

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

| | |
|---|--|
| Project Name: Lot 32 Woodborough North Street: City, State, Zip: Lake City, FL, 32055 Owner: Design Location: FL, Gainesville | Builder Name: Lipscomb & Eagle Permit Office: Columbia County Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2) |
|---|--|

| 1. New construction or existing: New (From Plans) 2. Single family or multiple family: Single-family 3. Number of units, if multiple family: 1 4. Number of Bedrooms: 3 5. Is this a worst case?: No 6. Conditioned floor area above grade (ft²): 1673 Conditioned floor area below grade (ft²): 0 7. Windows (262.7 sqft.) <table style="width:100%;"> <tr> <th>Description</th> <th>Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.35</td> <td>262.67 ft²</td> </tr> <tr> <td>SHGC: SHGC=0.29</td> <td></td> </tr> <tr> <td>b. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>c. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>d. U-Factor: N/A</td> <td>ft²</td> </tr> <tr> <td>SHGC:</td> <td></td> </tr> <tr> <td>Area Weighted Average Overhang Depth:</td> <td>3.975 ft.</td> </tr> <tr> <td>Area Weighted Average SHGC:</td> <td>0.290</td> </tr> </table> 8. Floor Types (1673.0 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation</td> <td>R=0.0 1673.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table> | Description | Area | a. U-Factor: Dbl, U=0.35 | 262.67 ft² | SHGC: SHGC=0.29 | | b. U-Factor: N/A | ft² | SHGC: | | c. U-Factor: N/A | ft² | SHGC: | | d. U-Factor: N/A | ft² | SHGC: | | Area Weighted Average Overhang Depth: | 3.975 ft. | Area Weighted Average SHGC: | 0.290 | Insulation | Area | a. Slab-On-Grade Edge Insulation | R=0.0 1673.00 ft² | b. N/A | R= ft² | c. N/A | R= ft² | 9. Wall Types (1656.0 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Frame - Wood, Exterior</td> <td>R=13.0 1467.00 ft²</td> </tr> <tr> <td>b. Frame - Wood, Adjacent</td> <td>R=13.0 189.00 ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> <tr> <td>d. N/A</td> <td>R= ft²</td> </tr> </table> 10. Ceiling Types (1756.0 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Under Attic (Vented)</td> <td>R=38.0 1756.00 ft²</td> </tr> <tr> <td>b. N/A</td> <td>R= ft²</td> </tr> <tr> <td>c. N/A</td> <td>R= ft²</td> </tr> </table> 11. Ducts <table style="width:100%;"> <tr> <th>R</th> <th>ft²</th> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Garage</td> <td>6 418.25</td> </tr> </table> 12. Cooling systems <table style="width:100%;"> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> <tr> <td>a. Central Unit</td> <td>22.1 SEER:15.00</td> </tr> </table> 13. Heating systems <table style="width:100%;"> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> <tr> <td>a. Electric Heat Pump</td> <td>27.0 HSPF:8.20</td> </tr> </table> 14. Hot water systems <table style="width:100%;"> <tr> <td>a. Electric</td> <td>Cap: 50 gallons</td> </tr> <tr> <td>b. Conservation features</td> <td>EF: 0.920</td> </tr> <tr> <td>None</td> <td></td> </tr> </table> 15. Credits: CV, Pstat | Insulation | Area | a. Frame - Wood, Exterior | R=13.0 1467.00 ft² | b. Frame - Wood, Adjacent | R=13.0 189.00 ft² | c. N/A | R= ft² | d. N/A | R= ft² | Insulation | Area | a. Under Attic (Vented) | R=38.0 1756.00 ft² | b. N/A | R= ft² | c. N/A | R= ft² | R | ft² | a. Sup: Attic, Ret: Attic, AH: Garage | 6 418.25 | kBtu/hr | Efficiency | a. Central Unit | 22.1 SEER:15.00 | kBtu/hr | Efficiency | a. Electric Heat Pump | 27.0 HSPF:8.20 | a. Electric | Cap: 50 gallons | b. Conservation features | EF: 0.920 | None | |
|--|--------------------|------|--------------------------|------------|-----------------|--|------------------|-----|-------|--|------------------|-----|-------|--|------------------|-----|-------|--|---------------------------------------|-----------|-----------------------------|-------|------------|------|----------------------------------|-------------------|--------|--------|--------|--------|---|------------|------|---------------------------|--------------------|---------------------------|-------------------|--------|--------|--------|--------|------------|------|-------------------------|--------------------|--------|--------|--------|--------|---|-----|---------------------------------------|----------|---------|------------|-----------------|-----------------|---------|------------|-----------------------|----------------|-------------|-----------------|--------------------------|-----------|------|--|
| Description | Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. U-Factor: Dbl, U=0.35 | 262.67 ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHGC: SHGC=0.29 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. U-Factor: N/A | ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHGC: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. U-Factor: N/A | ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHGC: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. U-Factor: N/A | ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SHGC: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area Weighted Average Overhang Depth: | 3.975 ft. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Area Weighted Average SHGC: | 0.290 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation | Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Slab-On-Grade Edge Insulation | R=0.0 1673.00 ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation | Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Frame - Wood, Exterior | R=13.0 1467.00 ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Frame - Wood, Adjacent | R=13.0 189.00 ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| d. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Insulation | Area | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Under Attic (Vented) | R=38.0 1756.00 ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c. N/A | R= ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R | ft² | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Sup: Attic, Ret: Attic, AH: Garage | 6 418.25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| kBtu/hr | Efficiency | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Central Unit | 22.1 SEER:15.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| kBtu/hr | Efficiency | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Electric Heat Pump | 27.0 HSPF:8.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a. Electric | Cap: 50 gallons | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| b. Conservation features | EF: 0.920 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | |
|-------------------------|--------------------------------------|-------------|
| Glass/Floor Area: 0.157 | Total Proposed Modified Loads: 48.70 | PASS |
| | Total Baseline Loads: 48.64 | |

