FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

| • | | | | 5 'll N | Trooladiniai i on | | CHICKEN TO SERVICE STREET |
|---|---|----------------------|---------------------------------|---|---|--|---------------------------|
| Project Name: Street: | Stilwell Residence | е | | Builder Name: Permit Office: | | d | ounty Bui |
| City, State, Zip: | , FL, | | | Permit Number | r: | umbis | Plan Review for Co |
| Owner: | | | | Jurisdiction: | | = 3 | Complia |
| Design Location: | FL, Gainesville | | | County: | Alachua(Florida Clin | nate Zone 2) | tate of F |
| 1. New construction | n or existing | New (F | rom Plans) | 10. Wall Types(| | Insulation Are | |
| 2. Single family or | multiple family | | Detached | a. Frame - Ste | | R=13.0 1152.00 ft R=13.0 360.00 ft | |
| 3. Number of units, | , if multiple family | | 1 | b. Frame - Wo c. N/A | ou, Aujacem | K=13.0 300.00 ii | ` |
| 4. Number of Bedro | ooms | | 3 | d. N/A | | | |
| 5. Is this a worst ca | ase? | | No | | es(1318.0 sqft.) mbly, with (Vented) | Insulation Are R=30.0 1318.00 ft | |
| 6. Conditioned floo Conditioned floo | or area above grad or area below grade | | 1318 0 | b. N/A c. N/A | mbly, with (venteu) | K=30.0 1316.00 II | |
| 7. Windows(182.3 | | | Area | 12. Roof(Metal, | | eck R=30.0 1359 ft | t |
| a. U-Factor: | Dbl, U=0.2 | | 182.33 ft ² | | tion & insulation level | | it ² |
| SHGC: b. U-Factor: | SHGC=0.2 N/A | 20 | ft ² | a. Sup: Main, F | Ret: Main, AH: Garage | e 6 264 | † |
| SHGC: | | | | C. | | | |
| c. U-Factor: | N/A | | ft ² | 14. Cooling Sys | | kBtu/hr Efficienc | , |
| SHGC: Area Weighted Av | verage Overhang [| Denth: | 1.500 ft | a. Central Unit | | 30.0 SEER2:15.0 |) ⁽⁾ |
| Area Weighted Av | | 70p | 0.200 | | | | |
| 8. Skylights | Description | n | Area | 15. Heating Sys | | kBtu/hr Efficienc | - |
| U-Factor:(AVG) | N/A | | N/A ft ² | a. Electric Hea | it Pump | 15.0 HSPF2:8.5 | ,0 |
| SHGC(AVG): | N/A | | | | | | |
| Floor TypesSlab-On-Grade | Edge Insulation | Insulation R= 0.0 | Area 1318.00 ft ² | 16. Hot Water S | - | 2 4 11 | |
| b. N/A | Luge modiation | R= 0.0 R= | ft [∠] | a. ElectricTank | dess | Cap: 1 gallon EF: 0.92 | |
| c. N/A | | R= | ft ² | b. Conservatio | n features | LI . U.U. | .0 |
| | | | ! | | | Non | - |
| | | | | 17. Credits | | CF, Psta | at |
| Glass/Floor Area: 0 | .138 | Total Pr | roposed Modifie | ed Loads: 37.89 |) | | |
| | | | Total Baselin | ne Loads: 44.35 | noual total loads of the standard | PASS reference design in order to comp | ınlv |
| I hereby certify that | | | | Review of the pla | | | piy. |
| this calculation are | | | | specifications cov | | JOF THE STATE | |
| Code. | | | ! | calculation indica | | A CAN | |
| PREPARED BY: _ | 157 | | ! | with the Florida E Before construction | | 3 | B |
| | | | | this building will b | | | 0000 |
| DATE: | 8-6-24 | | | compliance with S | Section 553.908 | A A | |
| I hereby certify that | this huilding as d | lesianed is ir | o compliance | Florida Statutes. | H. | | 7 |
| with the Florida Ene | | Colgrida, id iii | Toompilation | | | COD WE TRU | |
| OWNER/AGENT: | | | | BUILDING OFFIC | | | |
| DATE: <u>8-7-20</u> | 24 7 | <u></u> | <u> </u> | 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 5.24 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

