

Project Name: Bailey Woodfin Res Street: SW CR 232 City, State, Zip: Trenton, FL, 32693 Owner: Design Location: FL, Gainesville	Builder Name: Permit Office: Gilchrist County Permit Number: Jurisdiction: County: Gilchrist(Florida Climate Zone 2)
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<table style="width: 100%;"> <tr> <td style="width: 40%;">1. New construction or existing</td> <td style="width: 60%;">New (From Plans)</td> </tr> <tr> <td>2. Single family or multiple family</td> <td>Detached</td> </tr> <tr> <td>3. Number of units, if multiple family</td> <td>1</td> </tr> <tr> <td>4. Number of Bedrooms</td> <td>3</td> </tr> <tr> <td>5. Is this a worst case?</td> <td>No</td> </tr> <tr> <td>6. Conditioned floor area above grade (ft²)</td> <td>1311</td> </tr> <tr> <td>Conditioned floor area below grade (ft²)</td> <td>0</td> </tr> <tr> <td>7. Windows(122.0 sqft.)</td> <td>Description Area</td> </tr> <tr> <td>a. U-Factor:</td> <td>Dbl, U=0.36 122.00 ft²</td> </tr> <tr> <td>SHGC:</td> <td>SHGC=0.25</td> </tr> <tr> <td>b. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor:</td> <td>N/A ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>2.975 ft</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.250</td> </tr> <tr> <td>8. Skylights</td> <td>Description Area</td> </tr> <tr> <td>U-Factor:(AVG)</td> <td>N/A N/A ft²</td> </tr> <tr> <td>SHGC(AVG):</td> <td>N/A</td> </tr> <tr> <td>9. Floor Types</td> <td>Insulation Area</td> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R= 0.0 1311.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table>	1. New construction or existing	New (From Plans)	2. Single family or multiple family	Detached	3. Number of units, if multiple family	1	4. Number of Bedrooms	3	5. Is this a worst case?	No	6. Conditioned floor area above grade (ft ²)	1311	Conditioned floor area below grade (ft ²)	0	7. Windows(122.0 sqft.)	Description Area	a. U-Factor:	Dbl, U=0.36 122.00 ft ²	SHGC:	SHGC=0.25	b. U-Factor:	N/A ft ²	SHGC:		c. U-Factor:	N/A ft ²	SHGC:		Area Weighted Average Overhang Depth:	2.975 ft	Area Weighted Average SHGC:	0.250	8. Skylights	Description Area	U-Factor:(AVG)	N/A N/A ft ²	SHGC(AVG):	N/A	9. Floor Types	Insulation Area	a. Slab-On-Grade Edge Insulation	R= 0.0 1311.00 ft ²	b. N/A	R= ft ²	c. N/A	R= ft ²	<table style="width: 100%;"> <tr> <td style="width: 40%;">10. Wall Types(1192.0 sqft.)</td> <td style="width: 20%;">Insulation</td> <td style="width: 40%;">Area</td> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0</td> <td>1192.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>d. N/A</td> <td></td> <td></td> </tr> <tr> <td>11. Ceiling Types(1376.0 sqft.)</td> <td>Insulation</td> <td>Area</td> </tr> <tr> <td>a. Flat ceiling under att (Vented)</td> <td>R=38.0</td> <td>1376.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td></td> <td></td> </tr> <tr> <td>c. N/A</td> <td></td> <td></td> </tr> <tr> <td>12. Roof(Comp. Shingles, Vented)</td> <td>Deck R=0.0</td> <td>1420 ft²</td> </tr> <tr> <td>13. Ducts, location & insulation level</td> <td>R</td> <td>ft²</td> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Main</td> <td>6</td> <td>328</td> </tr> <tr> <td>b.</td> <td></td> <td></td> </tr> <tr> <td>c.</td> <td></td> <td></td> </tr> <tr> <td>14. Cooling Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Central Unit</td> <td>15.6</td> <td>SEER:15.00</td> </tr> <tr> <td>15. Heating Systems</td> <td>kBtu/hr</td> <td>Efficiency</td> </tr> <tr> <td>a. Electric Heat Pump</td> <td>19.4</td> <td>HSPF:8.80</td> </tr> <tr> <td>16. Hot Water Systems</td> <td></td> <td></td> </tr> <tr> <td>a. Electric</td> <td></td> <td>Cap: 40 gallons</td> </tr> <tr> <td></td> <td></td> <td>EF: 0.920</td> </tr> <tr> <td>b. Conservation features</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>None</td> </tr> <tr> <td>17. Credits</td> <td></td> <td>CV, Pstat</td> </tr> </table>	10. Wall Types(1192.0 sqft.)	Insulation	Area	a. Frame - Wood, Exterior	R=13.0	1192.00 ft ²	b. N/A			c. N/A			d. N/A			11. Ceiling Types(1376.0 sqft.)	Insulation	Area	a. Flat ceiling under att (Vented)	R=38.0	1376.00 ft ²	b. N/A			c. N/A			12. Roof(Comp. Shingles, Vented)	Deck R=0.0	1420 ft ²	13. Ducts, location & insulation level	R	ft ²	a. Sup: Attic, Ret: Attic, AH: Main	6	328	b.			c.			14. Cooling Systems	kBtu/hr	Efficiency	a. Central Unit	15.6	SEER:15.00	15. Heating Systems	kBtu/hr	Efficiency	a. Electric Heat Pump	19.4	HSPF:8.80	16. Hot Water Systems			a. Electric		Cap: 40 gallons			EF: 0.920	b. Conservation features					None	17. Credits		CV, Pstat
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Glass/Floor Area:0.093	Total Proposed Modified Loads: 32.68	PASS
	Total Baseline Loads: 35.30	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. <div style="text-align: right;"> </div> PREPARED BY: _____ DATE: <u>4 / 24 / 2023</u>	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. <div style="text-align: right;"> </div> BUILDING OFFICIAL: _____ DATE: _____
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I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Tabitha Sibel/Robert Hoag</u> DATE: <u>5/24/23</u>	
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- 4/24/2023 3:15:39 PM EnergyGauge® USA 7.0.00 - FlaRes2020 FBC 7th Edition (2020) Compliant Software Page 1

