

**FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION**

## Florida Department of Business and Professional Regulation - Residential Performance Method

|                                                                                                                                                                                       |                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Project Name: 1756 Model - Lot 10 Heritage Hills<br>Street: 209 SW Poppy Glen<br>City, State, Zip: Lake City, FL, 32025<br>Owner: David Residence<br>Design Location: FL, Gainesville | Builder Name:<br>Permit Office:<br>Permit Number:<br>Jurisdiction:<br>County: Columbia(Florida Climate Zone 2) |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. New construction or existing      New (From Plans)<br>2. Single family or multiple family      Detached<br>3. Number of units, if multiple family      1<br>4. Number of Bedrooms      3<br>5. Is this a worst case?      No<br>6. Conditioned floor area above grade (ft²)      1756<br>Conditioned floor area below grade (ft²)      0<br>7. Windows(163.0 sqft.)      Description      Area<br>a. U-Factor:      Dbl, U=0.33      163.00 ft²<br>SHGC:      SHGC=0.22<br>b. U-Factor:      N/A      ft²<br>SHGC:<br>c. U-Factor:      N/A      ft²<br>SHGC:<br>Area Weighted Average Overhang Depth:      1.500 ft<br>Area Weighted Average SHGC:      0.220<br>8. Skylights      Description      Area<br>U-Factor:(AVG)      N/A      N/A ft²<br>SHGC(AVG):      N/A<br>9. Floor Types      Insulation      Area<br>a. Slab-On-Grade Edge Insulation      R= 0.0      1756.00 ft²<br>b. N/A      R=      ft²<br>c. N/A      R=      ft² | 10. Wall Types(1584.0 sqft.)      Insulation      Area<br>a. Frame - Wood, Exterior      R=13.0      1398.00 ft²<br>b. Frame - Wood, Adjacent      R=13.0      186.00 ft²<br>c. N/A<br>d. N/A<br>11. Ceiling Types(1756.0 sqft.)      Insulation      Area<br>a. Flat ceiling under att (Vented)      R=30.0      1756.00 ft²<br>b. N/A<br>c. N/A<br>12. Roof(Comp. Shingles, Vented) Deck R=0.0      1964 ft²<br>13. Ducts, location & insulation level      R      ft²<br>a. Sup: Attic, Ret: Attic, AH: Main      6      351<br>b.<br>c.<br>14. Cooling Systems      kBtu/hr      Efficiency<br>a. Central Unit      36.0      SEER2:15.00<br><br>15. Heating Systems      kBtu/hr      Efficiency<br>a. Electric Heat Pump      36.0      HSPF2:7.50<br><br>16. Hot Water Systems<br>a. Electric      Cap: 40 gallons<br>EF: 0.920<br>b. Conservation features<br><br>None<br>17. Credits      CF, Pstat |
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|                         |                                      |                                                            |
|-------------------------|--------------------------------------|------------------------------------------------------------|
| Glass/Floor Area: 0.093 | Total Proposed Modified Loads: 39.91 | <div style="font-size: 2em; font-weight: bold;">PASS</div> |
|                         | Total Baseline Loads: 43.84          |                                                            |

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

|                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.<br><br>PREPARED BY: _____<br><br>DATE: 5-22-25<br><br>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.<br>OWNER/AGENT: _____<br>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.<br><br><div style="text-align: center;">  </div> BUILDING OFFICIAL: _____<br>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:           | 1756 Model - Lot 10 Heritage Hills | Bedrooms:          | 3              | Address type:      | Lot                  |
| Building Type:   | User                               | Conditioned Area:  | 1756           | Lot #:             | 10                   |
| Owner:           | David Residence                    | Total Stories:     | 1              | Block/SubDivision: | Heritage Hills       |
| Builder Home ID: |                                    | Worst Case:        | No             | Street:            | 209 SW Poppy Glen    |
| Builder Name:    |                                    | Rotate Angle:      | 0              | County:            | Columbia             |
| Permit Office:   |                                    | Cross Ventilation: |                | City, State, Zip:  | Lake City, FL, 32025 |
| Jurisdiction:    |                                    | Whole House Fan:   |                |                    |                      |
| Family Type:     | Detached                           | Terrain:           | Rural          |                    |                      |
| New/Existing:    | New (From Plans)                   | Shielding:         | Moderate/Rural |                    |                      |
| Year Construct:  | 2025                               |                    |                |                    |                      |
| 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 | 1756 | 15804 cu ft |

