Name & Address Micheli (Owner) Phone Legal Description of Property Barwick Subdivision Location of Property Hwy 90 Driving Directions Barwick Parker Bix to Leonard Tax Parcel Identification No. 08-45 - 16 -02815-004 Estimated Cost of Construction \$_ Type of Development Single Family Number of Existing Dwellings on Property Comprehensive Plan Map Category Zoning Map Category 2 Building Height 1214" 9672 _ Number of Stories Floor Area Total Acreage in Development Distance From Property Lines (Set Backs) Front 250 Side 58'6" Rear_ 125 Flood Zone X Certification Date Development Permit Bonding Company Name & Address Architect/Engineer Name & Address Freeman Design orp 305 & Duval St Mortgage Lenders Name & Address Application is hereby made to obtain a permit to do the work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work will be performed to meet the standards of all laws regulating construction in this jurisdiction. OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws regulating construction and zoning. WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT. Contractor Contractor License Number STATE OF FLORIDA STATE OF FLORIDA COUNTY OF COLUMBIA COUNTY OF COLUMBIA Sworn to (or affirmed) and subscribed before me Sworn to (or affirmed) and subscribed before me _day of _ this_ _ day of _____ by _ Personally Known ____OR Produced Identification Personally Known ____OR Produced Identification

DISCLUSURE STATEMENT

FOR OWNER/BUILDER WHEN ACTING AS THEIR OWN CONTRACTOR AND CLAIMING EXEMPTION OF CONTRACTOR LICENSING REQUIREMENTS IN ACCORDANCE WITH FLORIDA STATUTES, ss. 489.103(7).

State law requires construction to be done by licensed contractors. You have applied for a permit under an exemption to that law. The exemption allows you, as the owner of your property, to act as your own contractor with certain restrictions even though you do not have a license. You must provide direct, onsite supervision of the construction yourself. You may build or improve a one-family or two-family residence or a farm outbuilding. You may also build or improve a commercial building, provided your costs do not exceed \$25,000. The building or residence must be for your own use or occupancy. It may not be built or substantially improved for sale or lease. If you sell or lease a building you have built or substantially improved yourself within 1 year after the construction is complete, the law will presume that you built or substantially improved it for sale or lease, which is a violation of this exemption. You may not hire an unlicensed person to act as your contractor or to supervise people working on your building. It is your responsibility to make sure that people employed by you have licenses required by state law and by county or municipal licensing ordinances. You may not delegate th responsibility for supervising work to a licensed contractor who is not licensed to perform the work being done. Any person working on your building who is not licensed must work under your direct supervision and must be employed by you, which means that you must deduct F.I.C.A. and withholding tax and provide workers' compensation for that employee, all as prescribed by law. Your construction must comply with all applicable laws, ordinances, buildin codes, and zoning regulations.

	TYPE OF CONSTRUCTION
(X) Single Family Dwelling	() Two-Family Residence
() Farm Outbuilding	() Other
(X) New Construction () A I Michael Willingham exemption from contractor licensi	NSTRUCTION OR IMPROVEMENT Addition, Alteration, Modification or other Improvement , have been advised of the above disclosure statement for as an owner/builder. I agree to comply with all
requirements provided for in Flor	ida Statutes ss.489.103(7) allowing this exception for the bia County Building Permit Number
Signature Signature	12-23-03 Date
I	FOR BUILDING USE ONLY
	ed owner/builder has been notified of the disclosure statemen

COLUMBIA COUNTY NOTICE OF COMMENCEMENT

STATE OF FLORIDA

COUNTY OF COLUMBIA

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

	Barwick Subdivision Lot 3 Sect 4 Range 16
2.	General description of improvement: Sungle Family Residence
3.	Owner Information: A. Name and address: Michele L. Willingham - R1 2 Box 407 Kake Butier Pl 32054 B. Interest in property:
_	C. Name and address of fee simple titleholder (if other than owner):
_	address of ree simple titlenoider (if other than owner):
	Contractor: (name and address)
	Contractor: (name and address)
	Contractor: (name and address) Owner
5.	Contractor: (name and address) DWMER Surety A. Name and address:

= - 1	
8. In addition to himself, owner of	4
the Lienor's Notice as provided in Sect	mmencement (the expiration data is 1 year from the
15 26	(Signature of Owner)
SWORN TO and subscribed before	e me this Beday of December
	Notary Public
(NOTARIAL SEAL)	My Commission E Diffes: CC 949260 June 26, 2004 June 26, 2004 June 26, 2004
	GALE TEDDER MY COMMISSION # CC 949260 EXPIRES: June 26, 2004 Bonded Thru Notary Public Underwriters
· ·	Inst:2003027616 Date:12/23/2003 Time:11:43DC,P.DeWitt Cason,Columbia County B:1002 P:2842
o-suc v	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Pro	ect	Name:	:
Add	race	· ·	

Forest Williams Residence

Lot: 3, Sub: Barwick, Plat: 4 page 47

City, State: Owner: Lake City, FL 32055-Michele Willingham

Climate Zone:

North

Builder: Permitting Office: Forest Williams Columbia County

Permit Number:

21418

Jurisdiction Number: 221000

8. a b c c 9. a b c c d d e. 10. a. b c. 11. a.	New construction or existing Single family or multi-family Number of units, if multi-family Number of Bedrooms Is this a worst case? Conditioned floor area (ft²) Glass area & type Clear glass, default U-factor Default tint Labeled U or SHGC Floor types Slab-On-Grade Edge Insulation N/A N/A Wall types Frame, Wood, Exterior N/A N/A N/A N/A Ceiling types Under Attic N/A N/A Ducts Sup: Unc. Ret: Unc. AH: Interior N/A	R=1	New Single family 1 1 1 Yes 976 ft² Double Pane 71.0 ft² 0.0 ft² 0.0 ft² 0.0, 128.0(p) ft 3.0, 1024.0 ft² R=6.0, 50.0 ft	13 14 14	2. Cooling systems a. Central Unit b. N/A c. N/A . Heating systems a. Electric Heat Pump b. N/A c. N/A . Hot water systems a. Electric Resistance b. N/A c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump) HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)	Cap: 36.0 kBtu/hr SEER: 10.00 Cap: 36.0 kBtu/hr HSPF: 6.80 Cap: 50.0 gallons EF: 0.92	

Glass/Floor Area: 0.07

Total as-built points: 11973 Total base points: 13744

PASS

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

PREPARED BY:

William H. Freeman

DATE

2/19/03

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.

LAND COD WE THE

BUILDING OFFIC	IAL:
DATE:	

EnergyGauge® (Version: FLRCPB v3.30)

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055- PERMIT #:

	BASE	Ξ			AS-BUILT									
GLASS TYPE: .18 X Conditi Floor A	oned X E	BSPM =	Points	Type/SC	Ove	erhang Len		Area X	SF	PM X	SOF	= Points		
.18 976	6.0	20.04	3520.6	Double, Clear	E	1.5	4.5		-					
				Double, Clear	E	1.5	4.5	24.0 6.0		2.06	0.85	856.		
				Double, Clear	N	1.0	6.5	16.0		.06	0.85	214.		
				Double, Clear	w	1.5	5.5	16.0	1000	.20	0.98	301.		
				Double, Clear	w	1.5	4.5	9.0	0.7552	.52	0.90	552.		
					•••	1.5	4.5	9.0	30	.52	0.85	294.		
				As-Built Total:				71.0				2218.		
WALL TYPES	Area >	(BSPM	= Points	Туре		R-N	/alue	Area	Х	SPN	Л =	Points		
Adjacent Exterior	0.0 1024.0	0.00 1.70	0.0 1740.8	Frame, Wood, Exterior			13.0	1024.0		1.50		1536.		
	1021.0	1.70	1740.0							0				
Base Total:	1024.0		1740.8	As-Built Total:				1024.0				1536.0		
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	Х	SPN	1 =	Points		
Adjacent	0.0	0.00	0.0	Exterior Insulated			Section.	20.0	-	440				
Exterior	40.0	6.10	244.0	Exterior Insulated				20.0		4.10 4.10		82.0 82.0		
Base Total:	40.0		244.0	As-Built Total:				40.0		4.10		164.0		
CEILING TYPE	S Area X	BSPM	= Points	Туре	R	-Value	• A	rea X S	PM	X SC	M =	Points		
Under Attic	976.0	1.73	1688.5	Under Attic		3	30.0	976.0 1	.73	X 1.00	-	1688.5		
Base Total:	976.0		1688.5	As-Built Total:				976.0				1688.5		
FLOOR TYPES	Area X	BSPM	= Points	Туре		R-V	alue	Area	х	SPM	=	Points		
Slab Raised	128.0(p) 0.0	-37.0 0.00	-4736.0 0.0	Slab-On-Grade Edge Insulation	1		0.0	128.0(p		-41.20		-5273.6		
Base Total:			-4736.0	As-Built Total:				128.0				-5273.6		
INFILTRATION	Area X	BSPM	= Points					Area	X	SPM	=	Points		
<u> </u>	976.0	10.21	9965.0					976.0		10.21		9965,0		