| | | | F | ROJE | СТ | | | | | | |
|--|------------------------------|-----------------------------|---|------------------------------|---|---|-----------------------------|----------------------------------|-------------------|----------------|-----------------|
| Title: Building Type: Owner: Builder Home II Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct Comment: | Detached New (From Plans) | | Bedrooms: Conditioned Total Storie Worst Case Rotate Ang Cross Vent Whole Hou Terrain: Shielding: | es: e: le: ilation: | 3 1318 1 No 0 Rural Moderate/ | Lot # Block PlatE Stree Cour City, | k/SubDivisi Book: et: | Street Address on: Alachua , FL, | dress | | |
| | | | (| CLIMA | TE | | | | | | |
| Design Location | | Tmy Site | | Design 97.5% | Temp 2.5% | Int Desig Winter | | Heating Degree Days | Desig Moisture | | ily temp nge |
| FL, Gainesvi | lle | FL_GAINESVILLE_ | REGIONA | 32 | 92 | 70 | 75 | 1305.5 | 51 | Medi | um |
| | | | I | BLOC | KS | | | | | | |
| Number | Name | Area | Volur | me | | | | | | | |
| 1 | Block1 | 1318 | 1186 | 2 cu ft | | | | | | | |
| | | | · | SPAC | ES | | | | | | |
| Number | Name | Area | Volume K | (itchen | Occupants | s Bedr | ooms | Finished | Coc | oled F | Heated |
| 1 | Main | 1318 | 11862 | Yes | 6 | 3 | 3 | Yes | Y | es | Yes |
| | | | | FLOOI | RS | (| Total Ex | cposed Ar | ea = 13 | 318 sq | ı.ft.) |
| √# Floor T | ype | Space | Expose Perim(f | | | Value l m. Joist | J-Factor | Slab Insul. Vert/Horiz | Tile | Wood | Carpet |
| 1 Slab-On- | Grade Edge Ins | Main | 168 | 1318 s | qft 0 | | 0.563 | 0 (ft)/0 (ft) | 0.20 | 0.60 | 0.20 |
| | | | | ROO | F | | | | | | |
| √# Type | | Materials | Roc Are | | able Root rea Colo | | Solar Absor. | SA Emit Tested | t Emitt Tested | Deck Insul. | Pitch (deg) |
| 1 Gable or | shed | Metal | 1359 |) ft² 164 | ft² Unf, G | al. N | 0.96 | No 0.7 | No | 30 | 14.04 |
| | | | | ATTI | С | | | | | | |
| √# Type | | Ventilation | | Vent Rati | o (1 in) | Area | RBS | IRC | | | |
| 1 No attic | | Unvented | | 0 | | 1318 ft² | N | N | | | |
| | | | (| CEILIN | NG | (| Total Ex | cposed Ar | ea = 13 | 318 sq | .ft.) |
| √# Ceiling | Туре | | Space | R-Value | e Ins. Ty | pe Are | ea U-F | actor Framir | g Frac. | Trus | s Type |
| 1 Single as | sembly, with airspace | (1 1 - · · - · · 1 - · · 1) | Main | 30.0 | Blow | n 1318 | .0ft² 0.0 | 2.17 | 11 | 101 | ood/ |

