

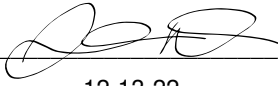

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

| | |
|---|--|
| Project Name: Stevens Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville | Builder Name: Permit Office: Permit Number: Jurisdiction: County: columbia(Florida Climate Zone 2) |
|---|--|

| | |
|--|--|
| 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 2 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 750 Conditioned floor area below grade (ft²) 0 7. Windows(84.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 84.00 ft² SHGC: SHGC=0.20 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 5.786 ft Area Weighted Average SHGC: 0.200 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A 9. Floor Types Insulation Area a. Slab-On-Grade Edge Insulation R= 0.0 750.00 ft² b. N/A R= ft² c. N/A R= ft² | 10. Wall Types(1100.0 sqft.) Insulation Area a. Frame - Steel, Exterior R=13.0 1100.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(750.0 sqft.) Insulation Area a. Single assembly, with (Vented) R=30.0 750.00 ft² b. N/A c. N/A 12. Roof(Metal, Unvent) Deck R=30.0 773 ft² 13. Ducts, location & insulation level R ft² a. Sup: Main, Ret: Main, AH: Main 6 1 b. c. 14. Cooling Systems kBtu/hr Efficiency a. PTAC and Room Unit 36.0 EER:21.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 36.0 HSPF:8.50 16. Hot Water Systems a. Electric Cap: 50 gallons EF: 0.920 b. Conservation features None 17. Credits CF, Pstat |
|--|--|

| | | |
|-------------------------|--------------------------------------|-------------|
| Glass/Floor Area: 0.112 | Total Proposed Modified Loads: 25.27 | PASS |
| | Total Baseline Loads: 31.15 | |

| | |
|---|--|
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY:  DATE: 12-13-22 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.  BUILDING OFFICIAL: _____ 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 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

| PROJECT | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|---------------------------|--|----------------------------------|----------------|---------------------|--------------------|-----------------|--|------------------|--|---------------|--|------------|--|--------|--|--------------|--|-------------|--|-------------|--|
| Title: | Stevens Residence | | | | Address type: | | Street Address | | | | | | | | | | | | | | | | | |
| Building Type: | User | | | | Bedrooms: | 2 | | Lot #: | --- | | | | | | | | | | | | | | | |
| Owner: | | | | | Conditioned Area: | 750 | | Block/SubDivision: | --- | | | | | | | | | | | | | | | |
| | | | | | Total Stories: | 1 | | PlatBook: | --- | | | | | | | | | | | | | | | |
| Builder Name: | | | | | Worst Case: | No | | Street: | | | | | | | | | | | | | | | | |
| Permit Office: | | | | | Rotate Angle: | 0 | | County: | columbia | | | | | | | | | | | | | | | |
| Jurisdiction: | | | | | Cross Ventilation: | | | City, State, Zip: | , FL, | | | | | | | | | | | | | | | |
| Family Type: | Detached | | | | Whole House Fan: | | | | | | | | | | | | | | | | | | | |
| New/Existing: | New (From Plans) | | | | Terrain: | Rural | | | | | | | | | | | | | | | | | | |
| Year Construct: | 2023 | | | | Shielding: | Moderate/Rural | | | | | | | | | | | | | | | | | | |
| Comment: | | | | | | | | | | | | | | | | | | | | | | | | |
| CLIMATE | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ Design Location | Tmy Site | | Design Temp 97.5% 2.5% | | Int Design Temp Winter Summer | | 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 | | 750 | | 6000 cu ft | | | | | | | | | | | | | | | | | | | |
| SPACES | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ Number | Name | | Area | | Volume | | Kitchen | | Occupants | | Bedrooms | | Finished | | Cooled | | Heated | | | | | | | |
| ___ 1 | Main | | 750 | | 6000 | | Yes | | 4 | | 2 | | Yes | | Yes | | Yes | | | | | | | |
| FLOORS (Total Exposed Area = 750 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 | | 110 | | 0 | | 750 ft | | 0.563 | | --- | | 0.20 | | 0.60 | | 0.20 | | | | | |
| 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 | | Metal | | 773 ft² | | 94 ft² | | Light | | N | | 0.6 | | No | | 0.9 | | No | | 30 | | 14.04 | |
| ATTIC | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ # | Type | | Ventilation | | Vent Ratio (1 in) | | Area | | RBS | | IRCC | | | | | | | | | | | | | |
| ___ 1 | No attic | | Unvented | | 0 | | 750 ft² | | N | | N | | | | | | | | | | | | | |
| CEILING (Total Exposed Area = 750 sq.ft.) | | | | | | | | | | | | | | | | | | | | | | | | |
| ✓ # | Ceiling Type | | Space | | R-Value | | Ins. Type | | Area | | U-Factor | | Framing Frac. | | Truss Type | | | | | | | | | |
| ___ 1 | Single assembly, with airspace(Unvented) | | Main | | 30.0 | | Blown | | 750.0ft² | | 0.031 | | 0.11 | | Wood | | | | | | | | | |