INPUT SUMMARY CHECKLIST REPORT

PROJECT																								
Title:	Bailey Woodfin Res			Bedrooms:	3		Address type:	Street Address																
Building Type:	User			Conditioned Area:	1311		Lot #:	---																
Owner:				Total Stories:	1		Block/SubDivision:	---																
Builder Name:				Worst Case:	No		PlatBook:	---																
Permit Office:	Gilchrist County			Rotate Angle:	0		Street:	SW CR 232																
Jurisdiction:				Cross Ventilation:	Yes		County:	Gilchrist																
Family Type:	Detached			Whole House Fan:	No		City, State, Zip:	Trenton, FL, 32693																
New/Existing:	New (From Plans)			Terrain:	Suburban																			
Year Construct:	2023			Shielding:	Suburban																			
Comment:																								
CLIMATE																								
✓ Design Location	Tmy Site			Design Temp		97.5% 2.5%		Int Design Temp		Heating Degree Days		Design Moisture		Daily temp Range										
___ FL, Gainesville	FL_GAINESVILLE_REGIONA			32 92		70 75		1305.5		51		Medium												
BLOCKS																								
✓ Number	Name		Area		Volume																			
___ 1	Block1		1311		10488 cu ft																			
SPACES																								
✓ Number	Name		Area		Volume		Kitchen		Occupants		Bedrooms		Finished		Cooled		Heated							
___ 1	Main		1311		10488		Yes		6		3		Yes		Yes		Yes							
FLOORS														(Total Exposed Area = 1311 sq.ft.)										
✓ #	Floor Type		Space		Exposed Perim		Perimeter R-Value		Area		U-Factor		Joist R-Value		Tile		Wood		Carpet					
___ 1	Slab-On-Grade Edge Ins		Main		149		0		1311 ft		0.304		---		0.00		0.00		1.00					
ROOF																								
✓ #	Type		Materials		Roof Area		Gable Area		Roof Color		Rad Barr		Solar Absor.		SA Tested		Emitt		Emitt Tested		Deck Insul.		Pitch (deg)	
___ 1	Gable or shed		Composition shingles		1420 ft²		274 ft²		Medium		Y		0.96		No		0.9		No		0		22.62	
ATTIC																								
✓ #	Type		Ventilation		Vent Ratio (1 in)		Area		RBS		IRCC													
___ 1	Full attic		Vented		300		1311 ft²		Y		N													
CEILING														(Total Exposed Area = 1376 sq.ft.)										
✓ #	Ceiling Type		Space		R-Value		Ins. Type		Area		U-Factor		Framing Frac.		Truss Type									
___ 1	Flat ceiling under attic(Vented)		Main		38.0		Double Batt		1376.0ft²		0.024		0.11		Wood									

