FORM R405-2020 FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name:SOMANTA - 17TH ST SW 45912480003Street:17TH ST SW 45912480003City, State, Zip:NAPLES, FL, 34117Owner:SUNRISE COLORS LLCDesign Location:FL, Lee/Collier	Builder Name: Permit Office: Permit Number: Jurisdiction: County: COLLIER(Florida Climate Zone 1)
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 3 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2114 Conditioned floor area below grade (ft²) 0 7. Windows(282.2 sqft.) Description a. U-Factor: Sgl, U=1.12 282.15 ft² SHGC: SHGC=0.50 1.233 ft b. U-Factor: N/A ft² SHGC: N/A ft² SHGC: N/A ft² SHGC: 0.500 1.333 ft Area Weighted Average Overhang Depth: 1.333 ft Area Weighted Average SHGC: 0.500 8. Skylights Description Area U-Factor:(AVG) N/A N/A ft² SHGC(AVG): N/A N/A ft² 9. Floor Types Insulation Area	10. Wall Types(2238.5 sqft.) Insulation Area a. Concrete Block - Int Insul, Exterior R=4.1 1471.30 ft ² b. Concrete Block - Int Insul, Exterior R=41.0 532.58 ft ² c. Frame - Wood, Exterior R=19.0 234.67 ft ² d. N/A R= ft ² 11. Ceiling Types(2114.0 sqft.) Insulation Area a. Under Attic (Vented) R=30.0 2114.00 ft ² b. N/A R= ft ² c. N/A R= ft ² 12. Ducts, location & insulation level R ft ² a. Sup: Main, Ret: Main, AH: Attic 6 422.8 b. . . . c. 13. Cooling Systems kBtu/hr Efficiency a. Electric Heat Pump 18.0 HSPF:16.00 14. Heating Systems kBtu/hr Efficiency a. Electric Heat Pump 18.0 HSPF:16.00
a. Slab-On-Grade Edge Insulation $R=0.0$ 2114.00 ft ² b. N/A $R=$ ft ² c. N/A $R=$ ft ²	a. Electric Cap: 40 gallons EF: 0.920 b. Conservation features
	16. Credits None
Glass/Floor Area: 0.133 Total Proposed Mod Total Base	fied Loads: 69.65 Ine Loads: 72.90 PASS
I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. PREPARED BY: DATE: <u>4/4/22</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: DATE: <u>04/04/22</u>	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.

- 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.

- Default duct leakage does not require a Duct Leakage Test Report.

- 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).

Florida Building Code, Energy Conservation, 7th Edition (2020) Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS:

17TH ST SW 45912480003 NAPLES, FL 34117 Permit Number:

MANDATORY REQUIREMENTS - See individual code sections for full details.

SECTION R401 GENERAL

R401.3 Energy Performance Level (EPL) display card - (Mandatory). The building official shall require that an energy performance level (EPL) display card be completed and certified by the builder to be accurate and correct before final approval of the building for occupancy. Florida law (Section 553.9085, Florida Statutes) requires the EPL display card to be included as an addendum to each sales contract for both presold and nonpresold residential buildings. The EPL display card contains information indicating the energy performance level and efficiencies of components installed in a dwelling unit. The building official shall verify that the EPL display card completed and signed by the builder accurately reflects the plans and specifications submitted to demonstrate code compliance for the building. A copy of the EPL display card can be found in Appendix RD.

SECTION R402 BUILDING THERMAL ENVELOPE

R402.4 Air leakage (Mandatory). The building thermal envelope shall be constructed to limit air leakage in accordance with the requirements of Sections R402.4.1 through R402.4.5.

Exception: Dwelling units of R-2 Occupancies and multiple attached single family dwellings shall be permitted to comply with Section C402.5.

- R402.4.1 Building thermal envelope. The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.
- R402.4.1.1 Installation. The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

R402.4.1.2 Testing. The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. 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.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent 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, backdraft 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.
- R402.4.2 Fireplaces. New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.
- R402.4.3 Fenestration air leakage. Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m2), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m2), when tested according to NFRC 400 or AAMA/ WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

R402.4.4 Rooms containing fuel - burning appliances. In Climate Zones 3 through 8, where open combustion air ducts provide combustion air to open combustion fuel burning appliances, the appliances and combustion air opening shall be located outside the building thermal envelope or enclosed in a room, isolated from inside the thermal envelope. Such rooms shall be sealed and insulated in accordance with the envelope requirements of Table R402.1.2, where the walls, floors and ceilings shall meet not less than the basement wall R-value requirement. The door into the room shall be fully gasketed and any water lines and ducts in the room insulated in accordance with Section R403. The combustion air duct shall be insulated where it passes through conditioned space to a minimum of R-8.

Exceptions:

- 1. Direct vent appliances with both intake and exhaust pipes installed continuous to the outside.
- 2. Fireplaces and stoves complying with Section R402.4.2 and Section R1006 of the Florida Building Code, Residential.

R402.4.5 Recessed lighting. Recessed luminaires installed in the building thermal envelope shall be sealed to limit air leakage between conditioned and unconditioned spaces. All recessed luminaires shall be IC-rated and labeled as having an air leakage rate not more than 2.0 cfm (0.944 L/s) when tested in accordance with ASTM E283 at a 1.57 psf (75 Pa) pressure differential. All recessed luminaires shall be sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.

SECTION R403 SYSTEMS

R403.1 Controls

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- R403.1.1 Thermostat provision (Mandatory). At least one thermostat shall be provided for each separate heating and cooling system
- **R403.1.3 Heat pump supplementary heat (Mandatory).** Heat pumps having supplementary electric-resistance heat shall have controls that, except during defrost, prevent supplemental heat operation when the heat pump compressor can meet the heating load.
- R403.3.2 Sealing (Mandatory). All ducts, air handlers, filter boxes and building cavities that 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 C403.2.9.2 of the Commercial Provisions of this code and shall be shown to meet duct tightness criteria below.

Duct tightness shall be verified by testing in accordance with ANSI/RESNET/ICC 380 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), Florida Statutes, to be "substantially leak free" in accordance with Section R403.3.3.

- **R403.3.2.1 Sealed air handler.** Air handlers shall have a manufacturer's designation for an air leakage of no more than 2 percent of the design airflow rate when tested in accordance with ASHRAE 193.
- **R403.3.3 Duct testing (Mandatory).** Ducts shall be pressure tested to determine air leakage by one of the following methods:
 - Rough-in test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the system, including the manufacturer's air handler enclosure if installed at the time of the test. All registers shall be taped or otherwise sealed during the test.

2 Postconstruction test: Total leakage shall be measured with a pressure differential of 0.1 inch w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. Registers shall be taped or otherwise sealed during the test. **Exceptions;**

- 1. A duct air leakage test shall not be required where the ducts and air handlers are located entirely within the building thermal envelope.
- Duct testing is not mandatory for buildings complying by Section 405 of this code. Duct leakage testing is required for Section R405 compliance where credit is taken for leakage, and a duct air leakage Qn to the outside of less than 0.080 (where Qn = duct leakage to the outside in cfm per 100 square feet of conditioned floor area tested at 25 Pascals) is indicated in the compliance report for the proposed design.