INPUT SUMMARY CHECKLIST REPORT

| WALLS | | | | | | | | | | | | | | | | | (Total Exposed Area = 1100 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 | N | Exterior | Frame - Steel | Main | 13.0 | 30.0 | 0 | 10.0 | 0 | 300.0 | 0.215 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 2 | E | Exterior | Frame - Steel | Main | 13.0 | 25.0 | 0 | 10.0 | 0 | 250.0 | 0.215 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 3 | S | Exterior | Frame - Steel | Main | 13.0 | 30.0 | 0 | 10.0 | 0 | 300.0 | 0.215 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 4 | W | Exterior | Frame - Steel | Main | 13.0 | 25.0 | 0 | 10.0 | 0 | 250.0 | 0.215 | | 0.23 | 0.75 | 0 % | | | | | |

| DOORS | | | | | | | | | | | | | (Total Exposed Area = 40 sq.ft.) | | |
|-------|------|-------------|-----------|-------|--------|---------|----------|----|-----------|----|---------|--|----------------------------------|--|--|
| ✓ # | Ornt | Adjacent To | Door Type | Space | Storms | U-Value | Width Ft | In | Height Ft | In | Area | | | | |
| ___ 1 | E | Exterior | Insulated | Main | None | 0.40 | 3.00 | 0 | 6.00 | 8 | 20.0ft² | | | | |
| ___ 2 | S | Exterior | Insulated | Main | None | 0.40 | 3.00 | 0 | 6.00 | 8 | 20.0ft² | | | | |

| WINDOWS | | | | | | | | | | | | | | | | | (Total Exposed Area = 84 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 | N | 1 | Vinyl | Low-E Double | Y | 0.26 | 0.20 | N | N | 15.0 | 1 | 3.00 | 5.00 | 1.5 | 2.3 | None | None | | |
| ___ 2 | E | 2 | Vinyl | Low-E Double | Y | 0.26 | 0.20 | N | N | 9.0 | 1 | 3.00 | 3.00 | 1.5 | 2.3 | None | None | | |
| ___ 3 | S | 3 | Vinyl | Low-E Double | Y | 0.26 | 0.20 | N | N | 30.0 | 2 | 3.00 | 5.00 | 13.5 | 2.3 | None | None | | |
| ___ 4 | W | 4 | Vinyl | Low-E Double | Y | 0.26 | 0.20 | N | N | 30.0 | 2 | 3.00 | 5.00 | 1.5 | 2.3 | None | None | | |

| INFILTRATION | | | | | | | | | | |
|--------------|------------|------------------|---------|-------|-------|-------|--------|-------|----------|--------------------------|
| ✓ # | Scope | Method | SLA | CFM50 | ELA | EqLA | ACH | ACH50 | Space(s) | Infiltration Test Volume |
| ___ 1 | Wholehouse | Proposed ACH(50) | 0.00025 | 500 | 27.43 | 51.50 | 0.0980 | 5.0 | All | 6000 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 HeatPump---- | | | Ducts | Block |
| | | | | | | Entry | Power | Volt | Current | |
| ___ 1 | Electric Heat Pump | None/Single | | HSPF: 8.50 | 36.0 | | 0.00 | 0.00 | 0.00 | sys#1 1 |