INPUT SUMMARY CHECKLIST REPORT

WALLS (Total Exposed Area = 1192 sq.ft.)																
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade	
___ 1	S	Exterior	Frame - Wood	Main	13.0	14.0	0	8.0	0	112.0	0.084		0.23	0.75	0 %	
___ 2	S	Exterior	Frame - Wood	Main	13.0	18.0	0	8.0	0	144.0	0.084		0.23	0.75	0 %	
___ 3	S	Exterior	Frame - Wood	Main	13.0	14.0	0	8.0	0	112.0	0.084		0.23	0.75	0 %	
___ 4	E	Exterior	Frame - Wood	Main	13.0	28.0	6	8.0	0	228.0	0.084		0.23	0.75	0 %	
___ 5	N	Exterior	Frame - Wood	Main	13.0	46.0	0	8.0	0	368.0	0.084		0.23	0.75	0 %	
___ 6	W	Exterior	Frame - Wood	Main	13.0	28.0	6	8.0	0	228.0	0.084		0.23	0.75	0 %	

DOORS (Total Exposed Area = 20 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	S	Exterior	Insulated	Main	None	0.46	3.00	0	6.00	8	20.0ft²	

WINDOWS (Total Exposed Area = 122 sq.ft.)																	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen	
___ 1	S	1	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	0.5	None	None
___ 2	S	2	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	7.5	0.5	None	None
___ 3	S	3	Vinyl	Low-E Double	Y	0.36	0.25	N	N	15.0	1	3.00	5.00	1.5	0.5	None	None
___ 4	E	4	Vinyl	Low-E Double	Y	0.36	0.25	N	N	3.0	1	3.00	1.00	1.5	0.5	None	None
___ 5	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	30.0	2	3.00	5.00	1.5	0.5	None	None
___ 6	N	5	TIM	Low-E Double	Y	0.36	0.25	N	N	20.0	1	3.00	6.67	1.5	0.5	None	None
___ 7	N	5	Vinyl	Low-E Double	Y	0.36	0.25	N	N	9.0	1	3.00	3.00	1.5	0.5	None	None

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00025	874	47.95	90.02	0.0980	5.0	All	10488 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Main

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal Entry	HeatPump Power	-----	Ducts Volt	Block Current
___ 1	Electric Heat Pump	None/Single		HSPF: 8.80	19.4		0.00	0.00	0.00	sys#1

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	None/Single		SEER:15.0	15.6	480	0.70	sys#1	1

INPUT SUMMARY CHECKLIST REPORT**HOT WATER SYSTEM**

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Electric	None	Main	0.92 (0.92)	40.00 gal	40 gal	120 deg	Standard	None	12
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
___ 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

✓ Duct #	-----Supply----- Location R-Value Area	-----Return----- Location R-Value Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat Cool
___ 1 Attic	6.0 328 ft²	Attic 6.0 66 ft²	Default Leakage	Main	(Default)	(Default)			1 1

TEMPERATURES

Programable Thermostat: Y					Ceiling Fans: N								
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec	
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec	
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec	