EnergyGauge® DCA Form 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055- PERMIT #:

	AS-BUILT														
Summer Bas	se Poin	2422.9	Summer As-Built Points:								10298.5				
Total Summer Points		tem iplier	=	Cooling Points	Total Component	X	Cap Ratio	0.503	Duct Multiplie	r	System Multiplier		Credit Multiplier	=	Cooling
12422.9	0.42	66	5	299.6	10298.5 10298.5		1.000 1.00	(1.0	90 x 1.147		0.341 0.341		1.000 1.000		3998.9 998.9

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055- PERMIT #:

	BASE	E				AS-	BUI	LT				
GLASS TYPES .18 X Condition Floor A	oned X E	BWPM =	Points	Type/SC	Ove	erhang Len		Area X	W	/PM :	x wc	F = Point
.18 976.	.0	12.74	2238.2	Double, Clear	Е	1.5	4.5	24.0	18	3.79	1.06	478.3
				Double, Clear	E	1.5	4.5	6.0		3.79	1.06	
				Double, Clear	N	1.0	6.5	16.0	24	4.58	1.00	110.0
				Double, Clear	W	1.5	5.5	16.0	20	0.73	1.03	341.0
				Double, Clear	W	1.5	4.5	9.0	20	0.73	1.04	
				As-Built Total:				71.0				1526.8
WALL TYPES	Area X	BWPM	= Points	Туре		R-\	/alue	Area	Х	WP	M =	Points
Adjacent Exterior	0.0 1024.0	0.00 3.70	0.0 3788.8	Frame, Wood, Exterior			13.0	1024.0		3.4	0	3481.6
Base Total:	1024.0		3788.8	As-Built Total:		80		1024.0				3481.6
DOOR TYPES	Area X	BWPM	= Points	Туре			The state of the s	Area	Х	WP	M =	Points
Adjacent	0.0	0.00	0.0	Exterior Insulated				20.0	100	8.4)	168.0
Exterior	40.0	12.30	492.0	Exterior Insulated				20.0		8.40		168.0
Base Total:	40,0		492.0	As-Built Total:				40.0				336.0
CEILING TYPE	SArea X	BWPM	= Points	Туре	R-	Value	Are	a X W	PM	ΧW	CM =	Points
Under Attic	976.0	2.05	2000.8	Under Attic			30.0	976.0	2.05	X 1.00)	2000.8
Base Total:	976.0		2000.8	As-Built Total:				976.0				2000.8
FLOOR TYPES	Area X	BWPM	= Points	Туре		R-V	/alue	Area	х	WPI	VI =	Points
Slab Raised	128.0(p) 0.0	8.9 0.00	1139.2 0.0	Slab-On-Grade Edge Insulation	on		0.0	128.0(p		18.80)	2406.4
Base Total:			1139.2	As-Built Total:				128.0				2406.4
INFILTRATION	Area X	BWPM	= Points					Area	х	WPI	v1 =	Points
	976.0	-0.59	-575.8	+				976.0	0	-0.5	9	-575.8