| | |
|--|---|
| I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: <u>[Signature]</u> DATE: <u>8/10/2020</u> 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 requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

| | | | | | |
|----------------|--------------------------|--------------------|------|--------------------|---------------------------|
| Title: | Lot 32 Woodborough North | Bedrooms: | 3 | Address Type: | Lot Information |
| Building Type: | User | Conditioned Area: | 1673 | Lot # | 32 |
| Owner Name: | | Total Stories: | 1 | Block/Subdivision: | Woodborough N |
| # of Units: | 1 | Worst Case: | No | PlatBook: | |
| Builder Name: | Lipscomb & Eagle | Rotate Angle: | 0 | Street: | |
| Permit Office: | Columbia County | Cross Ventilation: | Yes | County: | Columbia |
| Jurisdiction: | | Whole House Fan: | No | City, State, Zip: | Lake City , FL , 32055 |
| Family Type: | Single-family | | | | |
| New/Existing: | New (From Plans) | | | | |
| Comment: | | | | | |

CLIMATE

| ✓ | Design Location | TMY Site | Design Temp | | Int Design Temp | | Heating | Design | Daily Temp |
|-------|-----------------|---------------------|-------------|-------|-----------------|--------|-------------|----------|------------|
| | | | 97.5 % | 2.5 % | Winter | Summer | Degree Days | Moisture | Range |
| _____ | FL, Gainesville | FL_GAINESVILLE_REGI | 32 | 92 | 70 | 75 | 1305.5 | 51 | Medium |

BLOCKS

| Number | Name | Area | Volume |
|--------|--------|------|--------|
| 1 | Block1 | 1673 | 15057 |

SPACES

| Number | Name | Area | Volume | Kitchen | Occupants | Bedrooms | Infil ID | Finished | Cooled | Heated |
|--------|------|------|--------|---------|-----------|----------|----------|----------|--------|--------|
| 1 | Main | 1673 | 15057 | Yes | 6 | 3 | 1 | Yes | Yes | Yes |

FLOORS

| ✓ | # | Floor Type | Space | Perimeter | R-Value | Area | | Tile | Wood | Carpet |
|-------|---|-------------------------------|-------|-----------|---------|----------|------|------|------|--------|
| _____ | 1 | Slab-On-Grade Edge Insulation | Main | 184 ft | 0 | 1673 ft² | ---- | 0 | 0 | 1 |