A written report of the results of the test shall be signed by the party conducting the test and provided to the code official

- R403.3.5 Building cavities (Mandatory). Building framing cavities shall not be used as ducts or plenums
- R403.4 Mechanical system piping insulation (Mandatory). Mechanical system piping capable of carrying fluids above 105°F (41°C) or below 55°F (13°C) shall be insulated to a minimum of R-3.

R403.4.1 Protection of piping insulation. Piping insulation exposed to weather shall be protected from damage, including that caused by sunlight, moisture, equipment maintenance and wind, and shall provide shielding from solar radiation that can cause degradation of the material. Adhesive tape shall not be permitted.

R403.5.1 Heated water circulation and temperature maintenance systems (Mandatory). If heated water circulation systems are installed, they shall be in accordance with Section R403.5.1.1. Heat trace temperature maintenance systems shall be in accordance with Section R403.5.1.2. Automatic controls, temperature sensors and pumps shall be accessible. Manual controls shall be readily accessible.

R403.5.1.1 Circulation systems. Heated water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermosiphon circulation systems shall be prohibited. Controls for circulating hot water system pumps shall start the pump based on the identification of a demand for hot water within the occupancy. The controls shall automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is no demand for hot water.

R403.5.1.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1 or UL 515. Controls for such systems shall automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy.

R403.5.5 Heat traps (Mandatory). Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 ½ inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.

R403.5.6 Water heater efficiencies (Mandatory).

- **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- R403.5.6.1.2 Shut down. A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- R403.5.6.2 Water-heating equipment. Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
 - **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
 - 1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 - 2. Be installed at an orientation within 45 degrees of true south.
- R403.6 Mechanical ventilation (Mandatory). The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.

R403.6.1 Whole-house mechanical ventilation system fan efficacy. When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.

Exception: Where an air handler that is integral to tested and listed HVAC equipment is used to provide whole-house mechanical ventilation, the air handler shall be powered by an electronically commutated motor.

R403.6.2 Ventilation Air. Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:

1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.

2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.

3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.

R403.7 Heating and cooling equipment.

R403.7.1 Equipment sizing (Mandatory). Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

TABLE R403.6.1WHOLE-HOUSE MECHANICAL VENTILATION SYSTEM FAN EFFICACY

FAN LOCATION	AIRFLOW RATE MINIMUM (CFM)	MINIMUM EFFICACY ^a (CFM/WATT)	AIRFLOW RATE MAXIMUM (CFM)
HRV or ERV	Any	1.2 cfm/watt	Any
Range hoods	Any	2.8 cfm/watt	Any
In-line fan	Any	2.8 cfm/watt	Any
Bathroom, utility room	10	1.4 cfm/watt	<90
Bathroom, utility room	90	2.8 cfm/watt	Any

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

R403.7.1.1 Cooling equipment capacity. Cooling only equipment shall be selected so that its total capacity is not less than the calculated total load but not more than 1.15 times greater than the total load calculated according to the procedure selected in Section R403.7, or the closest available size provided by the manufacturer's product lines. The corresponding latent capacity of the equipment shall not be less than the calculated latent load.

The published value for AHRI total capacity is a nominal, rating-test value and shall not be used for equipment sizing. Manufacturer's expanded performance data shall be used to select cooling-only equipment. This selection shall be based on the outdoor design dry-bulb temperature for the load calculation (or entering water temperature for water-source equipment), the blower CFM provided by the expanded performance data, the design value for entering wet-bulb temperature and the design value for entering dry-bulb temperature.

Design values for entering wet-bulb and dry-bulb temperatures shall be for the indoor dry bulb and relative humidity used for the load calculation and shall be adjusted for return side gains if the return duct(s) is installed in an unconditioned space.

Exceptions:

- 1. Attached single- and multiple-family residential equipment sizing may be selected so that its cooling capacity is less than the calculated total sensible load but not less than 80 percent of that load.
- When signed and sealed by a Florida-registered engineer, in attached single- and multiple-family units, the capacity of equipment may be sized in accordance with good design practice.

R403.7.1.2 Heating equipment capacity.

- R403.7.1.2.1 Heat pumps. Heat pump sizing shall be based on the cooling requirements as calculated according to Section R403.7.1.1, and the heat pump total cooling capacity shall not be more than 1.15 times greater than the design cooling load even if the design heating load is 1.15 times greater than the design cooling load.
- R403.7.1.2.2 Electric resistance furnaces. Electric resistance furnaces shall be sized within 4 kW of the design requirements calculated according to the procedure selected in Section R403.7.1.

R403.7.1.2.3 Fossil fuel heating equipment. The capacity of fossil fuel heating equipment with natural draft atmospheric burners shall not be less than the design load calculated in accordance with Section R403.7.1.

- R403.7.1.3 Extra capacity required for special occasions. Residences requiring excess cooling or heating equipment capacity on an intermittent basis, such as anticipated additional loads caused by major entertainment events, shall have equipment sized or controlled to prevent continuous space cooling or heating within that space by one or more of the following options:
 - 1. A separate cooling or heating system is utilized to provide cooling or heating to the major entertainment areas.
 - 2. A variable capacity system sized for optimum performance during base load periods is utilized.
- R403.8 Systems serving multiple dwelling units (Mandatory). Systems serving multiple dwelling units shall comply with Sections C403 and C404 of the Florida Building Code, Energy Conservation—Commercial Provisions in lieu of Section R403.
- R403.9 Snow melt and ice system controls (Mandatory). Snow- and ice-melting systems, supplied through energy service to the building, shall include automatic controls capable of shutting off the system when the pavement temperature is above 50°F (10°C), and no precipitation is falling and an automatic or manual control that will allow shutoff when the outdoor temperature is above 40°F (4.8°C).
- **403.10 Pools and permanent spa energy consumption (Mandatory).** The energy consumption of pools and permanent spas shall be in accordance with Sections R403.10.1 through R403.10.5.
 - **R403.10.1 Heaters.** The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet (914 mm) of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

R403.10.2 Time switches. Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors. Heaters and pump motors that have built-in time switches shall be in compliance with this section.

Exceptions:

- 1. Where public health standards require 24-hour pump operation.
- 2. Pumps that operate solar- and waste-heat-recovery pool heating systems
- 3. Where pumps are powered exclusively from on-site renewable generation.

R403.10.3 Covers. Outdoor heated swimming pools and outdoor permanent spas shall be equipped with a vapor-retardant cover on or at the water surface or a liquid cover or other means proven to reduce heat loss.

Exception:Where more than 70 percent of the energy for heating, computed over an operation season, is from site-recovered energy, such as from a heat pump or solar energy source, covers or other vapor-retardant means shall not be required

- R403.10.4 Gas- and oil-fired pool and spa heaters. All gas- and oil-fired pool and spa heaters shall have a minimum thermal efficiency of 82 percent for heaters manufactured on or after April 16, 2013, when tested in accordance with ANSI Z 21.56. Pool heaters fired by natural or LP gas shall not have continuously burning pilot lights.
- **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14
- **R403.13 Dehumidifiers (Mandatory).** If installed, a dehumidifier shall conform to the following requirements:

1. The minimum rated efficiency of the dehumidifier shall be greater than 1.7 liters/ kWh if the total dehumidifier capacity for the house is less than 75 pints/day and greater than 2.38 liters/kWh if the total dehumidifier capacity for the house is greater than or equal to 75 pints/day.

