

PROJECT

| | | | | | |
|---------------|-------------------------|-------------------|------|-------------------|----------------|
| Title | Smith Residence | Bedrooms | 3 | Address Type | Street Address |
| Building Type | FLProp2010 | Conditioned Area | 2470 | Lot # | |
| Owner | Mr & Mrs Smith | Total Stories | 1 | Block/SubDivision | |
| # of Units | 1 | Worst Case | No | PlatBook | |
| Builder Name | S & S Construction, LLC | Rotate Angle | 0 | Street | |
| Permit Office | Columbia County | Cross Ventilation | No | County | Columbia |
| Jurisdiction | | Whole House Fan | No | City, State, Zip | LC , |
| Family Type | Single-family | | | | FL , 32055- |
| New/Existing | New (From Plans) | | | | |
| Comment | | | | | |

CLIMATE

| | | | | | | | | | | |
|-------|-----------------|---------------------|-----------|--------------------|-------|------------------------|--------|---------------------|-----------------|------------------|
| ✓ | Design Location | TMY Site | IECC Zone | Design Temp 97.5 % | 2.5 % | Int Design Temp Winter | Summer | Heating Degree Days | Design Moisture | Daily Temp Range |
| _____ | FL, Gainesville | FL_GAINESVILLE_REGI | 2 | 32 | 92 | 70 | 75 | 1305.5 | 51 | Medium |

BLOCKS

| Number | Name | Area | Volume |
|--------|--------|------|--------|
| 1 | Block1 | 2470 | 24700 |

SPACES

| Number | Name | Area | Volume | Kitchen | Occupants | Bedrooms | Infil ID | Finished | Cooled | Heated |
|--------|---------------|------|--------|---------|-----------|----------|----------|----------|--------|--------|
| 1 | RoomsInBlock1 | 2470 | 24700 | Yes | 3 | 3 | 1 | Yes | Yes | Yes |

FLOORS

| | | | | | | | | | | |
|-------|---|------------------------------|---------------|-----------|---------|----------|-------|------|------|--------|
| ✓ | # | Floor Type | Space | Perimeter | R-Value | Area | | Tile | Wood | Carpet |
| _____ | 1 | Slab-On-Grade Edge Insulatio | RoomsInBlock1 | 274 ft | 5 | 2470 ft² | _____ | 0 | 0 | 1 |

ROOF

| | | | | | | | | | | | | |
|-------|---|---------------|----------------------|-----------|------------|------------|-------------|-----------|-------|--------------|------------|-------------|
| ✓ | # | Type | Materials | Roof Area | Gable Area | Roof Color | Solar Absor | SA Tested | Emitt | Emitt Tested | Deck Insul | Pitch (deg) |
| _____ | 1 | Gable or shed | Composition shingles | 3215 ft² | 1028 ft² | Medium | 0.96 | No | 0.9 | No | 0 | 39.8 |

ATTIC

| | | | | | | | |
|-------|---|------------|-------------|-------------------|----------|-----|------|
| ✓ | # | Type | Ventilation | Vent Ratio (1 in) | Area | RBS | IRCC |
| _____ | 1 | Full attic | Vented | 303 | 2470 ft² | N | N |

CEILING

| | | | | | | | |
|-------|---|----------------------|---------------|---------|----------|--------------|------------|
| ✓ | # | Ceiling Type | Space | R-Value | Area | Framing Frac | Truss Type |
| _____ | 1 | Under Attic (Vented) | RoomsInBlock1 | 30 | 2717 ft² | 0.11 | Wood |

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 | E | Exterior | Frame - Wood | RoomsInBloc | 13 | 80 | 4 | 10 | | 803 3333 | | 0 23 | 0.75 | 0 |
| ✓ | 2 | N | Exterior | Frame - Wood | RoomsInBloc | 13 | 47 | 8 | 10 | | 476.6666 | | 0.23 | 0.75 | 0 |
| ✓ | 3 | W | Exterior | Frame - Wood | RoomsInBloc | 13 | 80 | 4 | 10 | | 803 3333 | | 0 23 | 0.75 | 0 |
| ✓ | 4 | S | Exterior | Frame - Wood | RoomsInBloc | 13 | 48 | | 10 | | 480 ft² | | 0.23 | 0.75 | 0 |