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 | Composition shingles | 2011 ft² | 558 ft² | Medium | Y | 0.96 | No | 0.9 | No | 0 | 33.7 |

ATTIC

| ✓ | # | Type | Ventilation | Vent Ratio (1 in) | Area | RBS | IRCC |
|-------|---|------------|-------------|-------------------|----------|-----|------|
| _____ | 1 | Full attic | Vented | 300 | 1673 ft² | Y | N |

CEILING

| ✓ | # | Ceiling Type | Space | R-Value | Ins Type | Area | Framing Frac | Truss Type |
|-------|---|----------------------|-------|---------|-------------|----------|--------------|------------|
| _____ | 1 | Under Attic (Vented) | Main | 38 | Double Batt | 1756 ft² | 0.11 | Wood |

INPUT SUMMARY CHECKLIST REPORT

WALLS

| ✓ # | Ornt | Adjacent To | Wall Type | Space | Cavity R-Value | Width Ft | In | Height Ft | In | Area | Sheathing R-Value | Framing Fraction | Solar Absor. | Below Grade% |
|-------|------|-------------|--------------|-------|----------------|----------|----|-----------|----|-----------|-------------------|------------------|--------------|--------------|
| ___ 1 | S | Exterior | Frame - Wood | Main | 13 | 13 | 8 | 9 | | 123.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 2 | W | Exterior | Frame - Wood | Main | 13 | 8 | | 9 | | 72.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 3 | W | Exterior | Frame - Wood | Main | 13 | 7 | | 9 | | 63.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 4 | S | Garage | Frame - Wood | Main | 13 | 21 | | 9 | | 189.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 5 | E | Exterior | Frame - Wood | Main | 13 | 57 | 4 | 9 | | 516.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 6 | N | Exterior | Frame - Wood | Main | 13 | 24 | | 9 | | 216.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 7 | W | Exterior | Frame - Wood | Main | 13 | 16 | | 9 | | 144.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 8 | N | Exterior | Frame - Wood | Main | 13 | 10 | 8 | 9 | | 96.0 ft² | | 0.23 | 0.75 | 0 |
| ___ 9 | W | Exterior | Frame - Wood | Main | 13 | 26 | 4 | 9 | | 237.0 ft² | | 0.23 | 0.75 | 0 |

DOORS

| ✓ # | Ornt | Door Type | Space | Storms | U-Value | Width Ft | In | Height Ft | In | Area |
|-------|------|-----------|-------|--------|---------|----------|----|-----------|----|--------|
| ___ 1 | S | Insulated | Main | None | .46 | 3 | | 6 | 8 | 20 ft² |
| ___ 2 | S | Insulated | Main | None | .46 | 3 | | 6 | 8 | 20 ft² |

WINDOWS

Orientation shown is the entered, Proposed orientation.

| ✓ # | Ornt | Wall ID | Frame | Panes | NFRC | U-Factor | SHGC | Imp | Area | Overhang Depth | Separation | Int Shade | Screening |
|--------|------|---------|-------|--------------|------|----------|------|-----|----------|----------------|------------|-----------|-----------|
| ___ 1 | S | 1 | TIM | Low-E Double | Yes | 0.35 | 0.29 | N | 6.7 ft² | 7 ft 6 in | 1 ft 0 in | None | None |
| ___ 2 | S | 1 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 30.0 ft² | 7 ft 6 in | 1 ft 0 in | None | None |
| ___ 3 | W | 2 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 15.0 ft² | 7 ft 6 in | 1 ft 0 in | None | None |
| ___ 4 | E | 5 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 60.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |
| ___ 5 | E | 5 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 6.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |
| ___ 6 | N | 6 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 20.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |
| ___ 7 | W | 7 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 15.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |
| ___ 8 | N | 8 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 40.0 ft² | 10 ft 0 in | 1 ft 0 in | None | None |
| ___ 9 | W | 9 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 60.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |
| ___ 10 | W | 9 | Vinyl | Low-E Double | Yes | 0.35 | 0.29 | N | 10.0 ft² | 1 ft 6 in | 1 ft 0 in | None | None |