2. The dehumidifier shall be controlled by a sensor that is installed in a location where it is exposed to mixed house air.

3. Any dehumidifier unit located in unconditioned space that treats air from conditioned space shall be insulated to a minimum of R-2.

4. Condensate disposal shall be in accordance with Section M1411.3.1 of the Florida Building Code, Residential.

R403.13.1 Ducted dehumidifiers. Ducted dehumidifiers shall, in addition to conforming to the requirements of Section R403.13, conform to the following requirements:

1. If a ducted dehumidifier is configured with return and supply ducts both connected into the supply side of the cooling system, a backdraft damper shall be installed in the supply air duct between the dehumidifier inlet and outlet duct.

2. If a ducted dehumidifier is configured with only its supply duct connected into the supply side of the central heating and cooling system, a backdraft damper shall be installed in the dehumidifier supply duct between the dehumidifier and central supply duct.

3. A ducted dehumidifier shall not be ducted to or from a central ducted cooling system on the return duct side upstream from the central cooling evaporator coil.

4. Ductwork associated with a dehumidifier located in unconditioned space shall be insulated to a minimum of R-6.

SECTION R404 ELECTRICAL POWER AND LIGHTING SYSTEMS

R404.1 Lighting equipment (Mandatory). Not less than 90 percent of the lamps in permanently installed luminaires shall have an efficacy of at least 45 lumens-per-watt or shall utilize lamps with an efficacy of not less than 65 lumens-per-watt.

R404.1.1 Lighting equipment (Mandatory). uel gas lighting systems shall not have continuously burning pilot lights.

2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA TABLE 402.4.1.1

AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA^a

Project Name: Street: City_State_Zip:	SOMANTA - 17TH ST SW 45912480003 Builder 17TH ST SW 45912480003 Permit NAPLES EL 34117 Permit	Name: Office: Number:	
Owner: Design Location:	SUNRISE COLORS LLC Jurisdic FL, Lee/Collier County	ction: COLLIER(Florida Climate Zone 1)	CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.	
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.	
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.	
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.		
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.	
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.	
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace walls.	
Shafts, penetrations	Duct shafts, utility penetrations, and flue shafts opening to exterior or unconditioned space shall be sealed.		
Narrow cavities		Batts in narrow cavities shall be cut to fit, or narrow cavities shall be filled by insulation that on installation readily conforms to the available cavity spaces.	
Garage separation	Air sealing shall be provided between the garage and conditioned spaces.		
Recessed lighting	Recessed light fixtures installed in the building thermal envelope shall be sealed to the finished surface.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.	
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.	
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.	
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.		
HVAC register boots	HVAC supply and return register boots that penetrate building thermal envelope shall be sealed to the sub-floor, wall covering or ceiling penetrated by the boot.		
Concealed sprinklers	When required to be sealed, concealed fire sprinklers shall only be sealed in a manner that is recommended by the manufacturer. Caulking or other adhesive sealants shall not be used to fill voids voids between fire sprinkler cover plates and walls or ceilings.		

				PROJE	ЕСТ					
Title: Building Type: Owner: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Year Construct: Comment:	SOMANTA User SUNRISE Detached New (From	A - 17TH ST SW 45912480 COLORS LLC 1 Plans)	0003 Bedroom Condition Total Sto Worst Ca Rotate Ar Cross Ve Whole Ho Terrain: Shielding	s: ed Area: ries: se: ngle: ntilation: puse Fan: :	3 2114 1 No 0 Suburban Suburban	Addre Lot #: Block PlatBo Street Count City, S	ess type: /SubDivisio ook: t: ty: State, Zip:	Street Add 17TH ST S COLLIER NAPLES, FL, 34117	003	
				CLIMA	ATE					
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V Fuel	Unit	Utility Name					Monthly	Fixed Cost	\$/U	Jnit
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NNoneNENoneENoneSENoneSWNoneWNoneNWNone		0 0 0 0 0 0 0 0	ft ft ft ft ft ft ft ft	O ft O ft O ft O ft O ft O ft O ft O ft	O ft O ft O ft O ft O ft O ft O ft			O ft O ft O ft O ft O ft O ft O ft	O ft O ft O ft O ft O ft O ft O ft O ft	O ft O ft O ft O ft O ft O ft O ft O ft
				BLOC	KS					
V Number	Name	Area	Vol	ume						
1	Block1	2114	23254	4						
				SPAC	ES					
V Number	Name	Area	Volume	Kitchen	Occupants	Bedro	oms	Finished	Cooled	Heated
1	Main	2114	23254	Yes	5	3		Yes	Yes	Yes

	FLOORS									S		(T	otal E	Ехрс	sed	Are	a = 2	2114 s	q.ft.)
V #	Flo	or Typ	е		Space	Exp	bosed Pe	erim	Perim	neter R-V	/alue	Area	U-Fac	ctor Jo	oist R-'	Value	Tile	Wood	Carpet
1	Slab-	-On-Gr	ade Edg	e Ins	Main		161.6		(0	2	2114 ft	0.3	04		-	0.00	0.0	0 1.00
								R	OOF	1									
/ #	Ту	be			Materia	ls	Roo Are	of a	Gab Are	le Roo a Colo	f or	Rad Barr	Solar Absor.	S Te	SA I sted	Emitt	Emit Teste	t Dec d Insu	k Pitch I. (deg)
1	Hip			Cor	nposition s	shingles	2364	4 ft²	0 ft	² Mediu	ım	N	0.96	١	No	0.9	No	0	26.57
								Α	ГТІС										
√ #	Ту	be			Ven	tilation		Ven	t Ratio	(1 in)	Area	ì	RB	5	I	RCC			
1	Full a	attic			Ve	nted			300		2114	ft²	Ν			N			
								CE	ILING	G		(T	otal E	Ехрс	sed	Are	a = 2	2114 s	q.ft.)
V #	Ce	iling Ty	/pe			Spac	ce	R-	Value	Ins. Ty	/pe	Area	u U	-Facto	or Fra	aming	Frac.	Tru	iss Type
1	Unde	er Attic((Vented)			Mai	n	;	30.0	Batt	i 2	2114.0)ft²	0.044		0.11			Nood
								WA	ALLS	5		(Т	otal E	Ехрс	sed	Are	a = 2	2239 s	q.ft.)
\ #	Ornt	Adjace To	ent	Wall Type		Space		Ca R-	avity Value	Width Ft Ir	ı	Heigł Ft I	nt n	Area sq.ft.	U- Factor	She r R-V	ath I alue F	Frm. Sola Frac. Abs	or. Below Grade
1 2 3 4 5	W W E S N	E E E	xterior xterior xterior xterior xterior	Frame - We Conc. Blk - Conc. Blk - Conc. Blk - Conc. Blk -	ood Int Ins Int Ins Int Ins Int Ins	M M M M	lain lain lain lain lain		19.0 4.1 4.1 4.1 4.1 41.0	21.0 32.0 53.0 48.0 48.0	4 0 4 5 5	11.0 11.0 11.0 11.0 11.0 11.0	0 0 0 0	234.7 352.0 586.7 532.6 532.6	0.05 0.13 0.13 0.13 0.13	7 0 0 - 0 - 2 -	.9 0 1 1 1 1	.23 0.7 0 0.7 0 0.7 0 0.7 0 0.7	⁷ 5 0 % 75 0 % 75 0 % 75 0 % 75 0 %
								DC	ORS	S			(Tota	al Ex	pos	ed A	rea	= 21 s	q.ft.)
\ #	Ornt	A	djacent	To Door Ty	pe	Space			Stor	rms		U-Valı	le	Wi Fi	idth t In		Heigh Ft I	n n	Area
1	W		Exterior	Wood		Main	I		N	one		0.4	6	2.00	8	8.	00	0 2	21.3ft ²
							V	VIN	DOV	VS		(Total	Exp	ose	d Ar	ea =	282 s	q.ft.)
\ #	V Ornt	Vall ID F	Frame	Panes	NFRC	U-Factor	SHGC	; Imp	Storm	Total Area (ft²)	Same Units	e Wi s (f	dth He t) (ight ft) I	Over Depth (ft)	hang- Sep. (ft)	- Inte	erior Shac	e Screen
1 2 3 4 5 6 7 8 9	W W W W E E S S N	2 2 2 3 3 4 4 5	Metal Metal Metal Metal Metal Metal Metal Metal	Single (Clear Single (Clear Single (Clear Single (Clear Single (Clear Single (Clear Single (Clear Single (Clear Single (Clear) Y) Y) Y) Y) Y) Y) Y) Y	1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50		N	48.0 12.0 22.4 12.0 96.0 22.4 32.4 6.0 31.0	1 1 2 2 1 2 1 2	6. 6. 3. 6. 4. 3. 3. 3.	00 8. 00 2. 33 5. 00 2. 00 8. 333 5. 00 5. 00 2. 00 5.	00 00 17 00 00 17 25 00 17	1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0		None None None None None None None	None None None None None None None