INPUT SUMMARY CHECKLIST REPORT

| WALLS (Total Exposed Area = 1512 sq.ft.) | | | | | | | | | | | ft.) | | | | | | | | | |
|--|---|------------------|---|--|--|----------------------------|--|--|---------------------------------------|--------------------------------------|---|-----------------------|---------------------------------|--|--|--|--|--|--------------------------------------|--|
| \checkmark | , # | Ornt | | acent Го | Wall Type | | Space | e | | avity Value | Width Ft Ir | า | Hei Ft | | Area sq.ft. | U- Factor | Sheath R-Valu | | Solar Absor. | Below Grade |
| | _ 1 _ 2 _ 3 _ 4 _ 5 | E S W | | Exterior Exterior Exterior Exterior Garage | Frame - Steel Frame - Steel Frame - Steel Frame - Wood | | n n n | Aain Aain Aain Aain Aain | | 13.0 13.0 13.0 13.0 13.0 | 36.0 48.0 16.0 | 0 0 0 0 0 | 9.0 9.0 9.0 9.0 9.0 | 0 0 0 0 | 252.0 324.0 432.0 144.0 360.0 | 0.205 0.205 0.205 | 5 5 | 0.23 0.23 0.23 0.23 0.23 | 0.75 0.75 0.75 0.75 0.75 | 0 % 0 % 0 % 0 % 0 % |
| | DOORS (Total Exposed Area = 80 sq.ft.) | | | | | | | | | | | | | | | | | | | |
| \checkmark | , # | Ornt | | Adjacent | To Door Type | | Space | e | | Stor | ms | | U-Va | alue | | Vidth Ft In | | eight : In | Are | ea |
| | _ 1 _ 2 _ 3 | | | Exterio Exterio Garage | or Insulated | | Mai Mai Mai | n | | No | one one one | | 0 | .46 .46 .46 | 6.0 3.0 3.0 | 0 0 | 6.00 6.00 6.00 | 8 8 8 | 40.0 20.0 20.0 | Oft² |
| | | | | | | | | V | /IN | DOW | VS | | | (To | tal Ex | posed | d Area | a = 18 | 32 sq. | ft.) |
| | , # | Ornt | Wall ID | Frame | Panes | NFRC | U-Factor | SHGC | Imp | Storm | Total Area (ft²) | | ime V nits | Vidth (ft) | Height (ft) | Overl Depth (ft) | | Interior | Shade | Screen |
| | _ | N E S S | 1 1 2 2 3 3 3 4 4 | Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl Vinyl | Low-E Double | Y Y Y Y Y Y | 0.26 0.26 0.26 0.26 0.26 0.26 0.26 0.26 | 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.20 | N N N N N N N N N N N N N N N N N N N | X | 9.0 20.0 30.0 6.0 40.0 45.0 13.3 15.0 4.0 | | 1 | 3.00 4.00 3.00 2.00 4.00 3.00 1.00 3.00 4.00 | 3.00 5.00 5.00 3.00 5.00 5.00 6.67 5.00 1.00 | 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 | 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 | No No No No No No No | ne ne ne ne ne ne | None None None None None None None |
| Г | | | | | | | | INF | ILT | RAT | TON | | | | | | | | | |
| $\overline{\ }$ | # | Scop | е | Me | ethod | SI | _A | CFM50 | | ELA | EqL | A | AC | СН | ACH5 | 0 Spac | e(s) | Infiltration Test Volume | | |
| | _ 1 | Wh | olehou | use Prop | posed ACH(50) | 0.00 | 0030 | 1036 | 5 | 6.84 | 106.7 | 71 | 0.10 | 076 | 5.2 | А | II | 11862 | cu ft | |
| | | | | | | | | (| GAI | RAG | E | | | | | | | | | |
| \bigvee | # | | ı | Floor Area | a I | Roof Are | a | Exp | osec | l Wall P | Perimete | r | | Avg | . Wall He | eight | Ехро | sed Wa | all Insula | tion |
| | _ 1 | | | 400 ft ² | | 400 ft ² | | | | 40 ft | | | | | 9 ft | | | 1 | | |
| MASS | | | | | | | | | | | | | | | | | | | | |
| \vdash | # | | ss Typ | | | Ar | ea | | Т | hicknes | SS | ı | Furnitu | re Fra | action | ; | Space | | | |
| | _ 1 | De | fault(8 | lbs/sq.ft.) | 1 | 0 | ft² | | | 0 ft | | | | 0.30 | | | Main | | | |
| L | | | | | | | | HEAT | | | | | | | | | | | | |
| | # | Sys | stem T | уре | s | Subtype/S | Speed | AHR | l # | Effic | eiency | | apacity Btu/hr | | Geoth ntry P | nermal H ower | eatPum _l Volt C | | oucts | Block |