GARAGE

| ✓ # | Floor Area | Ceiling Area | Exposed Wall Perimeter | Avg. Wall Height | Exposed Wall Insulation |
|-------|------------|--------------|------------------------|------------------|-------------------------|
| ___ 1 | 504 ft² | 504 ft² | 69 ft | 9 ft | 1 |

INFILTRATION

| # | Scope | Method | SLA | CFM 50 | ELA | EqLA | ACH | ACH 50 |
|---|------------|------------------|---------|--------|-------|--------|-------|--------|
| 1 | Wholehouse | Proposed ACH(50) | .000286 | 1254.8 | 68.88 | 129.55 | .1128 | 5 |

INPUT SUMMARY CHECKLIST REPORT

| HEATING SYSTEM | | | | | | | | | | | | | | |
|--|---|---|---|---|------------------------------|---|---|---|---|---|---|---|---------------------|----|
| ✓ | # | System Type | Subtype | Speed | Efficiency | Capacity | Block | Ducts | | | | | | |
| _____ | 1 | Electric Heat Pump/ | None | Single | HSPF:8.2 | 26.97 kBtu/hr | 1 | sys#1 | | | | | | |
| COOLING SYSTEM | | | | | | | | | | | | | | |
| ✓ | # | System Type | Subtype | Subtype | Efficiency | Capacity | Air Flow | SHR | Block | Ducts | | | | |
| _____ | 1 | Central Unit/ | None | Single | SEER: 15 | 22.12 kBtu/hr | 660 cfm | 0.7 | 1 | sys#1 | | | | |
| HOT WATER SYSTEM | | | | | | | | | | | | | | |
| ✓ | # | System Type | SubType | Location | EF | Cap | Use | SetPnt | Conservation | | | | | |
| _____ | 1 | Electric | None | Main | 0.92 | 50 gal | 40 gal | 120 deg | None | | | | | |
| SOLAR HOT WATER SYSTEM | | | | | | | | | | | | | | |
| ✓ | FSEC Cert # | Company Name | System Model# | | | Collector Model# | | Collector Area | Storage Volume | FEF | | | | |
| _____ | None | None | | | | | | ft² | | | | | | |
| DUCTS | | | | | | | | | | | | | | |
| ✓ | # | ---- Supply ---- | | ---- Return ---- | | | | Air Handler | CFM 25 TOT | CFM25 OUT | QN | RLF | HVAC # Heat Cool | |
| _____ | 1 | Attic | 6 | 418.25 f | Attic | 83.65 ft² | Default Leakage | Garage | (Default) c | (Default) c | | | 1 | 1 |
| TEMPERATURES | | | | | | | | | | | | | | |
| Programable Thermostat: Y | | | | | Ceiling Fans: | | | | | | | | | |
| Cooling | <input type="checkbox"/> Jan | <input type="checkbox"/> Feb | <input type="checkbox"/> Mar | <input type="checkbox"/> Apr | <input type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input type="checkbox"/> Oct | <input type="checkbox"/> Nov | <input type="checkbox"/> Dec | | |
| Heating | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input type="checkbox"/> Apr | <input type="checkbox"/> May | <input type="checkbox"/> Jun | <input type="checkbox"/> Jul | <input type="checkbox"/> Aug | <input type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | | |
| Venting | <input type="checkbox"/> Jan | <input type="checkbox"/> Feb | <input type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input type="checkbox"/> May | <input type="checkbox"/> Jun | <input type="checkbox"/> Jul | <input type="checkbox"/> Aug | <input type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | | |
| Thermostat Schedule: HERS 2006 Reference | | | | | | | | | | | | | | |
| Schedule Type | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| Cooling (WD) | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 80 | 80 | 80 | 80 |
| | PM | 80 | 80 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| Cooling (WEH) | AM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| | PM | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| Heating (WD) | AM | 66 | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 |
| Heating (WEH) | AM | 66 | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 |
| MASS | | | | | | | | | | | | | | |
| Mass Type | | | Area | | Thickness | | Furniture Fraction | | | Space | | | | |
| Default(8 lbs/sq.ft.) | | | 0 ft² | | 0 ft | | 0.3 | | | Main | | | | |