				INF	FILTF	RATIO	N							
\ #	Scope	Method	SLA	CFM50	El	LA E	EqLA	ACI	H A	CH50		Spac	ce(s)	
1	Wholehouse	Proposed ACH(50)	0.00049	2713	148	3.84 2	79.43	0.15	17	7.0		A	.11	
					GAR	AGE								
\ #	Floo	r Area	Roof Area	Ex	posed \	Wall Perim	eter		Avg. Wa	ll Height	E	xposed \	Wall Insu	llation
1	42	9 ft²	429 ft ²			62 ft			8	ft			1	
					MA	SS								
√ #	Mass Type		Area		Thi	ickness		Furniture	e Fractio	ı	Space)		
1	Default(8 lbs/	/sq.ft.)	0 ft ²			0 ft		0	.30		Mair	۱		
				HEAT	ΓING	SYST	ΈM							
V #	System Type		Subtype/Speed	AHR	RI #	Efficiency	y (Capacity kBtu/hr	G Entry	eothermal Power	HeatPu Volt	ımp Curren	Ducts t	Block
1	Electric Heat	Pump	None/Single			HSPF: 16.	00	18.0		0.00	0.00	0.00	sys#1	1
				COO	LING	SYST	EM							
V #	System Type		Subtype/Speed	AHR	RI #	Efficier	юу	Cap kB	bacity tu/hr	Air Flov cfm	w	SHR	Duct	Block
1	Central Unit		None/Single			SEER:1	6.0	60.0		1800		0.75	sys#1	1
				AH	IU S	YSTEN	Ν							
\ #	Test Mode S	System Number & Typ	e (Proposed)	(Grade					DESIGN Cool	CFM Heat	Prop	osed	
1	1 -	Central Unit/1 - Electr	ric Heat Pump	 	II (AirFI II (Watt II (Refri II (Duct	ow) Draw) g)) Duc	t Syste	em # 1		1800				
			ŀ	HOT W	/ATE	R SYS	STE	М						
\ #	System Type	Subtype	Location	EF	(UEF)	Сар	Us	se Se	tPnt	Fixture Flov	w Pi	pe Ins.	Pipe	length
1	Electric	None	Garage	0.92	2 (0.92)	40.00 gal	60	gal 120) deg	Standard	1	None	ę	99
	Recirculation System	Recirc Contro Type	l L le	oop Br ength le	anch ngth	Pump power	DW	HR Fa	acilities nnected	Equal Flow	D	WHR Eff	Other	Credits
1	No			NA	NA	NA	No		NA	NA	N	A	None)
					DUC	CTS								
√ ^{Duo} √ #	ctSu Location	pply R-Value Area I	Return Location R-	n Value Ar	rea L	eakage Ty	/pe	Air Hand	CF ler T	M 25 CF OT C	M 25 DUT	QN F	l LF He	HVAC # at Cool

	DUCTS(Continued)													
1 M	lain	6.0 423	ft² Main		6.0 106	ft² [Default L	eakage	Attic	(Default) (Default)			1 1
					TEN	IPE	RATU	JRES						
Progra Coolir Heatir Ventir	amable Thermo ng []Jan ng [X]Jan ng []Jan	ostat: N [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	Cei [] May [] May [] May	ling Far [X []	ns: N] Jun Jun Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] Oct [] Oct [X] Oc	[] [X t [X	Nov] Nov] Nov	[] Dec [X] Dec [] Dec
V The Sch	ermostat Schedu nedule Type	ule: HERS 2	2006 Refere 1	ence 2	3	4	5	6	Hours 7	8	9	10	11	12
Coo	oling (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
Coo	oling (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
Hea	ating (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
Hea	ating (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
					REF	RIG	ERA	TORS						
	VID Type Screen Location Quantity Vol Frz. Vol Make Model Schedule kWhPerYr													
1 Def	ault Refrigerato	r Defaul	t New	Main		1	26	5				HER	RS2011	
					CLOT	HES	WA	SHER	S					
	Туре	Scree	n	Location		Capaci	ty		Make	Мо	del	Sche	dule L	₋oadsPerYr
1 Cl v	vasher	Default N	New	Main		2.8	374					HEF	RS2011	312
					CLO.	THE	S DR	YERS						
	Туре	Scree	n	Location		Quanti	ty Fue	I Туре	Make	Мо	del	Sche	dule	kWhPerYr
1 Dry	er	Default Ex	tisting	Main		4.5	5 Ele	ctricity				HER	RS2011	314
					DIS	6HW	ASH	ERS						
VID	Туре	Scree	n	Location		Capaci	ty Vii	ntage	Make	Мо	del	Sche	dule	kWhPerYr
1 Disł	hwasher	Default N	New	Main		12	2013	or Newer				HEF	RS2011	372
				MI	SC EL	ЕСТ	RICA		ADS					
	Туре	Scree	n	Location		Item	Quar	ntity	Catagory	Operati	ng Sch	edule	Off S	tandby
1	Misc Elec Load	I Simple [Default	Main			1			1	HER	S2011		1

Name(Print):	Signature:
Organization:	Date:

					PRO	JEC	Г							
Title: Buildi Owne Builde Permi Jurisci Famil New/F Year Comn	ng Type: r: er Name: it Office: liction: y Type: Existing: Construct: nent:	SOMANTA - 17T User SUNRISE COLC Detached New (From Plans	TH ST SW 45912480 ORS LLC S)	003 Bedroom Conditior Total Sto Worst Ca Rotate A Cross Ve Whole He Terrain: Shielding	s: ned Area ries: nse: ngle: ntilation: buse Far :	3 211 No 0 : n: Sut	4 burban burban	Address type: Lot #: Block/SubDivisio PlatBook: Street: County: City, State, Zip: urban urban		Stree 17TH COLL NAPL FL, 34	Street Address 17TH ST SW 459124 COLLIER NAPLES, FL, 34117			
					CLIN	MATE								
V Desi Loca	gn tion		Tmy Site		De: 97.5%	sign Ten % 2.{	np li 5% V	nt Desigr Vinter S	n Temp ummer	Heating Degree D	l ays	Design Moisture	Dai Rai	ly temp nge
FL,	Lee/Collier		FL_SOUTHWEST_	FLORIDA	_I 46	9	1	70	75	321	:	58	Medi	um
					BLC	OCKS								
V Num	ber	Name	Area	Vo	ume									
1		Block1	2114	2325	4									
					SPA	CES								
V Num	ber	Name	Area	Volume	Kitchen	n Oco	cupants	Bedro	oms	Finishe	d	Coole	ed ⊢	leated
1		Main	2114	23254	Yes		5	3		Yes		Yes	;	Yes
					FLO	ORS		(T	otal Ex	posed	Area	a = 21 ⁻	14 sq	.ft.)
V #	Floor Typ	e	Space	Exposed	Perim	Perime	er R-Valu	ie Area	U-Factor	r Joist R-	Value	Tile W	/ood	Carpet
1	Slab-On-Gr	ade Edge Ins	Main	161.	6	0		2114 ft	t 0.304		-	0.00	0.00	1.00
					RC	OOF								
\ #	Туре		Materials	R A	oof rea	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
1	Hip		Composition shingle	es 23	64 ft²	0 ft²	Medium	Ν	0.96	No	0.9	No	0	26.57
					AT	TIC								
V #	Туре		Ventilation	I	Vent	Ratio (1	in) A	rea	RBS		IRCC			
1	Full attic		Vented			300	21	14 ft ²	Ν		Ν			
					CEI	LING		(T	otal Ex	posed	Area	a = 21 ⁻	14 sq	.ft.)
V #	Ceiling Ty	/pe		Space	R-\	/alue	Ins. Type	Area	a U-Fa	actor Fra	aming	Frac.	Trus	s Туре
1	Under Attic	(Vented)		Main	3	0.0	Batt	2114.0	Oft ² 0.0	44	0.11	_	W	ood

				WALLS							(Total Exposed Area = 2239 sq.ft.)							
\ #	Ornt	Adj	acent To	Wall Type		Space	1	Ca R-	avity Value	Width Ft In	F	leight [:] t In	Area sq.ft.	U- Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
	1 W 2 W 3 E 4 S 5 N		Exterior Exterior Exterior Exterior Exterior	Frame - Woo Conc. Blk - I Conc. Blk - I Conc. Blk - I Conc. Blk - I	od nt Ins nt Ins nt Ins nt Ins	N N N N	lain lain lain lain lain		19.0 4.1 4.1 4.1 4.1 11.0	21.0 4 32.0 0 53.0 4 48.0 5 48.0 5	11 11 11 11 11 11 11	.0 0 .0 0 .0 0 .0 0 .0 0	234.7 352.0 586.7 532.6 532.6	7 0.057 0 0.130 7 0.130 6 0.130 6 0.130 6 0.022	7 0.9) 1) 1) 1 2 1	0.23 0 0 0 0	0.75 0.75 0.75 0.75 0.75	0 % 0 % 0 % 0 % 0 %
								DO	ORS	5		(T	otal E	xpose	ed Area	a = 2	1 sq.	ft.)
\ #	Ornt	:	Adjacent	t To Door Type	e	Space	1		Stor	ms	U	-Value	V	Vidth ⁻ t In	He Ft	ight In	Are	ea
	1 W		Exterio	or Wood		Mair	1		No	one		0.46	2.00	8 0	8.00	0	21.3	3ft ²
							V	/IN	DOW	/S		(To	tal Ex	posed	d Area	= 28	2 sq.	ft.)
√ #	Ornt	Wall D	Frame	Panes	NFRC I	J-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	Overl Depth (ft)	nang Sep. I (ft)	nterior	Shade	Screen
1 2 3 4 5 6 7 8 9	₩ ₩ ₩ ₩ E E S S N	2 2 2 3 3 4 4 5	Metal Metal Metal Metal Metal Metal Metal Metal	Single (Clear) Single (Clear) Single (Clear) Single (Clear) Single (Clear) Single (Clear) Single (Clear) Single (Clear)	Y Y Y Y Y Y Y	1.12 1.12 1.12 1.12 1.12 1.12 1.12 1.12	0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50 0.50	N	Z Z Z Z Z Z Z	48.0 12.0 22.4 12.0 96.0 22.4 32.4 6.0 31.0	1 1 2 1 2 1 2	6.00 6.00 4.33 3.00 6.00 4.33 3.08 3.00 3.00	8.00 2.00 5.17 2.00 8.00 5.17 5.25 2.00 5.17	1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Nor Nor Nor Nor Nor Nor Nor		None None None None None None None
							INF	ILT	RAT	ION								
V #	Sco	ре	Me	ethod	SL	A (CFM50		ELA	EqLA	\	ACH	ACH5	0		Space(s)	
`	1 W	holeho	use Prop	posed ACH(50)	0.00	049	2713	14	18.84	279.4	30	.1517	7.0			All		
L							(GAI	RAG	E								
V #			Floor Area	a	Roof Area	a	Exp	osec	Wall P	erimeter		Avg	. Wall He	eight	Expos	sed Wa	ll Insula	tion
	1		429 ft ²		429 ft ²				62 ft				8 ft			1		
								M	ASS			. –						
V #	Ma	ass Ty	De		Are	ea		Т	hicknes	S	Furn	iture Fra	action		Space			
<u> </u>	1 De	etault(8	lbs/sq.ft.))	0 1	t²			0 ft	OTC-		0.30			Main			
√ #	Sy	vstem 1	Гуре		Subtype/S	peed	AHR	INC #	SY و Effic	SIEN	Capac kBtu/l	ity hr Er	Geoth	ermal H ower	eatPump Volt Cu	D	ucts	Block
	1 El	ectric H	leat Pump)	None/Sir	ngle			HSPF	: 16.00	18.0)	. (0.00	0.00 0).00 sy	/s#1	1

