

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

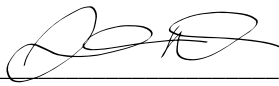

Florida Department of Business and Professional Regulation - Residential Performance Method

| | |
|--|--|
| Project Name: McNutt Residence Street: City, State, Zip: , FL, Owner: Design Location: FL, Gainesville | Builder Name: Permit Office: Permit Number: Jurisdiction: County: Bradford(Florida Climate Zone 2) |
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| | |
|--|--|
| 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 1 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 432 Conditioned floor area below grade (ft²) 0 7. Windows(87.0 sqft.) Description Area a. U-Factor: Dbl, U=0.26 87.00 ft² SHGC: SHGC=0.33 b. U-Factor: N/A ft² SHGC: c. U-Factor: N/A ft² SHGC: Area Weighted Average Overhang Depth: 1.500 ft Area Weighted Average SHGC: 0.330 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= 0.0 432.00 ft² b. N/A R= ft² c. N/A R= ft² | 10. Wall Types(688.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 688.00 ft² b. N/A c. N/A d. N/A 11. Ceiling Types(432.0 sqft.) Insulation Area a. Flat ceiling under att (Vented) R=30.0 432.00 ft² b. N/A c. N/A 12. Roof(Comp. Shingles, Vented) Deck R=0.0 500 ft² 13. Ducts, location & insulation level R ft² a. b. c. 14. Cooling Systems kBtu/hr Efficiency a. Central Unit 12.0 SEER2:21.00 15. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 12.0 HSPF2:8.50 16. Hot Water Systems a. Electric Cap: 40 gallons EF: 0.920 b. Conservation features None CF 17. Credits |
|--|--|

| | | |
|-------------------------|--------------------------------------|-------------|
| Glass/Floor Area: 0.201 | Total Proposed Modified Loads: 14.13 | PASS |
| | Total Baseline Loads: 18.57 | |

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. PREPARED BY:  DATE: 12-18-24 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. <div style="text-align: center;">  </div> 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.
- Homes without ducts do not require duct testing.
- 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 7.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:McNutt Residence

Building Type:User

Owner:

Builder Home ID:

Builder Name:

Permit Office:

Jurisdiction:

Family Type:Detached

New/Existing:New (From Plans)

Year Construct:2024

Comment:

Bedrooms:1

Conditioned Area:432

Total Stories:1

Worst Case:No

Rotate Angle:0

Cross Ventilation:

Whole House Fan:

Terrain:Rural

Shielding:Moderate/Rural

Address type:Street Address

Lot #:---

Block/SubDivision:---

PlatBook:---

Street:

County:Bradford

City, State, Zip: , FL,

CLIMATE

✓Design Location

Tmy Site

Design Temp97.5%2.5%

Int Design TempWinterSummer

Heating Degree Days

Design Moisture

Daily temp Range

___FL, Gainesville

FL_GAINESVILLE_REGIONA

3292

7075

1305.5

51

Medium

BLOCKS

✓Number

Name

Area

Volume

___1

Block1

432

3456 cu ft

SPACES

✓Number

Name

Area

Volume

Kitchen

Occupants

Bedrooms

Finished

Cooled

Heated

___1

Main

432

3456

Yes

2

1

Yes

Yes

Yes

FLOORS

(Total Exposed Area = 432 sq.ft.)

✓#

Floor Type

Space

Exposed Perim(ft)

Area

R-Value Perim.

U-Factor Joist

Slab Insul. Vert/Horiz

Tile

Wood

Carpet

___1

Slab-On-Grade Edge Ins

Main

86

432 sqft

0.0

0.563

0 (ft)/0 (ft)

0.20

0.60

0.20

ROOF

✓#

Type

Materials

Roof Area

Gable Area

Framing. Fract.

Roof Color

Rad Barr

Solar Absor.

SA Tested

Emitt

Emitt Tested

Deck Insul.

Pitch (deg)

___1

Gable or shed

Composition shingles

500 ft²

126 ft²

0.11

Dark

N

0.92

No

0.9

No

0

30.26

ATTIC

✓#

Type

Ventilation

Vent Ratio (1 in)

Area

RBS

IRCC

___1

Full attic

Vented

300

432 ft²

N

N

CEILING

(Total Exposed Area = 432 sq.ft.)

✓#

Ceiling Type

Space

R-Value

Ins. Type

Area

U-Factor

Framing Frac.