INPUT SUMMARY CHECKLIST REPORT

| | | | | HEA | ATIN | G SYS | rem(C | ontinu | ued) | | | | | |
|--------------------------------|-------------------------------|---|------------------------------|-------------------------------|----------------|------------------|---------------|-------------------------------|-----------------------------|-----------------------------|---------------|-------------|---------------------------|-----------------------------|
| 1 | Electric Heat P | ump | N | one/Single | | | HSPF2: 8 | .50 1 | 5.0 | 0.0 | 00 0. | 00 0.00 | 0 sys#1 | 1 |
| | | | | | CC | OOLING | SYS | TEM | | | | | | |
| /# | System Type | | Sub | otype/Spee | d | AHRI # | Efficie | ncy | Capacity kBtu/hr | | r Flow cfm | SHR | Duct | Block |
| 1 | Central Unit | | | None/Sing | le | | SEER2 | :15.0 30 | 0.0 | , | 900 | 0.75 | sys#1 | 1 |
| | | | | | HO | T WATE | RSY | STEM | | | | | | |
| /# | System Type | Subtype | | Location | | EF(UEF) | Сар | Use | SetPnt | Fixture | Flow | Pipe Ins. | Pipe | length |
| 1 | Electric | Tankless | | Exterior | | 0.92 (0.92) | 1.00 gal | 60 gal | 120 deg | Stand | dard | None | | 99 |
| | Recirculation System | | c Control ype | | Loop length | Branch length | Pump power | DWHR | Facilitie Connect | | | DWHR Eff | Othe | Credits |
| 1 | No | | | | NA | NA | NA | No | NA | N | A | NA | Non | е |
| | | | | | | DU | CTS | | | | | | | |
| /Duc | | upplyR-Value A | | Ret | | | _eakage T | ·ype | Air Handler | CFM 25 TOT | CFM 2 OUT | | RLF H | HVAC # eat Cool |
| 1 N | Main | 6.0 264 | ft² Main | | 6.0 | 66 ft² P | rop. Leak | Free | Garage | | | 0.030 | 0.50 | 1 1 |
| | | | | | Т | EMPER | ATUR | RES | | | | | | |
| Prog Cooli Heat Venti | ing [X] Jan | ostat: Y [] Feb [X] Feb [] Feb | [] Mar [X] Mar [X] Mar | [] Apr [] Apr [X] Apr | 1 [] 1 [] | May [] | Jun Jun | [X] Jul [] Jul [] Jul | [X] Aug [] Aug [] Aug | [X] Sep [] Sep [] Sep | []C []C | Oct [X |] Nov [] Nov [] Nov | [] Dec [X] Dec [] Dec |
| , | ermostat Sched hedule Type | ule: HERS 2 | 2006 Refere 1 | ence 2 | 3 | 4 | 5 | Hou 6 | urs 7 | 8 | 9 | 10 | 11 | 12 |
| Cc | poling (WD) | AM PM | 78 80 | 78 80 | 78 80 | 78 80 | 78 78 | 78 78 | 78 78 | 78 78 | 80 78 | 80 78 | 80 78 | 80 78 |
| Cc | ooling (WEH) | AM PM | 78 80 | 78 80 | 78 80 | 78 80 | 78 78 | 78 78 | 78 78 | 78 78 | 80 78 | 80 78 | 80 78 | 80 78 |
| Нє | eating (WD) | AM PM | 65 68 | 65 68 | 65 68 | 65 68 | 65 68 | 65 68 | 65 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 |
| | | | | | | | | | | | | | | |

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 85

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

,,FL,

| New construction or existing | New (F | rom Plans) | 10. Wall Types(1512.0 sqft.) | Insulation Area |
|--|------------------------------------|---|---|--|
| 2. Single family or multiple family | | Detached | a. Frame - Steel, Exterior | R=13.0 1152.00 ft ² |
| 3. Number of units, if multiple fam | ly | 1 | b. Frame - Wood, Adjacentc. N/A | R=13.0 360.00 ft ² |
| 4. Number of Bedrooms | | 3 | d. N/A | |
| 5. Is this a worst case? | | No | 11. Ceiling Types(1318.0 sqft.) | Insulation Area |
| Conditioned floor area above gr Conditioned floor area below gr | , , | 1318 0 | a. Single assembly, with (Vented)b. N/Ac. N/A | R=30.0 1318.00 ft ² |
| 7. Windows** Descrip a. U-Factor: Dbl, U= SHGC: SHGC= b. U-Factor: N/A SHGC: | 0.26 | Area 182.33 ft ² ft ² | 12. Roof(Metal, Unvent)13. Ducts, location & insulation levela. Sup: Main, Ret: Main, AH: Garagb.c. | |
| c. U-Factor: N/A SHGC: Area Weighted Average Overhan | g Depth: | ft ² | 14. Cooling Systems a. Central Unit | kBtu/hr Efficiency 30.0 SEER2:15.00 |
| Area Weighted Average SHGC: 8. Skylights Descrip U-Factor:(AVG) N/A SHGC(AVG): N/A | tion | 0.200 Area N/A ft ² | 15. Heating Systemsa. Electric Heat Pump | kBtu/hr Efficiency 15.0 HSPF2:8.50 |
| 9. Floor Typesa. Slab-On-Grade Edge Insulatiob. N/Ac. N/A | Insulation n R= 0.0 R= R= | Area 1318.00 ft ² ft ² ft ² | 16. Hot Water Systemsa. ElectricTanklessb. Conservation features | Cap: 1 gallons EF: 0.920 None |
| | | | 17. Credits | CF, 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: _____ Date: ______ Date: ______

Address of New Home: City/FL Zip: ,FL,

*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.