EnergyGauge® DCA Form 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055- PERMIT #:

			AS-BUILT												
Winter Base	P	oints:		9083.1	Winter As-Built Points:								9175.7		
Total Winter Points	X	System Multipli	= er	Heating Points	Total Component	X	Cap Ratio	X (DA		System Multiplier		Credit Multiplier		eating Points	
9083.1		0.6274		5698.8	9175.7 9175.7		1.000 1.00	(1.0	069 x 1.169 x 0.93	0.501 0.501		1.000 1.000	534 534		

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055- PERMIT #:

	E	BASE			AS-BUILT								
WATER HEA Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	x	Tank X Ratio	Multiplier X	Credit Multipli		
1		2746.00		2746.0	50.0	0.92	1		1.00	2626.61	1.00	2626.6	
					As-Built To	tal:						2626.6	

				CODE	CC	MPLI	ANCE	S7	ATUS	5			
	BASE					AS-BUILT							
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
5300		5699		2746		13744	3999		5348		2627		11973

PASS



EnergyGauge™ DCA Form 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055-

PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum: 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 and 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	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-22 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.	
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 min. 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.	

EnergyGauge™ DCA Form 600A-2001

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.3

The higher the score, the more efficient the home.

Forest Williams, Lot: 3, Sub: Barwick, Plat: 4 page 47, Lake City, FL, 32055-

1.	New construction or existing		New	1	2	Cooling systems		
2.	Single family or multi-family		Single family	_		Central Unit	Cap: 36.0 kBtu/hr	
3.	Number of units, if multi-family		1	-	u .	Contai ont	SEER: 10.00	***************************************
4.	Number of Bedrooms		î		b	N/A	SEEK. 10.00	-
5.	Is this a worst case?		Yes		U.	N/A		-
6.	Conditioned floor area (ft²)		976 ft ²	-		N/A		-
7.	Glass area & type	G: 1 D	AND CONTRACTOR		U.	N/A		-
		Single Pane	Double Pane	1	2	U-F		_
	. Clear - single pane	0.0 ft ²	71.0 ft ²	1		Heating systems		
	Clear - double pane	0.0 ft ²	0.0 ft ²	-	a.	Electric Heat Pump	Cap: 36.0 kBtu/hr	-
	. Tint/other SHGC - single pane	0.0 ft ²	0.0 ft ²		40	****	HSPF: 6.80	_
	. Tint/other SHGC - double pane				b.	N/A		-
8.	2.1		00.1000/0			27/4	ie W	_
	. Slab-On-Grade Edge Insulation	K=	0.0, 128.0(p) ft	_	C.	N/A		_
	. N/A			-		••		_
	. N/A			1		Hot water systems	124 22002 120	
9.	- A			_	a.	Electric Resistance	Cap: 50.0 gallons	
	. Frame, Wood, Exterior	R=1	13.0, 1024.0 ft ²	-			EF: 0.92	_
	o. N/A			-	b.	N/A		
	. N/A			-				_
	I. N/A			-		Conservation credits		_
- 55	. N/A					(HR-Heat recovery, Solar		
	Ceiling types			-		DHP-Dedicated heat pump)		
а	. Under Attic	R=	=30.0, 976.0 ft²	_ 1	5.	HVAC credits		
t	o. N/A			-		(CF-Ceiling fan, CV-Cross ventilation,		
c	. N/A					HF-Whole house fan,		
11.	Ducts			Modern .		PT-Programmable Thermostat,		
а	. Sup: Unc. Ret: Unc. AH: Interior	Sup.	R=6.0, 50.0 ft	-		MZ-C-Multizone cooling,		
b	o. N/A					MZ-H-Multizone heating)		
Co	ertify that this home has comple nstruction through the above en this home before final inspection	nergy saving	features which	ch will b	e ir	nstalled (or exceeded)	OF THE STATE	· Mar
	sed on installed Code complian		and the second s			and College (4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-		S
Du	ilder Signature:			Date				a a a

*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is <u>not</u> a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStat^M designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/487-1824.