## SPACES

|          |      |      |        |         |           |          |          |        |        |
|----------|------|------|--------|---------|-----------|----------|----------|--------|--------|
| ✓ Number | Name | Area | Volume | Kitchen | Occupants | Bedrooms | Finished | Cooled | Heated |
| ___ 1    | Main | 1756 | 15804  | Yes     | 6         | 3        | Yes      | Yes    | Yes    |

## FLOORS

(Total Exposed Area = 1756 sq.ft.)

|       |                        |       |                   |           |                |                |                       |               |      |        |
|-------|------------------------|-------|-------------------|-----------|----------------|----------------|-----------------------|---------------|------|--------|
| ✓ #   | Floor Type             | Space | Exposed Perim(ft) | Area      | R-Value Perim. | U-Factor Joist | SlabInsul. Vert/Horiz | Tile          | Wood | Carpet |
| ___ 1 | Slab-On-Grade Edge Ins | Main  | 176               | 1756 sqft | 0.0            | ---            | 0.600                 | 2 (ft)/0 (ft) | 0.33 | 0.33   |

## ROOF

|       |               |                      |           |            |                 |            |          |              |           |              |              |             |             |
|-------|---------------|----------------------|-----------|------------|-----------------|------------|----------|--------------|-----------|--------------|--------------|-------------|-------------|
| ✓ #   | Type          | Materials            | Roof Area | Gable Area | Framing. Fract. | Roof Color | Rad Barr | Solar Absor. | SA Tested | Emitt Tested | Emitt Tested | Deck Insul. | Pitch (deg) |
| ___ 1 | Gable or shed | Composition shingles | 1964 ft²  | 440 ft²    | 0.10            | Medium     | N        | 0.85         | No        | 0.9          | No           | 0           | 26.6        |

## ATTIC

|       |           |             |                   |          |     |      |
|-------|-----------|-------------|-------------------|----------|-----|------|
| ✓ #   | Type      | Ventilation | Vent Ratio (1 in) | Area     | RBS | IRCC |
| ___ 1 | Fullattic | Vented      | 300               | 1756 ft² | N   | N    |

## CEILING

(Total Exposed Area = 1756 sq.ft.)

|       |                                  |       |         |           |           |          |              |            |
|-------|----------------------------------|-------|---------|-----------|-----------|----------|--------------|------------|
| ✓ #   | Ceiling Type                     | Space | R-Value | Ins. Type | Area      | U-Factor | FramingFrac. | Truss Type |
| ___ 1 | Flat ceiling under attic(Vented) | Main  | 30.0    | Blown     | 1756.0ft² | 0.053    | 0.11         | Wood       |

## INPUT SUMMARY CHECKLIST REPORT

| WALLS |      |             |              |       |                |          |    |           |    |             |          |                |            |              |             |  |  | (Total Exposed Area = 1584 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 - Wood | Main  | 13.0           | 56.0     | 8  | 9.0       | 0  | 510.0       | 0.087    | 0.625          | 0.23       | 0.75         | 0 %         |  |  |                                    |  |  |  |  |  |
| ___ 2 | E    | Exterior    | Frame - Wood | Main  | 13.0           | 31.0     | 4  | 9.0       | 0  | 282.0       | 0.087    | 0.625          | 0.23       | 0.75         | 0 %         |  |  |                                    |  |  |  |  |  |
| ___ 3 | S    | Exterior    | Frame - Wood | Main  | 13.0           | 36.0     | 0  | 9.0       | 0  | 324.0       | 0.087    | 0.625          | 0.23       | 0.75         | 0 %         |  |  |                                    |  |  |  |  |  |
| ___ 4 | W    | Exterior    | Frame - Wood | Main  | 13.0           | 31.0     | 4  | 9.0       | 0  | 282.0       | 0.087    | 0.625          | 0.23       | 0.75         | 0 %         |  |  |                                    |  |  |  |  |  |
| ___ 5 | S    | Garage      | Frame - Wood | Main  | 13.0           | 20.0     | 8  | 9.0       | 0  | 186.0       | 0.094    |                | 0.23       | 0.75         | 0 %         |  |  |                                    |  |  |  |  |  |