					CC	OLI	NG SY	STEM						
V #	System Type		Su	btype/Spee	d	AHRI #	Effi	ciency	Capacity kBtu/hr	/ Ai	r Flow cfm	SHR	Duct	Block
	1 Central Unit			None/Sing	le		SEE	R:16.0	60.0	,	1800	0.75	sys#1	1
					НОТ	WA	TER S	YSTEM						
V #	# System Type	Subtype		Location		EF(UE	F) Cap) Use	SetPnt	Fixture	e Flow	Pipe Ins	. Pipe	e length
	1 Electric	None		Garage		0.92 (0.	92) 40.00	gal 60 ga	Il 120 deg	Stan	dard	None		99
	Recirculation System	Reciro T	c Control ype		Loop length	Branc lengtl	h Pum h powe	p DWHI er	R Faciliti Connec	es Eq ted Flo	ual ow	DWHR Eff	Othe	r Credits
	1 No				NA	NA	NA	No	NA	N	A	NA	Nor	e
						D	UCTS							
√ [⊑]	DuctSup # Location	oply R-Value Ar	rea Loc	Ret	urn R-Value	 Area	Leakag	е Туре	Air Handler	CFM 25 TOT	CFM 25 OUT	5 QN	RLF H	HVAC # eat Cool
	1 Main	6.0 423 f	t² Main		6.0 <i>´</i>	106 ft ²	Default L	eakage	Attic	(Default)	(Default)			1 1
					TE	EMPE	ERATU	JRES						
P C H V	rogramable Therm ooling []Jan eating [X]Jan enting []Jan	ostat: N [] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr [] Apr [X] Apr	[] N [] N [] N	Ceiling F Iay Iay Iay	⁻ ans: N [X] Jun [] Jun [] Jun	[X] Jul [] Jul [] Jul	[X] Aug [] Aug [] Aug	[X] Sep [] Sep [] Sep	[] O [] O [X] O	ct [ct [> oct [>] Nov (] Nov (] Nov	[] Dec [X] Dec [] Dec
\checkmark	Thermostat Scheo Schedule Type	dule: HERS 2	2006 Refer 1	ence 2	3	4	5	Ho 6	ours 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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD ESTIMATED ENERGY PERFORMANCE INDEX* = 96

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

17TH ST SW 45912480003, NAPLES, FL, 34117

1.	New construction or ex	isting	New (F	rom Plans)
2.	Single family or multiple	e family		Detached
3.	Number of units, if mult	iple family		1
4.	Number of Bedrooms			3
5.	Is this a worst case?			No
6.	Conditioned floor area	above grade below grade	e (ft²) (ft²)	2114 0
7. a.	Windows** U-Factor:	Description Sgl, U=1.12	2	Area 282.15 ft ²
b.	U-Factor: SHGC:	N/A	0	ft ²
C.	U-Factor: SHGC:	N/A		ft ²
A A	rea Weighted Average rea Weighted Average	Overhang D SHGC:	epth:	1.333 ft 0.500
8. I	Skylights U-Factor:(AVG) SHGC(AVG):	Description N/A N/A		Area N/A ft ²
9. a. b. c.	Floor Types Slab-On-Grade Edge N/A N/A	Insulation	Insulation R= 0.0 R= R=	Area 2114.00 ft ² ft ² ft ²

 Wall Types(2238.5 sqft.) Concrete Block - Int Insul, Concrete Block - Int Insul, Concrete Block - Int Insul, Frame - Wood, Exterior N/A 	$\begin{array}{ccc} \text{Insulation} & \text{Area} \\ \text{Exterior R=4.1} & 1471.30 \text{ ft}^2 \\ \text{ExterioR=41.0} & 532.58 \text{ ft}^2 \\ \text{R=19.0} & 234.67 \text{ ft}^2 \\ \text{R=} & \text{ft}^2 \end{array}$
11. Ceiling Types(2114.0 sqft.)a. Under Attic (Vented)b. N/Ac. N/A	Insulation Area R=30.0 2114.00 ft ² R= ft ² R= ft ²
 Ducts, location & insulation I a. Sup: Main, Ret: Main, AH: . b. c. 	evel R ft ² Attic 6 422.8
13. Cooling Systems a. Central Unit	kBtu/hr Efficiency 60.0 SEER:16.00
14. Heating Systems a. Electric Heat Pump	kBtu/hr Efficiency 18.0 HSPF:16.00
15. Hot Water Systems a. Electric	Cap: 40 gallons EF: 0.920
b. Conservation features16. Credits	None None

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: 4/4/2022



Address of New Home: 17TH ST SW 45912480003

City/FL Zip: NAPLES,FL,34117

*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.

Residential System Sizing Calculation

Summary

SUNRISE COLORS LLC 17TH ST SW 45912480003 NAPLES, FL 34117 Project Title: SOMANTA - 17TH ST SW 45912480003

4/4/2022

Location for weather data: Lee/Collier, FL - Defaults: Latitude(26.53) Altitude(15 ft.) Temp Range(M)								
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(58gr.)								
Winter design temperature(TMY3	Winter design temperature(TMY3 99%) 43 F Summer design temperature(TMY3 99%) 93 F							
Winter setpoint	70	F	Summer setpoint	75	F			
Winter temperature difference	27	F	Summer temperature difference	18	F			
Total heating load calculation	23565	Btuh	Total cooling load calculation	50824	Btuh			
Total heating load calculation Submitted heating capacity	23565 % of calc	Btuh Btuh	Total cooling load calculation Submitted cooling capacity	50824 % of calc	Btuh Btuh			
Total heating load calculation Submitted heating capacity Total (Electric Heat Pump)	23565 % of calc 76.4	Btuh Btuh 18000	Total cooling load calculation Submitted cooling capacity Sensible (SHR = 0.75)	50824 % of calc 108.3	Btuh Btuh 45000			
Total heating load calculation Submitted heating capacity Total (Electric Heat Pump) Heat Pump + Auxiliary(0.0kW)	23565 % of calc 76.4 76.4	Btuh Btuh 18000 18000	Total cooling load calculation Submitted cooling capacity Sensible (SHR = 0.75) Latent	50824 % of calc 108.3 161.6	Btuh Btuh 45000 15000			

WINTER CALCULATIONS

Winter Heating Load (for 2114 sqft)

Load component			Load	
Window total	282	sqft	8532	Btuh
Wall total	1935	sqft	5009	Btuh
Door total	21	sqft	265	Btuh
Ceiling total	2114	sqft	1818	Btuh
Floor total	2114	sqft	5149	Btuh
Infiltration	94	cfm	2793	Btuh
Duct loss			0	Btuh
Subtotal			23565	Btuh
Ventilation	Ex:0 cfm; Sup:) cfm	0	Btuh
TOTAL HEAT LO	23565	Btuh		



SUMMER CALCULATIONS

Summer Cooling Load (for 2114 sqft)								
Load component			Load					
Window total	282	sqft	16237	Btuh				
Wall total	1935	sqft	3380	Btuh				
Door total	21	sqft	285	Btuh				
Ceiling total	2114	sqft	2895	Btuh				
Floor total			0	Btuh				
Infiltration	71	cfm	1396	Btuh				
Internal gain			17350	Btuh				
Duct gain			0	Btuh				
Sens.Ventilation Ex:0 c	fm; Sup:0) cfm	0	Btuh				
Blower Load		0	Btuh					
Total sensible gain		41543	Btuh					
Latent gain(ducts)			0	Btuh				
Latent gain(infiltration)		2781	Btuh					
Latent gain(ventilation)	0	Btuh						
Latent gain(internal/occupa	r)	6500	Btuh					
Total latent gain	9281	Btuh						
TOTAL HEAT GAIN			50824	Btuh				



