

FORM 600A-2004

Energy Gauge® 4.0

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs
Residential Whole Building Performance Method A

Project Name: **BELL**
Address:
City, State:
Owner: **BELL**
Climate Zone: **North**

Builder: **RON CLARK CONST.**
Permitting Office: **Columbia**
Permit Number:
Jurisdiction Number: **221000**

1. New construction or existing **New**
2. Single family or multi-family **Single family**
3. Number of units, if multi-family **1**
4. Number of Bedrooms **3**
5. Is this a worst case? **Yes**
6. Conditioned floor area (ft²) **2035 ft²**
7. Glass type¹ and area: (Label reqd. by 13-104.4.5 if not default)
 - a. U-factor: **Description Area**
(or Single or Double DEFAULT) 7a. (Dble Default) 249.0 ft²
 - b. SHGC:
(or Clear or Tint DEFAULT) 7b. (Clear) 249.0 ft²
8. Floor types
 - a. Slab-On-Grade Edge Insulation **R=0.0, 190.0(p) ft**
 - b. N/A
 - c. N/A
9. Wall types
 - a. Concrete, Int Insul, Exterior **R=4.1, 1540.0 ft²**
 - b. N/A
 - c. N/A
 - d. N/A
 - e. N/A
10. Ceiling types
 - a. Under Attic **R=30.0, 2035.0 ft²**
 - b. Under Attic **R=19.0, 88.0 ft²**
 - c. N/A
11. Ducts
 - a. Sup: Unc. Ret: Unc. AH: Interior **Sup. R=6.0, 288.0 ft**
 - b. N/A

12. Cooling systems
 - a. Central Unit **Cap: 41.0 kBtu/hr
SEER: 13.00**
 - b. N/A
 - c. N/A
13. Heating systems
 - a. Electric Heat Pump **Cap: 40.0 kBtu/hr
HSPF: 7.00**
 - b. N/A
 - c. N/A
14. Hot water systems
 - a. Electric Resistance **Cap: 50.0 gallons
EF: 0.92**
 - b. N/A
 - c. Conservation credits
(HR-Heat recovery, Solar
DHP-Dedicated heat pump)
15. HVAC credits
(CF-Ceiling fan, CV-Cross ventilation,
HF-Whole house fan,
PT-Programmable Thermostat,
MZ-C-Multizone cooling,
MZ-H-Multizone heating)

Glass/Floor Area: 0.12

Total as-built points: 28692

Total base points: 30103

PASS

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

PREPARED BY: SUNCOAST INSULATORSDATE: 8/20/06

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

OWNER/AGENT: Ronald ClarkDATE: 8-20-06

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: _____



¹ Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

FORM 600A-2004

EnergyGauge® 4.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #

BASE				AS-BUILT								
GLASS TYPES												
.18 X Conditioned X BSPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X SPM X SOF = Points					
.18	2035.0	20.04	7340.7	Double, Clear	E	2.0	6.0	96.0	42.06	0.85	3424.4	
				Double, Clear	N	2.0	6.0	50.0	19.20	0.90	864.1	
				Double, Clear	S	2.0	6.0	36.0	35.87	0.78	1002.0	
				Double, Clear	W	2.0	6.0	67.0	38.52	0.85	2192.4	
				As-Built Total:		249.0				7482.9		
WALL TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points					
Adjacent Exterior	0.0 1540.0	0.00 1.70	0.0 2618.0	Concrete, Int Insul, Exterior	4.1		1540.0		1.13		1747.9	
Base Total:		1540.0	2618.0	As-Built Total:		1540.0		1747.9				
DOOR TYPES Area X BSPM = Points				Type	Area X SPM = Points							
Adjacent Exterior	0.0 112.0	0.00 6.10	0.0 683.2	Exterior Insulated			112.0		4.10		459.2	
Base Total:		112.0	683.2	As-Built Total:		112.0		459.2				
CEILING TYPES Area X BSPM = Points				Type	R-Value		Area X SPM X SCM = Points					
Under Attic	2035.0	1.73	3520.6	Under Attic	30.0		2035.0	1.73 X 1.00		3520.6		
				Under Attic	19.0		88.0	2.34 X 1.00		205.9		
Base Total:		2035.0	3520.6	As-Built Total:		2123.0		3726.5				
FLOOR TYPES Area X BSPM = Points				Type	R-Value		Area X SPM = Points					
Slab	190.0(p)	-37.0	-7030.0	Slab-On-Grade Edge Insulation	0.0		190.0(p)	-41.20		-7828.0		
Raised	0.0	0.00	0.0									
Base Total:			-7838.0	As-Built Total:		190.0		-7828.0				
INFILTRATION Area X BSPM = Points				Area X SPM = Points								
	2035.0	10.21	20777.3	2035.0 10.21 20777.3								

FORM 600A-2004

EnergyGauge® 4.0

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
Summer Base Points: 27909.8				Summer As-Built Points: 26365.8						
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio (DM x DSM x AHU)	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points	
27909.8	0.4266	11906.3		(sys 1: Central Unit 41000 btuh ,SEER/EFF(13.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0(INS) 26366 26365.8	1.00 1.00	(1.09 x 1.147 x 0.91) 1.138	0.263 0.263	1.000 1.000	7875.3 7875.3	

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT							
GLASS TYPES											
.18 X Conditioned X BWPM = Points Floor Area				Type/SC	Overhang Omt Len Hgt		Area X WPM X WOF = Point				
.18	2035.0	12.74	4666.7	Double, Clear	E	2.0	6.0	96.0	18.79	1.06	1913.4
				Double, Clear	N	2.0	6.0	50.0	24.58	1.00	1234.6
				Double, Clear	S	2.0	6.0	36.0	13.30	1.26	602.4
				Double, Clear	W	2.0	6.0	67.0	20.73	1.04	1448.1
				As-Built Total:				249.0	5198.6		
WALL TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Adjacent	0.0	0.00	0.0	Concrete, Int Insul, Exterior	4.1		1540.0	6.42	9886.8		
Exterior	1540.0	3.70	5696.0								
Base Total:	1540.0		5696.0	As-Built Total:				1540.0	9886.8		
DOOR TYPES Area X BWPM = Points				Type	Area X WPM = Points						
Adjacent	0.0	0.00	0.0	Exterior Insulated			112.0	8.40	940.8		
Exterior	112.0	12.30	1377.6								
Base Total:	112.0		1377.6	As-Built Total:				112.0	940.8		
CEILING TYPES Area X BWPM = Points				Type	R-Value		Area X WPM X WCM = Points				
Under Attic	2035.0	2.05	4171.8	Under Attic	30.0		2035.0	2.05 X 1.00	4171.8		
				Under Attic	19.0		88.0	2.70 X 1.00	237.6		
Base Total:	2035.0		4171.8	As-Built Total:				2123.0	4409.4		
FLOOR TYPES Area X BWPM = Points				Type	R-Value		Area X WPM = Points				
Slab	190.0(p)	8.9	1691.0	Slab-On-Grade Edge Insulation	0.0		190.0(p)	18.80	3572.0		
Raised	0.0	0.00	0.0								
Base Total:			1691.0	As-Built Total:				190.0	3672.0		
INFILTRATION Area X BWPM = Points				Area X WPM = Points							
	2035.0	-0.59	-1200.6	2035.0 -0.59 -1200.6							

FORM 600A-2004

EnergyGauge® 4.0

WINTER CALCULATIONS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE			AS-BUILT						
Winter Base Points: 16404.4			Winter As-Built Points: 22806.9						
Total Winter Points	X System Multiplier	= Heating Points	Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points	
16404.4	0.6274	10292.1	(sys 1: Electric Heat Pump 40000 btuh ,EFF(7.0) Ducts:Unc(S),Unc(R),Int(AH),R6.0 22806.9	1.000	(1.069 x 1.169 x 0.93)	0.487	1.000	12912.1	
			22806.9	1.00	1.162	0.487	1.000	12912.1	

FORM 600A-2004

EnergyGauge® 4.0

WATER HEATING & CODE COMPLIANCE STATUS**Residential Whole Building Performance Method A - Details**

ADDRESS: , , ,

PERMIT #:

BASE				AS-BUILT						
WATER HEATING										
Number of Bedrooms	X	Multiplier	= Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X Credit	= Total Multiplier
3		2635.00	7905.0	50.0	0.92	3		1.00	2635.00	1.00 7905.0
				As-Built Total: 7905.0						

CODE COMPLIANCE STATUS

BASE					AS-BUILT				
Cooling Points	+	Heating Points	+	Hot Water Points = Total Points	Cooling Points	+	Heating Points	+	Hot Water Points = Total Points
11906		10292		7905 30103	7875		12912		7905 28692

PASS