  

| DOORS |      |             |           |       |        |         |          |    |           |    |         |  |  | (Total Exposed Area = 78 sq.ft.) |  |  |  |
|-------|------|-------------|-----------|-------|--------|---------|----------|----|-----------|----|---------|--|--|----------------------------------|--|--|--|
| ✓ #   | Ornt | Adjacent To | Door Type | Space | Storms | U-Value | Width Ft | In | Height Ft | In | Area    |  |  |                                  |  |  |  |
| ___ 1 | N    | Exterior    | Insulated | Main  | None   | 0.40    | 6.00     | 0  | 6.00      | 8  | 40.0ft² |  |  |                                  |  |  |  |
| ___ 2 | S    | Exterior    | Insulated | Main  | None   | 0.40    | 3.00     | 0  | 6.00      | 8  | 20.0ft² |  |  |                                  |  |  |  |
| ___ 3 | S    | Garage      | Insulated | Main  | None   | 0.40    | 2.00     | 8  | 6.00      | 8  | 17.8ft² |  |  |                                  |  |  |  |

  

| WINDOWS |      |         |       |              |               |      |     |       |                  |            |            |             |                                      |     |                |        |  | (Total Exposed Area = 163 sq.ft.) |  |  |  |
|---------|------|---------|-------|--------------|---------------|------|-----|-------|------------------|------------|------------|-------------|--------------------------------------|-----|----------------|--------|--|-----------------------------------|--|--|--|
| ✓ #     | Ornt | Wall ID | Frame | Panes        | NFRC U-Factor | SHGC | Imp | Storm | Total Area (ft²) | Same Units | Width (ft) | Height (ft) | --Overhang--<br>Depth (ft) Sep. (ft) |     | Interior Shade | Screen |  |                                   |  |  |  |
| ___ 1   | N    | 1       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 45.0             | 3          | 3.00       | 5.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 2   | N    | 1       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 20.0             | 1          | 4.00       | 5.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 3   | N    | 1       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 9.0              | 1          | 3.00       | 3.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 4   | E    | 2       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 16.0             | 1          | 4.00       | 4.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 5   | S    | 3       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 54.0             | 3          | 3.00       | 6.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 6   | S    | 3       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 15.0             | 1          | 3.00       | 5.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |
| ___ 7   | W    | 4       | Vinyl | Low-E Double | Y 0.33        | 0.22 | N   | N     | 4.0              | 1          | 4.00       | 1.00        | 1.5                                  | 1.3 | None           | None   |  |                                   |  |  |  |

  

| INFILTRATION |            |                  |         |       |       |        |        |       |          |                          |
|--------------|------------|------------------|---------|-------|-------|--------|--------|-------|----------|--------------------------|
| ✓ #          | Scope      | Method           | SLA     | CFM50 | ELA   | EqLA   | ACH    | ACH50 | Space(s) | Infiltration Test Volume |
| ___ 1        | Wholehouse | Proposed ACH(50) | 0.00029 | 1317  | 72.25 | 135.65 | 0.1027 | 5.0   | All      | 15804 cu ft              |

  

| GARAGE |            |          |          |           |                   |                    |                  |                         |
|--------|------------|----------|----------|-----------|-------------------|--------------------|------------------|-------------------------|
| ✓ #    | Floor Area | Length   | Width    | Roof Area | Exposed Perimeter | Area Under Uncond. | Avg. Wall Height | Exposed Wall Insulation |
| ___ 1  | 420 ft²    | 20.3 ft² | 20.7 ft² | 420 ft²   | 60 ft             | 420 ft             | 9 ft             | 1                       |

  