EnergyGauge® System Sizing PREPARED BY: _____ DATE: _____

8th Edition

EnergyGauge® / USRCZB v7.0.03

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:

SUNRISE COLORS LLC 17TH ST SW 45912480003 NAPLES, FL 34117

SOMANTA - 17TH ST SW 45912480003

4/4/2022

Reference City: Lee/Collier, FL (Defaults) Humidity difference: 58gr. Temperature Difference: 18.0F(TMY3 99%) Summer Setpoint: 75 °F (Required Manual J default)

Component Loads for Whole House

		Ту	pe*			Over	hang	Wind	dow Area	a(sqft)	F	ITM	Load	
Window	Panes	SHGC	U InS	n IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	1 NFRC	0.50, 1.	12 No	No	W	1.3ft	0.0ft	48.0	6.6	41.4	31	69	3052	Btuh
2	1 NFRC	0.50, 1.	12 No	No	W	1.3ft	0.0ft	12.0	6.6	5.4	31	69	574	Btuh
3	1 NFRC	0.50, 1.	12 No	No	W	1.3ft	0.0ft	22.4	4.8	17.6	31	69	1359	Btuh
4		0.50, 1.	12 No	No	Ŵ	1.3ft	0.0ft	12.0	6.6	5.4	31	69	5/4	Btuh
5		0.50, 1.	12 INU 12 No	No		1.31	0.01	90.0	13.3	02.7 17.6	31	69	1350	Btub
7	1 NFRC	0.50, 1.	12 No	No	S	1.3ft	0.0ft	32.4	32.4	0.0	31	33	1002	Btuh
8	1 NFRC	0.50, 1.	12 No	No	ŝ	1.3ft	0.0ft	6.0	6.0	0.0	31	33	186	Btuh
9	1 NFRC	0.50, 1.	12 No	No	N	1.3ft	0.0ft	31.0	0.0	31.0	31	31	959	Btuh
	Excursion	n											1069	Btuh
	Window	v Total						282 (sqft)				16237	Btuh
Walls	Туре				U	-Value	∍ R-\	/alue	Area	(sqft)		HTM	Load	
							Cav/S	heath						
1	Frame - V	Wood - E	xt			0.07	19.0)/0.9	21	3.3		1.5	323	Btuh
2	Concrete	Blk,Holl	ow - Ex	t		0.13	4.1/	1.0	25	7.6		2.4	612	Btuh
3	Concrete	Blk,Holl	ow - E>	t		0.13	4.1/	1.0	46	8.3		2.4	1113	Btuh
4	Concrete	BIK,HOI	0W - EX	t +		0.13	4.1/	1.0	49	4.2		2.4	11/4	Btuh
5		i Dik,riuli Mal	JW - E)	l		0.02	41.0	/1.0	102	E (caft)		0.5	2290	Diun
Doors		nai							193	$\frac{(sqft)}{(sqft)}$		ытм	Load	Dluii
Doors	iyhe	torior							Alea			10.0	LUau	Dtub
1									21	.3 1 (oaft)		13.3	200	Diun
Callinge			-			Value			<u> </u>	(sqii)			205	Dlun
Cenings	Type/C	0101/50	nace		U	-value	9	R-value	e Area	(sqit)		HIW	Load	
1	Vented A	ttic/Light	/Shing	е		0.032	;	30.0/0.0	211	4.0		1.37	2895	Btuh
	Ceiling	Iotal							211	4 (sqft)			2895	Btuh
Floors	Туре						R-\	/alue	Si	ze		HIM	Load	
1	Slab On	Grade						0.0	21	14 (ft-peri	meter)	0.0	0	Btuh
	Floor To	otal							2114	0 (sqft)			0	Btuh
											_			
									E	nvelope	Subtota	1:	22797	Btuh
Infiltration					Ave	rade A	CH	Volu	me(cuff) Wall R	atio	CFM=	Load	
	Natural						0.18		23254	1		70.6	1396	Btuh
Internal						Occu	pants		Btuh/od	cupant		Appliance	Load	
gain							5		X 23	0 +	-	16200	17350	Btuh
							<u> </u>							
									S	ensible I	nvelop	e Load:	41543	Btuh
Duct load	Average	sealed, S	Supply(R6.0-0	Condi),	Return	n(R6.0-0	Condi)		(DG	M of 0.0	00)	0	Btuh
									Sei	nsible L	oad All	Zones	41543	Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

SUNRISE COLORS LLC 17TH ST SW 45912480003 NAPLES, FL 34117 Project Title: Climate:FL_SOUTHWEST_FLORIDA_I SOMANTA - 17TH ST SW 45912480003

4/4/2022

WHOLE HOUSE TOTALS								
	Sensible Envelope Load All Zones Sensible Duct Load	41543 0	Btuh Btuh					
	Total Sensible Zone Loads	41543	Btuh					
	Sensible ventilation (Ex:0 cfm; Sup:0 cfm)	0	Btuh					
	Blower	0	Btuh					
Whole House	Total sensible gain	41543	Btuh					
Totals for Cooling	Latent infiltration gain (for 58 gr. humidity difference)	2781	Btuh					
	Latent ventilation gain	0	Btuh					
	Latent duct gain	0	Btuh					
	Latent occupant gain (5.0 people @ 200 Btuh per person)	1000	Btuh					
	Latent other gain	5500	Btuh					
	Latent total gain	9281	Btuh					
	TOTAL GAIN	50824	Btuh					

EQUIPMENT

1. Central Unit

*Key: Window types (Panes - Number and type of panes of glass)

(SHGC - Shading coefficient of glass as SHGC numerical value)

(U - Window U-Factor)

- (InSh Interior shading device: none(No), Blinds(B), Draperies(D) or Roller Shades(R))
 - For Blinds: Assume medium color, half closed

#

- For Draperies: Assume medium weave, half closed
- For Roller shades: Assume translucent, half closed (IS Insect screen: none(N), Full(F) or Half(½))
- (Ornt compass orientation)



60000 Btuh

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

SUNRISE COLORS LLC 17TH ST SW 45912480003 NAPLES, FL 34117 Project Title: SOMANTA - 17TH ST SW 45912480003 Building Type: User

4/4/2022

Reference City: Lee/Collier, FL (Defaults) Winter Temperature Difference: 27.0 °F (TMY3 99%) Winter Setpoint: 70 °F (Required Manual J default)