Address of New Home:

EnergyGauge® (Version: FLRCPB v3.30)

City/FL Zip:

Residential System Sizing Calculation

Summary

Forest Williams

Lake City, FL 32055-

Project Title: Forest Williams Residence

Code Only Professional Version Climate: North

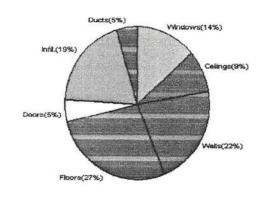
40/40/0000

				12/19/2003	
Location for weather data: St. Aug Humidity data: Interior RH (50%)			atitude(29) Temp Range(M) 78F) Humidity difference(64gr.)		
Winter design temperature	35	F	Summer design temperature	89	F
Winter setpoint	70	F	Summer setpoint	75	F
Winter temperature difference	35	F	Summer temperature difference	14	F
Total heating load calculation	13277	Btuh	Total cooling load calculation	13150	Btuh
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	271.1	36000	Sensible (SHR = 0.5)	176.3	18000
Heat Pump + Auxiliary(0.0kW)	271.1	36000	Latent	611.7	18000
			Total (Electric Heat Pump)	273.8	36000

WINTER CALCULATIONS

Winter Heating Load (for 976 soft)

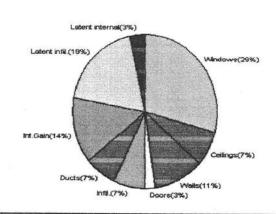
Load component			Load	
Window total	71	sqft	1803	Btuh
Wall total	1024	sqft	2867	Btuh
Door total	40	sqft	658	Btuh
Ceiling total	976	sqft	1171	Btuh
Floor total	128	ft	3635	Btuh
Infiltration	65	cfm	2510	Btuh
Subtotal			12645	Btuh
Duct loss			632	Btuh
TOTAL HEAT LOSS			13277	Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 976 sqft)

Load component			Load	
Window total	71	sqft	3861	Btuh
Wall total	1024	sqft	1454	Btuh
Door total	40	sqft	330	Btuh
Ceiling total	976	sqft	956	Btuh
Floor total			0	Btuh
Infiltration	57	cfm	879	Btuh
Internal gain			1800	Btuh
Subtotal(sensible)			9279	Btuh
Duct gain			928	Btuh
Total sensible gain			10207	Btuh
Latent gain(infiltration)			2483	Btuh
Latent gain(internal)			460	Btuh
Total latent gain			2943	Btuh
TOTAL HEAT GAIN			13150	Btuh



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: Wille // Fue.

DATE: 12/19/03

EnergyGauge® FLRCPB v3.30

System Sizing Calculations - Winter

Residential Load - Component Details

Forest Williams

Project Title: Forest Williams Residence

Code Only Professional Version

Climate: North

Lake City, FL 32055-

Reference City: St. Augustine (Defaults) Winter Temperature Difference: 35.0 F

12/19/2003

Window	Panes/SHGC/Frame/U	Orientation	n Area X	HTM=	Load
1	2, Clear, Metal, DEF	E	24.0	25.4	610 Btuh
2 3 4 5	2, Clear, Metal, DEF	E	6.0	25.4	152 Btuh
3	2, Clear, Metal, DEF	N	16.0	25.4	406 Btuh
4	2, Clear, Metal, DEF	W	16.0	25.4	406 Btuh
5	2, Clear, Metal, DEF	W	9.0	25.4	229 Btuh
	Window Total		71		1803 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1024	2.8	2867 Btuh
	Wall Total		1024		2867 Btuh
Doors	Туре		Area X	HTM=	Load
1	Insulated - Exter		20	16.5	329 Btuh
2	Insulated - Exter		20	16.5	329 Btuh
	Door Total		40		658Btuh
Ceilings	Туре	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	976	1.2	1171 Btuh
	Ceiling Total		976		1171Btuh
Floors	Туре	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	128.0 ft(p)	28.4	3635 Btuh
	Floor Total		128		3635 Btuh
Infiltration	Туре	ACH X	Building Volume	CFM=	Load
	Natural	0.40	9760(sqft)	65	2510 Btuh
	Mechanical		> 2 H to ≥ streets of the set of the streets of the street of the streets of the	0	0 Btuh
	Infiltration Total			65	2510 Btuh