| COOLING SYSTEM | | | | | | | | | |
|----------------|--------------------|---------------|--------|------------|------------------|--------------|------|-------|-------|
| ✓ # | System Type | Subtype/Speed | AHRI # | Efficiency | Capacity kBtu/hr | Air Flow cfm | SHR | Duct | Block |
| ___ 1 | PTAC and Room Unit | None/Single | | EER:21 | 36.0 | 1080 | 0.85 | 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) | 50.00 gal | 50 gal | 120 deg | Standard | None | 99 |
| | 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----- | | -----Return----- | | Leakage Type | Air Handler | CFM 25 TOT | CFM 25 OUT | QN | RLF | HVAC # | |
|------------|------------------|--------------|------------------|--------------|-----------------|-------------|------------|------------|------|------|--------|------|
| | Location | R-Value Area | Location | R-Value Area | | | | | | | Heat | Cool |
| ___ 1 Main | | 6.0 1 ft² | Main | 6.0 1 ft² | Prop. Leak Free | Main | --- | --- | 0.03 | 0.50 | 1 | 1 |

TEMPERATURES

| | | | | | | | | | | | | | |
|--|----------|----------|----------|-----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Programable Thermostat: Y | | | | Ceiling Fans: N | | | | | | | | | |
| Cooling | [] Jan | [] Feb | [] Mar | [] Apr | [] May | [X] Jun | [X] Jul | [X] Aug | [X] Sep | [] Oct | [] Nov | [] Dec | |
| Heating | [X] Jan | [X] Feb | [X] Mar | [] Apr | [] May | [] Jun | [] Jul | [] Aug | [] Sep | [] Oct | [X] Nov | [X] Dec | |
| Venting | [] Jan | [] Feb | [X] Mar | [X] Apr | [] May | [] Jun | [] Jul | [] Aug | [] Sep | [X] Oct | [X] Nov | [] Dec | |
| Thermostat Schedule: HERS 2006 Reference | | | | | | | | | | | | | |
| ✓ Schedule Type | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ___ Cooling (WD) | AM PM | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 80 78 | 80 78 | 80 78 | 80 78 |
| ___ Cooling (WEH) | AM PM | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 78 80 | 80 78 | 80 78 | 80 78 | 80 78 |
| ___ Heating (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 |
| ___ Heating (WEH) | 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* = 80

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

,,FL,

| | | | |
|---|---|--|---|
| 1. New construction or existing 2. Single family or multiple family 3. Number of units, if multiple family 4. Number of Bedrooms 5. Is this a worst case? 6. Conditioned floor area above grade (ft²) Conditioned floor area below grade (ft²) 7. Windows** a. U-Factor: SHGC: b. U-Factor: SHGC: c. U-Factor: SHGC: Area Weighted Average Overhang Depth: Area Weighted Average SHGC: | New (From Plans) Detached 1 2 No 750 0 Description Dbl, U=0.26 SHGC=0.20 N/A N/A Area 84.00 ft² ft² ft² 5.786 ft 0.200 Description N/A N/A Area N/A ft² Insulation R= 0.0 R= R= | 10. Wall Types(1100.0 sqft.) a. Frame - Steel, Exterior b. N/A c. N/A d. N/A 11. Ceiling Types(750.0 sqft.) a. Single assembly, with (Vented) b. N/A c. N/A 12. Roof(Metal, Unvent) 13. Ducts, location & insulation level a. Sup: Main, Ret: Main, AH: Main b. c. 14. Cooling Systems a. PTAC and Room Unit 15. Heating Systems a. Electric Heat Pump 16. Hot Water Systems a. Electric b. Conservation features 17. Credits | Insulation R=13.0 Area 1100.00 ft² Insulation R=30.0 Area 750.00 ft² Deck R=30.0 773 ft² R ft² 6 1 kBtu/hr 36.0 Efficiency EER:21.00 kBtu/hr 36.0 Efficiency HSPF:8.50 Cap: 50 gallons EF: 0.920 None 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: _____

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.