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

  

| HEATING SYSTEM |                    |               |        |             |                  |                          |       |       |         |         |
|----------------|--------------------|---------------|--------|-------------|------------------|--------------------------|-------|-------|---------|---------|
| ✓ #            | System Type        | Subtype/Speed | AHRI # | Efficiency  | Capacity kBtu/hr | ---GeothermalHeatPump--- |       | Ducts | Block   |         |
|                |                    |               |        |             |                  | Entry                    | Power | Volt  | Current |         |
| ___ 1          | Electric Heat Pump | None/Single   |        | HSPF2: 7.50 | 36.0             |                          | 0.00  | 0.00  | 0.00    | sys#1 1 |

INPUT SUMMARY CHECKLIST REPORT

| COOLING SYSTEM                                 |                                          |                         |                        |                |                  |                   |                     |                         |                 |                   |               |               |                     |
|------------------------------------------------|------------------------------------------|-------------------------|------------------------|----------------|------------------|-------------------|---------------------|-------------------------|-----------------|-------------------|---------------|---------------|---------------------|
| ✓                                              | #                                        | System Type             | Subtype/Speed          |                | AHRI #           | Efficiency        | Capacity<br>kBtu/hr | Air Flow<br>cfm         | SHR             | Duct              | Block         |               |                     |
|                                                | 1                                        | Central Unit            | None/Single            |                |                  | SEER2:15.0        | 36.0                | 1080                    | 0.85            | sys#1             | 1             |               |                     |
| HOT WATER SYSTEM                               |                                          |                         |                        |                |                  |                   |                     |                         |                 |                   |               |               |                     |
| ✓                                              | #                                        | System Type             | Subtype                | Location       | EF(UEF)          | Cap               | Use                 | SetPnt                  | Fixt. Flow      | Trap              | Pipe Ins.     | Pipelength    |                     |
|                                                | 1                                        | Electric                | None                   | Main           | 0.92 (0.92)      | 40.0 gal          | 60 gal              | 120 deg                 | Standard        | Yes               | None          | 95            |                     |
|                                                |                                          | Recirculation<br>System | Recirc Control<br>Type | Loop<br>length | Branch<br>length | Pump<br>power     | DWHR                | Facilities<br>Connected | Equal<br>Flow   | DWHR<br>Eff       | Other Credits |               |                     |
|                                                | 1                                        | No                      |                        | NA             | NA               | NA                | No                  | NA                      | NA              | NA                | None          |               |                     |
| DUCTS                                          |                                          |                         |                        |                |                  |                   |                     |                         |                 |                   |               |               |                     |
| ✓                                              | Duct<br>#                                | Location                | Supply<br>R-Value      | Area           | Location         | Return<br>R-Value | Area                | Leakage Type            | AHU<br>Location | CFM 25<br>TOT OUT | QN<br>OUT     | AHU<br>SEALED | HVAC #<br>Heat Cool |
|                                                | 1                                        | Attic                   | 6.0                    | 351 ft²        | Attic            | 6.0               | 88 ft²              | Prop. Leak Free         | Main            | --- ---           | 0.030         | Yes           | 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<br>PM                | 78<br>80               | 78<br>80       | 78<br>80         | 78<br>80          | 78<br>78            | 78<br>78                | 78<br>78        | 80<br>78          | 80<br>78      | 80<br>78      | 80<br>78            |
|                                                | Cooling (WEH)                            | AM<br>PM                | 78<br>80               | 78<br>80       | 78<br>80         | 78<br>80          | 78<br>78            | 78<br>78                | 78<br>78        | 80<br>78          | 80<br>78      | 80<br>78      | 80<br>78            |
|                                                | Heating (WD)                             | AM<br>PM                | 65<br>68               | 65<br>68       | 65<br>68         | 65<br>68          | 65<br>68            | 65<br>68                | 68<br>68        | 68<br>68          | 68<br>68      | 68<br>68      | 68<br>68            |
|                                                | Heating (WEH)                            | AM<br>PM                | 65<br>68               | 65<br>68       | 65<br>68         | 65<br>68          | 65<br>68            | 65<br>68                | 68<br>68        | 68<br>68          | 68<br>68      | 68<br>68      | 68<br>68            |