Truss Type

___1

Flat ceiling under attic(Vented)

Main

30.0

Blown

432.0ft²

0.030

0.11

Wood

INPUT SUMMARY CHECKLIST REPORT

| WALLS | | | | | | | | | | | | | | | | | (Total Exposed Area = 688 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 | 16.0 | 0 | 8.0 | 0 | 128.0 | 0.084 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 2 | E | Exterior | Frame - Wood | Main | 13.0 | 27.0 | 0 | 8.0 | 0 | 216.0 | 0.084 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 3 | S | Exterior | Frame - Wood | Main | 13.0 | 16.0 | 0 | 8.0 | 0 | 128.0 | 0.084 | | 0.23 | 0.75 | 0 % | | | | | |
| ___ 4 | W | Exterior | Frame - Wood | Main | 13.0 | 27.0 | 0 | 8.0 | 0 | 216.0 | 0.084 | | 0.23 | 0.75 | 0 % | | | | | |

| DOORS | | | | | | | | | | | | (Total Exposed Area = 20 sq.ft.) | | |
|-------|------|-------------|-----------|-------|--------|---------|----------|----|-----------|----|---------|----------------------------------|--|--|
| ✓ # | Ornt | Adjacent To | Door Type | Space | Storms | U-Value | Width Ft | In | Height Ft | In | Area | | | |
| ___ 1 | S | Exterior | Insulated | Main | None | 0.46 | 3.00 | 0 | 6.00 | 8 | 20.0ft² | | | |

| WINDOWS | | | | | | | | | | | | | | | | | (Total Exposed Area = 87 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 | 0.33 | 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 | 0.33 | N | N | 12.0 | 2 | 2.00 | 3.00 | 1.5 | 2.3 | None | None | | | |
| ___ 3 | S | 3 | Vinyl | Low-E Double | Y | 0.26 | 0.33 | N | N | 30.0 | 2 | 3.00 | 5.00 | 1.5 | 2.3 | None | None | | | |
| ___ 4 | W | 4 | Vinyl | Low-E Double | Y | 0.26 | 0.33 | 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) | 0.00036 | 403 | 22.12 | 41.53 | 0.1372 | 7.0 | All | 3456 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 Entry | Heat Pump Power | ---Heat Pump Volt | Current | Ducts | Block |
| ___ 1 | Electric Heat Pump | Small Duct High Velocity/S | | HSPF2: 8.50 | 12.0 | | 0.00 | 0.00 | 0.00 | sys#0 | 1 |

| COOLING SYSTEM | | | | | | | | | |
|----------------|--------------|----------------------------|--------|------------|------------------|--------------|------|----------|-------|
| ✓ # | System Type | Subtype/Speed | AHRI # | Efficiency | Capacity kBtu/hr | Air Flow cfm | SHR | Duct | Block |
| ___ 1 | Central Unit | Small Duct High Velocity/S | | SEER2:21.0 | 12.0 | 360 | 0.75 | Ductless | 1 |

INPUT SUMMARY CHECKLIST REPORT

HOT WATER SYSTEM

| <input checked="" type="checkbox"/> # | System Type | Subtype | Location | EF(UEF) | Cap | Use | SetPnt | Fixt. Flow | Trap | Pipe Ins. | Pipe length |
|---------------------------------------|----------------------|---------------------|-------------|---------------|------------|--------|----------------------|------------|----------|---------------|-------------|
| ___ 1 | Electric | None | Exterior | 0.92 (0.92) | 40.0 gal | 40 gal | 120 deg | Standard | Yes | 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

| <input checked="" type="checkbox"/> Duct # | -----Supply----- Location | R-Value | Area | -----Return----- Location | R-Value | Area | Leakage Type | AHU Location | CFM 25 TOT OUT | QN OUT | AHU SEALED | RLF | HVAC # Heat Cool |
|--|------------------------------|---------|------|------------------------------|---------|------|--------------|--------------|----------------|--------|------------|-----|------------------|
| | | | | | | | | | | | | | |

TEMPERATURES

| | | | | | | | | | | | | | |
|--|---|---|---|---|------------------------------|---|---|---|---|---|---|---|----------|
| Programable Thermostat: N | | | | Ceiling Fans: N | | | | | | | | | |
| 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 type="checkbox"/> Oct | <input checked="" type="checkbox"/> Nov | <input checked="" type="checkbox"/> Dec | |
| Venting | <input type="checkbox"/> Jan | <input type="checkbox"/> Feb | <input checked="" 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 type="checkbox"/> Dec | |
| <input checked="" type="checkbox"/> Thermostat Schedule: HERS 2006 Reference | Hours | | | | | | | | | | | | |
| Schedule Type | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| ___ Cooling (WD) | AM PM | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 |
| ___ Cooling (WEH) | AM PM | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 | 78 78 |
| ___ Heating (WD) | AM PM | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 |
| ___ Heating (WEH) | AM PM | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 | 68 68 |