DOORS

| ✓ | # | Ornt | Door Type | Space | Storms | U-Value | Width Ft | In | Height Ft | In | Area |
|---|---|------|-----------|-------------|--------|----------|----------|----|-----------|----|--------|
| ✓ | 1 | E | Insulated | RoomsInBloc | None | 0.460000 | 3 | | 6 | 8 | 20 ft² |
| ✓ | 2 | S | Insulated | RoomsInBloc | None | 0.460000 | 3 | | 6 | 8 | 20 ft² |

WINDOWS

Orientation shown is the entered, Proposed orientation

| ✓ | # | Ornt | Wall ID | Frame | Panes | NFRC | U-Factor | SHGC | Storms | Area | Overhang Depth | Separation | Int Shade | Screening |
|---|----|------|---------|-------|----------------|------|----------|------|--------|----------|----------------|------------|-----------|-----------|
| ✓ | 1 | E | 1 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 30 ft² | 1 ft 6 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 2 | E | 1 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 60 ft² | 10 ft 0 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 3 | E | 1 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 13 33333 | 10 ft 0 in | 3 ft 0 in | HERS 2006 | None |
| ✓ | 4 | E | 1 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 6 ft² | 1 ft 6 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 5 | N | 2 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 30 ft² | 1 ft 0 in | 8 ft 0 in | HERS 2006 | None |
| ✓ | 6 | W | 3 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 30 ft² | 1 ft 6 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 7 | W | 3 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 45 ft² | 9 ft 0 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 8 | W | 3 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 80 ft² | 9 ft 0 in | 1 ft 6 in | HERS 2006 | None |
| ✓ | 9 | S | 4 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 4.5 ft² | 1 ft 0 in | 8 ft 0 in | HERS 2006 | None |
| ✓ | 10 | S | 4 | Metal | Double (Clear) | Yes | 0.3 | 0.5 | N | 6 ft² | 1 ft 0 in | 8 ft 0 in | HERS 2006 | None |

INFILTRATION

| # | Scope | Method | SLA | CFM 50 | ELA | EqLA | ACH | ACH 50 |
|---|----------|--------------|----------|--------|--------|--------|--------|--------|
| 1 | BySpaces | Proposed SLA | 0.000360 | 2332.3 | 128.04 | 240.80 | 0.2771 | 5.6657 |

HEATING SYSTEM

| ✓ | # | System Type | Subtype | Efficiency | Capacity | Block | Ducts |
|---|---|--------------------|---------|------------|--------------|-------|-------|
| ✓ | 1 | Electric Heat Pump | None | HSPF 7.7 | 46.5 kBtu/hr | 1 | sys#1 |

COOLING SYSTEM

| ✓ | # | System Type | Subtype | Efficiency | Capacity | Air Flow | SHR | Block | Ducts |
|---|---|--------------|---------|------------|--------------|----------|------|-------|-------|
| ✓ | 1 | Central Unit | None | SEER 16 | 46.5 kBtu/hr | 1395 cfm | 0.75 | 1 | sys#1 |

HOT WATER SYSTEM

| ✓ | # | System Type | SubType | Location | EF | Cap | Use | SetPnt | Conservation |
|---|---|-------------|---------|--------------|------|--------|--------|---------|--------------|
| ✓ | 1 | Electric | None | RoomsInBlock | 0.92 | 80 gal | 60 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 --- Location | R-Value | Area | --- Return --- Location | Area | Leakage Type | Air Handler CFM 25 | Percent Leakage | QN | RLF | HVAC # Heat | Cool |
|---|---|----------------------------|---------|----------|----------------------------|----------|--------------|-----------------------|--------------------|------|------|----------------|------|
| ✓ | 1 | Attic | 6 | 617.5 ft | Attic | 123.5 ft | DSE=0.88 | RoomsInBl 0.0 cfm | 0.00 % | 0.00 | 0.60 | 1 | 1 |