	Subtotal	12645 Btuh
Totals for Heating	Duct Loss(using duct multiplier of 0.05)	632 Btuh
	Total Btuh Loss	13277 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)

(Frame types - metal, wood or insulated metal)

(U - Window U-Factor or 'DEF' for default)

(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

EnergyGauge® FLRCPB v3.30

System Sizing Calculations - Summer

Residential Load - Component Details Project Title:

Forest Williams

Forest Williams Residence

Code Only Professional Version Climate: North

Lake City, FL 32055-

Reference City: St. Augustine (Defaults)

Summer Temperature Difference: 14.0 F

12/19/2003

	Туре	Ove	rhang	Win	dow Are	a(sqft)	Н	ITM	Load	
Window	Panes/SHGC/U/InSh/ExSh Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, N, N E	1.5	4.5	24.0	6.6	17.4	21	70	1355	Btuh
2	2, Clear, DEF, N, N E	1.5	4.5	6.0	0.0	6.0	21	70	420	Btuh
3	2, Clear, DEF, N, N N	1	6.5	16.0	0.0	16.0	21	21	336	Btuh
4	2, Clear, DEF, N, N W	1.5	5.5	16.0	0.0	16.0	21	70	1120	Btuh
5	2, Clear, DEF, N, N W	1.5	4.5	9.0	0.0	9.0	21	70	630	Btuh
	Window Total			71					3861	Btuh
Walls	Туре	R-	Value		A	Area		HTM	Load	
1	Frame - Exterior		13.0		1	024.0		1.4	1454	Btuh
	Wall Total				10	024.0			1454	Btuh
Doors	Туре				F	Area		HTM	Load	
1	Insulated - Exter					20.0		8.2	165	Btuh
2	Insulated - Exter					20.0		8.2	165	Btuh
	Door Total					40.0			330	Btuh
Ceilings	Type/Color	R-	Value		F	Area		HTM	Load	
1	Under Attic/Light		30.0		9	976.0		1.0	956	Btuh
	Ceiling Total				9	76.0			956	Btuh
Floors	Туре	R-	Value			Size		HTM	Load	
1	Slab-On-Grade Edge Insulation		0.0		1	128.0 ft(p)		0.0	0	Btuh
	Floor Total	NI ==			1	28.0			0	Btuh
Infiltration	Туре	A	CH		Vo	lume		CFM=	Load	
	Natural		0.35		9	9760		57.0	879	Btuh
	Mechanical							0	0	Btuh
	Infiltration Total		-					57	879	Btuh

Internal	Occupants	Btuh/occupant			Appliance	Load	
gain	2	X	300	+	1200	1800	Btuh

	Subtotal	9279	Btuh
	Duct gain(using duct multiplier of 0.10)	928	Btuh
	Total sensible gain	10207	Btuh
Totals for Cooling	Latent infiltration gain (for 64 gr. humidity difference)	2483	Btuh
	Latent occupant gain (2 people @ 230 Btuh per person)	460	Btuh
	Latent other gain	0	Btuh
	TOTAL GAIN	13150	Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

EnergyGauge® FLRCPB v3.30



Engineers

Contractors

Designers

January 14, 2004

Harry Dicks Columbia County Building and Zoning Lake City, FL. 32055

Dear Mr. Dicks:

I have inspected the residential structure on Lot #3 Barwick Subdivision for Michele Willingham and Forrest Williams. I certify that the structure meets the requirements of Section 1606 of the Florida Building Code, 2001 edition. Please find a copy of the construction documents indicating As-built construction of the structure. If you have any questions, Please call me at (386) 758-4209.

Sincerely,

William H. Freeman, P.E.

President



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