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD**ESTIMATED ENERGY PERFORMANCE INDEX* = 100****The lower the Energy Performance Index, the more efficient the home.**

| | | |
|---------------------------------------|----------------------------|---|
| 1. New home or, addition | 1. <u>New (From Plans)</u> | 12. Ducts, location & insulation level |
| 2. Single-family or multiple-family | 2. <u>Single-family</u> | a) Supply ducts R <u>6.0</u> |
| 3. No. of units (if multiple-family) | 3. <u>1</u> | b) Return ducts R <u>6.0</u> |
| 4. Number of bedrooms | 4. <u>3</u> | c) AHU location <u>Garage</u> |
| 5. Is this a worst case? (yes/no) | 5. <u>No</u> | 13. Cooling system: Capacity <u>22.1</u> |
| 6. Conditioned floor area (sq. ft.) | 6. <u>1673</u> | a) Split system SEER <u> </u> |
| 7. Windows, type and area | | b) Single package SEER <u> </u> |
| a) U-factor:(weighted average) | 7a. <u>0.350</u> | c) Ground/water source SEER/COP <u> </u> |
| b) Solar Heat Gain Coefficient (SHGC) | 7b. <u>0.290</u> | d) Room unit/PTAC EER <u> </u> |
| c) Area | 7c. <u>262.7</u> | e) Other <u>15.0</u> |
| 8. Skylights | | 14. Heating system: Capacity <u>27.0</u> |
| a) U-factor:(weighted average) | 8a. <u>NA</u> | a) Split system heat pump HSPF <u> </u> |
| b) Solar Heat Gain Coefficient (SHGC) | 8b. <u>NA</u> | b) Single package heat pump HSPF <u> </u> |
| 9. Floor type, insulation level: | | c) Electric resistance COP <u> </u> |
| a) Slab-on-grade (R-value) | 9a. <u>0.0</u> | d) Gas furnace, natural gas AFUE <u> </u> |
| b) Wood, raised (R-value) | 9b. <u> </u> | e) Gas furnace, LPG AFUE <u> </u> |
| c) Concrete, raised (R-value) | 9c. <u> </u> | f) Other <u>8.20</u> |
| 10. Wall type and insulation: | | 15. Water heating system |
| A. Exterior: | | a) Electric resistance EF <u>0.92</u> |
| 1. Wood frame (Insulation R-value) | 10A1. <u>13.0</u> | b) Gas fired, natural gas EF <u> </u> |
| 2. Masonry (Insulation R-value) | 10A2. <u> </u> | c) Gas fired, LPG EF <u> </u> |
| B. Adjacent: | | d) Solar system with tank EF <u> </u> |
| 1. Wood frame (Insulation R-value) | 10B1. <u>13.0</u> | e) Dedicated heat pump with tank EF <u> </u> |
| 2. Masonry (Insulation R-value) | 10B2. <u> </u> | f) Heat recovery unit HeatRec% <u> </u> |
| 11. Ceiling type and insulation level | | g) Other <u> </u> |
| a) Under attic | 11a. <u>38.0</u> | 16. HVAC credits claimed (Performance Method) |
| b) Single assembly | 11b. <u> </u> | a) Ceiling fans <u> </u> |
| c) Knee walls/skylight walls | 11c. <u> </u> | b) Cross ventilation <u>Yes</u> |
| d) Radiant barrier installed | 11d. <u>Yes</u> | c) Whole house fan <u>No</u> |
| | | d) Multizone cooling credit <u> </u> |
| | | e) Multizone heating credit <u> </u> |
| | | f) Programmable thermostat <u>Yes</u> |

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: Lake City, FL 32055

Envelope Leakage Test Report (Blower Door Test)

Residential Prescriptive, Performance or ERI Method Compliance

2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction:

Permit #:

Job Information

Builder: Lipscomb & Eagle

Community:

Lot: 32

Address:

City: Lake City

State: FL

Zip: 32055

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

☐ **PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{15057}{\text{ACH}(50)} = \text{ACH}(50)$$

☐ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

☐ Retrieved from architectural plans

☒ Code software calculated

☐ Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7) *Florida Statutes* or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the *code official*. Testing shall be performed at any time after creation of all penetrations of the *building thermal envelope*.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____