✓	Thermostat Schedule: HERS 2006 Reference													
	Schedule Type	1	2	3	4	5	6	Hours 7	8	9	10	11	12	
___	Cooling (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 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	78 78
___	Heating (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	68 66
___	Heating (WEH)	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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 93

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

SW CR 232,Trenton,FL,32693

1. New construction or existing	New (From Plans)	10. Wall Types(1192.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	1192.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	3	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	1311	11. Ceiling Types(1376.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=38.0	1376.00 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Dbl, U=0.36	c. N/A		
SHGC:	SHGC=0.25	12. Roof(Comp. Shingles, Vented) Deck	R=0.0	1420 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
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c. U-Factor:	N/A	b.		
SHGC:		c.		
Area Weighted Average Overhang Depth:	2.975 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.250	a. Central Unit	15.6	SEER:15.00
8. Skylights	Description	15. Heating Systems	kBtu/hr	Efficiency
U-Factor:(AVG)	N/A	a. Electric Heat Pump	19.4	HSPF:8.80
SHGC(AVG):	N/A	16. Hot Water Systems		
9. Floor Types	Insulation	a. Electric	Cap: 40 gallons	
a. Slab-On-Grade Edge Insulation	R= 0.0		EF: 0.920	
b. N/A	R=	b. Conservation features		
c. N/A	R=			
		17. Credits	None	
			CV, 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: Tabitha Sibel/Robert Hoag Date: 5/24/23

Address of New Home: SW CR 232 City/FL Zip: Trenton,FL,32693



*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 Energy Rating. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff.

**Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2020 Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction: Columbia County	Permit #: 42596
Job Information	
Builder: Mark Smith	Community: Lot: NA
Address: 1033 SW Little Road	
City: Lake City	State: FL Zip: 32024
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input type="radio"/> PRESCRIPTIVE METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.</div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"><input checked="" type="radio"/> PERFORMANCE or ERI METHOD-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 5.000</div>	
<div style="display: flex; justify-content: space-between; align-items: flex-start;"><div style="width: 60%;">$\frac{3369}{\text{CFM}(50)} \times 60 \div \frac{66874}{\text{Building Volume}} = \frac{3.02}{\text{ACH}(50)}$<div style="text-align: center; margin-top: 10px;"><input checked="" type="checkbox"/> PASS</div><div style="margin-top: 10px;"><input type="checkbox"/> When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.</div></div><div style="width: 35%; padding-left: 20px;"><u>Method for calculating building volume:</u> <input type="radio"/> Retrieved from architectural plans <input checked="" type="radio"/> Code software calculated <input type="radio"/> Field measured and calculated</div></div>	
<p>R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) <i>Florida Statutes</i> or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the <i>code official</i>. Testing shall be performed at any time after creation of all penetrations of the <i>building thermal envelope</i>.</p> <p>During testing:</p> <ol style="list-style-type: none">1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.3. Interior doors, if installed at the time of the test, shall be open.4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.5. Heating and cooling systems, if installed at the time of the test, shall be turned off.6. Supply and return registers, if installed at the time of the test, shall be fully open.	
Testing Company	
<div style="display: flex; justify-content: space-between;"><div>Company Name: <u>Universal Engineering Sciences, LLC</u></div><div>Phone: <u>352.372.3392</u></div></div> <p>I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method specified above.</p> <div style="display: flex; justify-content: space-between; align-items: center;"><div style="width: 45%;"><p>Signature of Tester: <u>Nicholas Gauthier</u></p><p>Printed Name of Tester: <u>Nicholas Gauthier</u></p><p>License/Certification #: <u>24099520</u></p></div><div style="width: 50%; text-align: center;"><p>Digitally signed by Nicholas Gauthier</p><p>Date of Test: <u>6/5/23</u></p><p>Date: <u>2023.06.05 11:14:22</u></p><p><u>-04'00"</u></p><p>Issuing Authority: <u>Retrotec</u></p></div></div>	