Component Loads for Whole House

Window	Panes/Type	Fram	ne U	Orientation	Area(soft) X	HTM=	Load
1	1. NFRC 0.50	Meta	1.12	W	48.0	30.2	1452 Btuh
2	1. NFRC 0.50	Meta	1.12	Ŵ	12.0	30.2	363 Btuh
3	1. NFRC 0.50	Meta	1.12	Ŵ	22.4	30.2	677 Btuh
4	1. NFRC 0.50	Meta	1.12	Ŵ	12.0	30.2	363 Btuh
5	1. NFRC 0.50	Meta	1.12	E	96.0	30.2	2903 Btuh
6	1. NFRC 0.50	Meta	1.12	Е	22.4	30.2	677 Btuh
7	1, NFRC 0.50	Meta	1.12	S	32.4	30.2	979 Btuh
8	1, NFRC 0.50	Meta	1.12	S	6.0	30.2	181 Btuh
9	1, NFRC 0.50	Meta	1.12	Ν	31.0	30.2	937 Btuh
	Window Total				282.2(sqft)		8532 Btuh
Walls	Туре	Ornt.	Ueff.	R-Value	Area X	HTM=	Load
				(Cav/Sh)			
1	Frame - Wood	- Ext	(0.074)	19.0/0.9	213	2.01	428 Btuh
2	Conc Blk,Hollow	- Ext	(0.130)	4.1/1.0	258	3.51	903 Btuh
3	Conc Blk,Hollow	- Ext	(0.130)	4.1/1.0	468	3.51	1642 Btuh
4	Conc Blk,Hollow	- Ext	(0.130)	4.1/1.0	494	3.51	1733 Btuh
5	Conc Blk,Hollow	- Ext	(0.022)	41.0/1.0	502	0.61	304 Btuh
	Wall Total				1935(sqft)		5009 Btuh
Doors	Туре	Storr	n Ueff.		Area X	HTM=	Load
1	Wood - Exterior,	n	(0.460)		21	12.4	265 Btuh
	Door Total				21(sqft)		265Btuh
Ceilings	Type/Color/Surfa	ace	Ueff.	R-Value	Area X	HTM=	Load
1	Vented Attic/L/S	hing (C).032)	30.0/0.0	2114	0.9	1818 Btuh
	Ceiling Total				2114(sqft)		1818Btuh
Floors	Туре		Ueff.	R-Value	Size X	HTM=	Load
1	Slab On Grade		(1.180)	0.0	161.6 ft(per	im.) 31.9	5149 Btuh
	Floor Total				2114 sqft		5149 Btuh
					Envolope Subt	talı	20772 Dtub
					Envelope Subic	nai.	20773 Bluff
Infiltration	Туре	Who	lehouse A	CH Volume	(cuft) Wall Rat	io CFM=	
	Natural		0	.24 2325	4 1.00	94.1	2793 Btuh
Duct load	Average sealed.	R6.0, S	upply(Cor	n), Return(C	on) (DLM	of 0.000)	0 Btuh
	<u> </u>	-, -	11 7(,,	, , ,	/	
All Zones				Sensible	e Subtotal All 7	ones	23565 Btub

Manual J Winter Calculations

Residential Load - Component Details (continued)

SUNRISE COLORS LLC 17TH ST SW 45912480003 **NAPLES, FL 34117**

Project Title: SOMANTA - 17TH ST SW 45912480003 Building Type: User

4/4/2022

WHOLE HOUSE TOTALS

EQUIPMENT

1. Electric Heat Pump	#	18000 Btuh
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Key: Window types - NFRC (Requires U-Factor and Shading coefficient(SHGC) of glass as numerical values) or - Glass as 'Clear' or 'Tint' (Uses U-Factor and SHGC defaults)

U - (Window U-Factor) HTM - (ManualJ Heat Transfer Multiplier)



Version 8

Envelope Leakage Test Report (Blower Door Test) Residential Prescriptive, Performance or ERI Method Compliance 2020 Florida Building Code, Energy Conservation, 7th Edition

Job Information Builder: Community: Lot: NA Address: 17TH ST SW 45912480003	Jurisdiction:	Permit #:
Builder: Community: Lot: NA Address: 17tH ST SW 45912480003 City: NAPLES State: FL Zip: 34117 Ad Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State: RESCRIPTIVE 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. Image: PerformAnce or ERI 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. Image: 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 R405-2020 (ERI formance) or R406-2020 (ERI): 7.000 Image: Performance or Performance or R406-2020 (ERI): 7.000	Job Information	
Address: 17H ST SW 45912480003 City: NAPLES State: FL Zip: 3417. Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State: Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State: Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State: Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State: Passing results must meet either the 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 FM06-2020 (ERI); section labeled as infittration, sub-section ACH50. ACH(50) value, as shown on FM06-2020 (ERI); meetion of RA06-2020 (ERI); Tool Image: CFM(50) Passing Method for calculating building volume: Retrieved from architectural plans Code software calculated Image: Babil Bo conducted by building department. Retrieved from architectural plans Code software calculated Must be verified by building department. Retrieved from architectural plans Code software calculated Must be verified by building department. Retrieved from architectural plans Retrieved from architectural plans Must be verified by building department. Retrieved f	Builder: Community:	Lot: NA
Ciry: NAPLES Stat: FL Zip: 3417 AI Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method Image: State Sta	Address: 17TH ST SW 45912480003	
Air Leakage Test Results Passing results must meet either the Performance, Prescriptive, or ERI Method	City: NAPLES State	e: FL Zip: 34117
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 R405-2020 (Performance) or R406-2020 (ERI): action labeled as infiltration, sub-section ACH(50) ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 7.000 T	Air Leakage Test Results Passing results must meet	either the Performance, Prescriptive, or ERI Method
the selected ACH(50) value, as shown on Form R405-2020 (Performance) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50 ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 7.00	PRESCRIPTIVE METHOD-The building or dwelling unit shall be te changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir PEREORMANCE or ERI METHOD-The building or dwelling unit shall be te changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Clir	sted and verified as having an air leakage rate of not exceeding 7 air nate Zones 1 and 2.
Image: Second	the selected ACH(50) value, as shown on Form R405-2020 (Performance ACH(50) specified on Form R405-2020-Energy Ca	a) or R406-2020 (ERI), section labeled as infiltration, sub-section ACH50. <i>Ic (Performance) or R406-2020 (ERI):</i>
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), <i>Florida Statues.or</i> 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 <i>building thermal envelope</i> . 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 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 fully open. Testing Company Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test:	$ \begin{array}{c c} \hline & x & 60 \div \underline{23254} \\ \hline & & \\ \hline \\ \hline$	 Method for calculating building volume: Retrieved from architectural plans Code software calculated Field measured and calculated
Testing Company Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test:	 R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/ Testing shall be conducted by either individuals as defined in Section 553. 489.105(3)(f), (g), or (i) or an approved third party. A written report of the r provided to the <i>code official</i>. Testing shall be performed at any time after c During testing: Exterior windows and doors, fireplace and stove doors shall be closed, I control measures. Dampers including exhaust, intake, makeup air, back draft and flue dan measures. Interior doors, if installed at the time of the test, shall be open. Exterior doors for continuous ventilation systems and heat recovery ver 5. Heating and cooling systems, if installed at the time of the test, shall be for 	RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). 993(5) or (7), <i>Florida Statues.or</i> individuals licensed as set forth in Section esults of the test shall be signed by the party conducting the test and reation of all penetrations of the <i>building thermal envelope</i> . but not sealed, beyond the intended weatherstripping or other infiltration npers shall be closed, but not sealed beyond intended infiltration control tilators shall be closed and sealed. turned off.
Company Name: Phone: I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: Date of Test:	Testing Company	
Signature of Tester: Date of Test:	Company Name: I hereby verify that the above Air Leakage results are in accordar Energy Conservation requirements according to the compliance	Phone: nce with the 2020 7th Edition Florida Building Code method selected above.
Drinted News of Tester	Signature of Tester:	Date of Test:
Printed Name of Tester:	Printed Name of Tester:	
License/Certification #: Issuing Authority:	License/Certification #:	_ Issuing Authority: