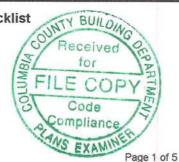
FORM 405-10

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

| | | | 1 | |
|--|---|--|---|---------|
| Project Name: Bocanegra addition Street: 128 SW Erin Glen City, State, Zip: Lake City, FL, 32024- Owner: Jesus & Tracie Bocanega Design Location: FL, Gainesville | | Builder Name: N/A Permit Office: Columbia County Permit Number: Jurisdiction: 72/000 | 1 | |
| 1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms(Bedrms In Addition) 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows(57.5 sqft.) Description a. U-Factor: Dbl, U=0.30 SHGC: SHGC=0.50 b. U-Factor: N/A SHGC: c. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: d. U-Factor: N/A SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: 8. Floor Types (1032.0 sqft.) Ins a. Slab-On-Grade Edge Insulation R= b. N/A R= c. N/A R= | ft² | 9. Wall Types (768.0 sqft.) a. Frame - Wood, Exterior b. N/A c. N/A d. N/A 10. Ceiling Types (1135.0 sqft.) a. Under Attic (Vented) b. N/A c. N/A 11. Ducts a. Sup: Attic, Ret: Attic, AH: Attic 12. Cooling systems a. Central Unit 13. Heating systems a. Electric Heat Pump 14. Hot water systems - a. Electric b. Conservation features None 15. Credits | Insulation Area R=13.0 768.00 ft² R= ft² R= ft² R= ft² Insulation Area R=30.0 1135.00 ft² R= | |
| (dass/Floor Area: () ()56 | Total Proposed Modifier otal Standard Reference | | PASS | |
| I hereby certify that the plans and specificat this calculation are in compliance with the F Code. PREPARED BY: DATE: I hereby certify that this building, as designed with the Florida Energy Code. | lorida Energy | Review of the plans and specifications covered by this calculationindicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. | COD WE TRUST | FLORIDA |

- Compliance requires completion of a Florida Air Barrier and Insulation Inspection Checklist



OWNER/AGENT:_

DATE:

BUILDINGOFFICIAL:

DATE:



| | | | | PROJEC | Т | | | | | | |
|---|--|------------------|---|------------------------|--------------------|-----------------|--|----------------------|--|----------------|---------------|
| Title: Building Type: Owner: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment: | Bocanegra addition FLProp2010 Jesus & Tracie Boc 1 N/A Columbia County Single-family Addition | | Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou | s: 1 e: No le: 0 | o | | Address T Lot # Block/Subi PlatBook: Street: County: City, State | Division: | Street Ad 128 SW Columbia Lake City FL , 3 | Erin Gle | n |
| | | | | CLIMATI | Ξ. | | | | | | |
| √ Desi | ign Location | TMY Site | IEC Zon | | gn Temp % 2.5 % | Int Desig | | Heating Degree Da | | | ily Temp |
| FL, | Gainesville FL | _GAINESVILLE | _REGI 2 | 2 32 | 92 | 70 | 75 | 1305.5 | 5 | 1 | Medium |
| | | | | BLOCKS | 3 | | | | | | |
| Number | Name | Area | Volume | | | / | | | | | |
| 1 | Block1 | 1031 | 8248 | | | | | | | | |
| | | | | SPACES | ; | | | - | | | |
| Number | Name | Area | Volume K | (itchen O | ccupants | Bedrooms | Infil ID |) Finish | ed (| Cooled | Heat |
| 1 | RoomsInBlock1 | 1031 | 8248 | Yes | 0 | 0 | 1 | Yes |) | es/ | Yes |
| | | | | FLOORS | 3 | | | | | | |
| V # | Floor Type | Space | Perir | neter R | -Value | Area | | | Tile | Wood | Carpet |
| 1 Sla | b-On-Grade Edge Insu | ulatio Roomsl | nBlock1 102 | ft | 5 | 1032 ft² | | | 0 | 0 | 1 |
| | | | | ROOF | | | | | | | |
| √ # | Туре | Materials | Roof Area | Gable Area | Roof Color | Solar Absor. | SA Tested | Emitt | Emitt Tested | Deck Insul. | Pitch (deg |
| 1 | Hip Co | omposition shing | les 107 ft² | 0 ft² | Medium | 0.96 | No | 0.9 | No | 0 | 18.4 |
| | | | | ATTIC | | | | | | | |
| V # | Туре | Ventila | ation | Vent Ratio (| 1 in) | Area | RBS | IRCC | | | |
| 1 | Partial cathedral ce | il Vent | ted | 303 | | 102 ft² | N | N | | | |
| | | | | CEILING | ; | | | | | | |
| V # | Ceiling Type | | Space | R-Value | A | rea | Framing | Frac | Tr | uss Type | 9 |
| 1 | Under Attic (Vented | i) R | toomsInBlock1 | 30 | 11 | 35 ft² | 0.11 | 3 | | Wood | |



| | | | | | | | WA | ALLS | | | | | | | |
|-----------|---------|-----|--------------|----------|---------------------|-----------------|-------------------|------------|------------|--------------------|---------------------|-------------------|---------------------|----------------|--------|
| / | # Orni | | Adjace To | | Туре | Space | Cavity R-Value | Wid | | Height Ft In | Area | Sheathing | Framing Fraction | Solar Absor | |
| .V | 1 N | | Exterior | | ne - Wood | RoomsinE | | 30 | | 8 | 240 ft ² | rx-value | 0.23 | 0.75 | Glade |
| | 2 W | | Exterior | Fran | ne - Wood | RoomsinE | | 36 | | 8 | 288 ft ² | | 0.23 | 0.75 | |
| | 3 S | | Exterior | Fran | ne - Wood | RoomsInB | loc 13 | 30 | | 8 | 240 ft² | | 0.23 | 0.75 | |
| | | - | | | | | DO | ORS | | | | | | | |
| $\sqrt{}$ | # | | Ornt | | Door Type | Space | | | Storms | U-Val | ue F | Width t In | Heigh Ft | t In | Area |
| | . 1 | | W | | Insulated | RoomsInBlo | С | | Metal | 0.4600 | - 10 | | 6 | 8 | 20 ft² |
| - | | - | | | a was all the state | | | DOWS | | | | | | | |
| , | | - N | Wall | - Vella | | Drientation sho | own is the e | entered, I | Proposed | orientation | | rhang | | | |
| $\sqrt{}$ | # | Orr | | Frame | Panes | NFRC | U-Factor | SHGC | Storms | Area | | Separation | Int Sh | ade | Screen |
| | 1 | N | 1 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 12.5 ft² | 1 ft 6 in | 1 ft 0 in | HERS : | 2006 | None |
| | 2 | s | 3 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 45 ft² | 1 ft 6 in | 1 ft 0 in | HERS 2 | 2006 | None |
| | | | | | | | INFILT | RATIO | ON | | | | | | |
| | Scope | | N | Method | | SLA | CFM 50 | ELA | E | iqLA | ACH | ACI | H 50 | | |
| Е | 3ySpace | s | Best | Guess | 0.0 | 000500 | 1352.1 | 74.232 | | 39.60 | 0.3850 | 9.8 | 363 | | _ |
| | | | | | | | HEATIN | GSYS | TEM | | V-1-VI-1 | | | | |
| V | # | 5 | ystem T | уре | 5 | Subtype | | | Efficienc | у | Capacity | | | Block | Ducts |
| | . 1 | E | lectric F | leat Pur | mp N | lone | | | HSPF: 7 | .7 11 | .1 kBtu/hr | U. | | 1 | sys# |
| | | | | | | | COOLIN | GSYS | TEM | | | | | | |
| \vee | # | 5 | system T | ype | 5 | Subtype | | 1 | Efficiency | Capac | city A | ir Flow S | SHR | Block | Ducts |
| | _ 1 | C | entral L | Init | 1 | Vone | | 5 | SEER: 14 | 4 12.1 kB | tu/hr 36 | 60 cfm (| 0.75 | 1 | sys#1 |
| | | | | | | Н | OT WAT | ERSY | STEM | | | | | | |
| | # | | System | Туре | SubType | Location | EF | Ca | р | Use | SetPr | nt | Conse | ervation | |
| | | | Electric | | None | RoomsInBloo | ck10.92 | 50 g | jal | 30 gal | 120 de | eg | Ne | one | |
| V | . 1 | | | | | | | | | | | | | | |
| V | . 1 | | | | | SOLA | R HOT V | VATER | SYST | EM | | | | | |
| √ √ | | EC | | oany Na | ame | | R HOT V | | | EM collector Mo | odel # | Collector Area | Storage | | EF |



| | | | | | | | DUCTS | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|--------------------------------|----------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|--------------------|----------------|-------------------------|-------------|-------------------|
| \checkmark | # | | Supply ocation R-Value Area | | Return Location Area | | Leaka | Leakage Type | | CFM 25 | Percent Leakage | QN | RLF | HV. Heat | AC# |
| | 1 | Attic | 6 1 | 04 ft² | Attic | 51.6 ft² | DSE | E=0.88 | Attic | 0.0 cfm | 0.00 % | 0.00 | 0.60 | 1 | 1 |
| | | | | | | TEM | PERATU | RES | | | | | | | |
| Program | able Therr | nostat: N | | | | Ceiling Fans | S: | | | | | | | | |
| Cooling Heating Venting | [X] Jan [X] Jan [X] Jan | [X] Fel [X] Fel [X] Fel | | Mar [X Mar [X Mar [X | Apr Apr Apr | [X] May [X] May [X] May | X Jun X Jun X Jun | [X] Jul [X] Jul [X] Jul | [X] Aug [X] Aug [X] Aug | [X] Sep [X] Sep [X] Sep | [X] 0 | ct ct ct | X Nov X Nov X Nov | XX | Dec Dec Dec |
| Thermosta Schedule | | : HERS 2 | 006 Refe 1 | rence 2 | 3 | 4 | 5 | Ног 6 | irs 7 | 8 | 9 | 10 | 11 | | 12 |
| Cooling (V | VD) | 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 |
| Cooling (V | /EH) | 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 78 |
| Heating (V | VD) | AM PM | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 6 | 68 68 |
| Heating (V | VEH) | AM PM | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 6 | 68 68 |



FORM 405-10

Florida Code Compliance Checklist

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

ADDRESS: 128 SW Erin Glen

PERMIT#:

Lake City, FL, 32024-

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. | |
| 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. | |
| 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. | |
| 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. | , |
| 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. | |
| SwimmingPools & 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. | |
| 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. | |
| Ceilings/kneewalls | 405.2.1 | R-19 space permitting. | |