TEMPERATURES

| Programable Thermostat Y | | | | Ceiling Fans | | | | | | | | | | | |
|--------------------------|---|---|---|---|---|---|---|---|---|---|---|---|-------|--|--|
| Cooling | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | | | |
| Heating | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | | | |
| Venting | <input checked="" type="checkbox"/> Jan | <input checked="" type="checkbox"/> Feb | <input checked="" type="checkbox"/> Mar | <input checked="" type="checkbox"/> Apr | <input checked="" type="checkbox"/> May | <input checked="" type="checkbox"/> Jun | <input checked="" type="checkbox"/> Jul | <input checked="" type="checkbox"/> Aug | <input checked="" type="checkbox"/> Sep | <input checked="" type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | | | |
| Thermostat Schedule | HERS 2006 Reference | | | | | | | | | | | | Hours | | |
| 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 | 78 | 78 | 78 | | |
| | PM | 80 | 80 | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 80 | 80 | 80 | | |
| Cooling (WEH) | AM | 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 | | |
| Heating (WD) | AM | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | |
| | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 | | |
| Heating (WEH) | AM | 66 | 66 | 66 | 66 | 66 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | | |
| | PM | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 68 | 66 | 66 | | |

Florida Code Compliance Checklist

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

| | |
|----------------------------|-----------|
| ADDRESS: LC, FL, 32055- | PERMIT #: |
|----------------------------|-----------|

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 | 403.2.2 403.3.3 | 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. | |
| Swimming Pools & 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/knee walls | 405.2.1 | R-19 space permitting. | |

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 80

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

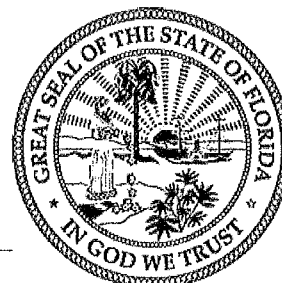
, LC, FL, 32055-

| | | | | | |
|---------------------------------------|------------------|-------------|--|------------|-------------|
| 1 New construction or existing | New (From Plans) | | 9 Wall Types | Insulation | Area |
| 2 Single family or multiple family | Single-family | | a Frame - Wood, Exterior | R=13 0 | 2563 30 ft² |
| 3 Number of units, if multiple family | 1 | | b N/A | R= | ft² |
| 4 Number of Bedrooms | 3 | | c N/A | R= | ft² |
| 5 Is this a worst case? | No | | d N/A | R= | ft² |
| 6 Conditioned floor area (ft²) | 2470 | | 10 Ceiling Types | Insulation | Area |
| 7 Windows** | Description | Area | a Under Attic (Vented) | R=30 0 | 2717 00 ft² |
| a U-Factor | Dbl, U=0 30 | 304 83 ft² | b N/A | R= | ft² |
| SHGC | SHGC=0 50 | | c N/A | R= | ft² |
| b U-Factor | N/A | ft² | 11 Ducts | | R ft² |
| SHGC | | | a Sup Attic, Ret Attic, AH RoomsInBlock1 | 6 | 617 5 |
| c U-Factor | N/A | ft² | 12 Cooling systems | kBtu/hr | Efficiency |
| SHGC | | | a Central Unit | 46 5 | SEER 16 00 |
| d U-Factor | N/A | ft² | 13 Heating systems | kBtu/hr | Efficiency |
| SHGC | | | a Electric Heat Pump | 46 5 | HSPF 7 70 |
| Area Weighted Average Overhang Depth | 6 554 ft | | 14 Hot water systems | Cap | 80 gallons |
| Area Weighted Average SHGC | 0.500 | | a Electric | EF | 0 92 |
| 8 Floor Types | Insulation | Area | b Conservation features | | |
| a Slab-On-Grade Edge Insulation | R=5 0 | 2470 00 ft² | None | | |
| b N/A | R= | ft² | 15 Credits | | Pstat |
| c N/A | R= | ft² | | | |

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: _____



*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 EnergyGauge Rating. Contact the EnergyGauge Hotline at (321) 638-1492 or see the EnergyGauge web site at energygauge.com for information and a list of certified Raters. For information about the Florida Building Code, Energy Conservation, contact the Florida Building Commission's support staff

**Label required by Section 303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.