

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

Florida Department of Business and Professional Regulation Simulated Performance Alternative (Performance) Method

Applications for compliance with the 2022 Florida Building Code, Energy Conservation via the Residential Simulated Performance Alternative shall include:

- ☒ This checklist
- ☒ Form R405-2022 report
- ☒ Input summary checklist that can be used for field verification (usually four pages/may be greater)
- ☒ Energy Performance Level (EPL) Display Card (one page)
- ☒ HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7
- ☒ Mandatory Requirements (five pages)

Required prior to CO:

- ☒ Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)
- ☒ A completed 2022 Envelope Leakage Test Report (usually one page); exception in R402.4 allows dwelling units of R-2 Occupancies and multiple attached single family dwellings to comply with Section C402.5
- ☒ If Form R405 duct leakage type indicates anything other than "default leakage", then a completed 2020 Duct Leakage Test Report - Performance Method (usually one page)

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 83

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

6200 SW 123RD TERRACE,PINECREST,FL,33156

1. New construction or existing	New (From Plans)	10. Wall Types(9470.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Concrete Block - Int Insul, Exterior	R=4.1	9470.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	7	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	8101	11. Ceiling Types(3746.6 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Single assembly, with (Unvented)	R=30.0	3746.60 ft ²
7. Windows**	Description	b. N/A		
a. U-Factor:	Sgl, U=0.94	c. N/A		
SHGC:	SHGC=0.40	12. Roof(Concrete, Unvent)	Deck R=30.0	581 ft ²
b. U-Factor:	N/A	13. Ducts, location & insulation level	R	ft ²
SHGC:		a. Sup: DINING RO, Ret: DINING	6.0000040688766	RO339
c. U-Factor:	N/A	b. Sup: DINING RO, Ret: DINING	6.0000040688766	RO304
SHGC:		c. 3 additional duct system(s)		(see details)
Area Weighted Average Overhang Depth:	3.796 ft	14. Cooling Systems	kBtu/hr	Efficiency
Area Weighted Average SHGC:	0.400	a. Central Unit	45.9	SEER2:22.00
8. Skylights	Description	b. Central Unit	45.9	SEER2:22.00
U-Factor:(AVG)	N/A	3 additional cooling systems		(see details)
SHGC(AVG):	N/A	15. Heating Systems	kBtu/hr	Efficiency
9. Floor Types	Insulation	a. Electric Strip Heat	34.2	COP:1.00
a. Slab-On-Grade Edge Insulation	R= 0.0	b. Electric Strip Heat	34.2	COP:1.00
b. N/A	R=	3 additional heating systems		(see details)
c. N/A	R=	16. Hot Water Systems		
		a. PropaneTankless	Cap: 1 gallons	EF: 0.950
		b. Conservation features		
		17. Credits	None	Pstat

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.

Designer

Builder Signature: _____



2024.01

30

Date: _____

Address of New Home: 6200 SW 123RD TERRACE

City/FL Zip: PINECREST,FL,33156



*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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	23-0822 CASAS OHAD	Bedrooms:	7	Address type:	Street Address
Building Type:	User	Conditioned Area:	8101	Lot #:	---
Owner:		Total Stories:	2	Block/SubDivision:	---
Builder Home ID:		Worst Case:	No	PlatBook:	---
Builder Name:	23-0822 CASAS OHAD	Rotate Angle:	0	Street:	6200 SW 123RD TERRACE
Permit Office:		Cross Ventilation:	No	County:	Miami-Dade
Jurisdiction:		Whole House Fan:	No	City, State, Zip:	PINECREST, FL, 33156
Family Type:	Detached	Terrain:	Suburban		
New/Existing:	New (From Plans)	Shielding:	Suburban		
Year Construct:	2024				
Comment:					

CLIMATE

✓ Design Location	Tmy Site	Design Temp 97.5% 2.5%	Int Design Temp Winter Summer	Heating Degree Days	Design Moisture	Daily temp Range
___ FL, Fort Lauderdale	FL_FORT_LAUDERDALE_HOL	43 91	70 75	321.5	60	Low

BLOCKS

✓ Number	Name	Area	Volume
___ 1	AHU/CU-1	1697	20364 cu ft
___ 2	AHU/CU-2	1518	18216 cu ft
___ 3	AHU/CU-3	1755	21060 cu ft
___ 4	AHU/CU-4	1576	18907 cu ft
___ 5	AHU/CU-5	1555	19080 cu ft

SPACES

✓ Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated
___ 1	DINING ROOM	993	11914	No	5	0	Yes	Yes	Yes
___ 2	LIVING ROOM	704	8450	No	2	0	Yes	Yes	Yes
___ 3	FAMILY ROOM	501	6016	No	2	0	Yes	Yes	Yes
___ 4	KITCHEN	519	6228	Yes	2	0	Yes	Yes	Yes
___ 5	PANTRY	150	1800	No	0	0	Yes	Yes	Yes
___ 6	POWDER	51	612	No	0	0	Yes	Yes	Yes
___ 7	STAIRS	297	3560	No	0	0	Yes	Yes	Yes
___ 8	BATH 113	127	1524	No	0	0	Yes	Yes	Yes
___ 9	BATH 116	127	1524	No	0	0	Yes	Yes	Yes
___ 10	BATH 124	106	1272	No	0	0	Yes	Yes	Yes
___ 11	BEDROOM 112	279	3342	No	1	1	Yes	Yes	Yes
___ 12	BEDROOM 117	279	3342	No	1	1	Yes	Yes	Yes
___ 13	GYM	208	2491	No	1	0	Yes	Yes	Yes
___ 14	HALL	328	3936	No	0	0	Yes	Yes	Yes
___ 15	LAUNDRY	93	1118	No	0	0	Yes	Yes	Yes
___ 16	MAIDS	174	2088	No	1	1	Yes	Yes	Yes
___ 17	POOL BATH	35	422	No	0	0	Yes	Yes	Yes
___ 18	BATH 210	75	900	No	0	0	Yes	Yes	Yes
___ 19	BATH 216	75	900	No	0	0	Yes	Yes	Yes
___ 20	BEDROOM 209	287	3442	No	1	1	Yes	Yes	Yes
___ 21	BEDROOM 217	287	3442	No	1	1	Yes	Yes	Yes
___ 22	HALL 2ND FL	360	4320	No	0	0	Yes	Yes	Yes
___ 23	NURSERY	246	2952	No	1	1	Yes	Yes	Yes
___ 24	PLAY ROOM	246	2952	No	0	0	Yes	Yes	Yes
___ 25	HALL 2ND FL EAST	132	1584	No	0	0	Yes	Yes	Yes
___ 26	HALL ON MASTER	98	780	No	0	0	Yes	Yes	Yes
___ 27	HER MASTER CLOSET	232	2784	No	0	0	Yes	Yes	Yes
___ 28	HIS MASTER CLOSET	191	2286	No	0	0	Yes	Yes	Yes

INPUT SUMMARY CHECKLIST REPORT

SPACES(Continued)

___ 29	MASTER BATH	298	3570	No	0	0	Yes	Yes	Yes
___ 30	MASTER BEDROOM	336	4026	No	2	1	Yes	Yes	Yes
___ 31	STAIR 2ND FL	270	4050	No	0	0	Yes	Yes	Yes

FLOORS

(Total Exposed Area = 4970 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	DINING ROOM	60.4	992.8 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 2	Slab-On-Grade Edge Ins	LIVING ROOM	44.8	704.2 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 3	Slab-On-Grade Edge Ins	FAMILY ROOM	64.4	501.3 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 4	Slab-On-Grade Edge Ins	KITCHEN	19.7	519 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 5	Slab-On-Grade Edge Ins	PANTRY	13	150 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 6	Slab-On-Grade Edge Ins	POWDER	0.1	51 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 7	Slab-On-Grade Edge Ins	STAIRS	49.9	296.7 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 8	Slab-On-Grade Edge Ins	BATH 113	7	127 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 9	Slab-On-Grade Edge Ins	BATH 116	7	127 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 10	Slab-On-Grade Edge Ins	BATH 124	16	106 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 11	Slab-On-Grade Edge Ins	BEDROOM 112	12.7	278.5 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 12	Slab-On-Grade Edge Ins	BEDROOM 117	12.8	278.5 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 13	Slab-On-Grade Edge Ins	GYM	12.4	207.6 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 14	Slab-On-Grade Edge Ins	HALL	42.4	328 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 15	Slab-On-Grade Edge Ins	LAUNDRY	0.1	93.2 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 16	Slab-On-Grade Edge Ins	MAIDS	14.6	174 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00
___ 17	Slab-On-Grade Edge Ins	POOL BATH	5.3	35.2 sqft	0	---	0.692	2 (ft)/0 (ft)	0.80	0.20	0.00

ROOF

✓ #	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Flat	Concrete	581 ft²	24 ft²	Medium	N	0.65	No	0.9	No	30	4.76

ATTIC

✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	No attic	Unvented	0	578.9 ft²	N	Y

CEILING

(Total Exposed Area = 3747 sq.ft.)

✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Single assembly, with airspace(Unvented)	BATH 124	30.0	Blown	106.0ft²	0.017	0.11	Wood
___ 2	Single assembly, with airspace(Unvented)	GYM	30.0	Blown	207.6ft²	0.017	0.11	Wood
___ 3	Single assembly, with airspace(Unvented)	LAUNDRY	30.0	Blown	93.2ft²	0.017	0.11	Wood
___ 4	Single assembly, with airspace(Unvented)	MAIDS	30.0	Blown	174.0ft²	0.017	0.11	Wood
___ 5	Single assembly, with airspace(Unvented)	POOL BATH	30.0	Blown	35.2ft²	0.017	0.11	Wood
___ 6	Single assembly, with airspace(Unvented)	BATH 210	30.0	Blown	75.0ft²	0.017	0.11	Wood
___ 7	Single assembly, with airspace(Unvented)	BATH 216	30.0	Blown	75.0ft²	0.017	0.11	Wood
___ 8	Single assembly, with airspace(Unvented)	BEDROOM 209	30.0	Blown	286.8ft²	0.017	0.11	Wood
___ 9	Single assembly, with airspace(Unvented)	BEDROOM 217	30.0	Blown	286.8ft²	0.017	0.11	Wood
___ 10	Single assembly, with airspace(Unvented)	HALL 2ND FL	30.0	Blown	360.0ft²	0.017	0.11	Wood
___ 11	Single assembly, with airspace(Unvented)	NURSERY	30.0	Blown	246.0ft²	0.017	0.11	Wood
___ 12	Single assembly, with airspace(Unvented)	PLAY ROOM	30.0	Blown	246.0ft²	0.017	0.11	Wood
___ 13	Single assembly, with airspace(Unvented)	HALL 2ND FL EAST	30.0	Blown	132.0ft²	0.017	0.11	Wood
___ 14	Single assembly, with airspace(Unvented)	HALL ON MASTER	30.0	Blown	97.5ft²	0.017	0.11	Wood
___ 15	Single assembly, with airspace(Unvented)	MASTER MASTER CLOSET	30.0	Blown	232.0ft²	0.017	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

CEILING(Continued)

___ 16	Single assembly, with airspace(Unvented)	HER MASTER CLOSET	30.0	Blown	190.5ft²	0.017	0.11	Wood
___ 17	Single assembly, with airspace(Unvented)	MASTER BATH	30.0	Blown	297.5ft²	0.017	0.11	Wood
___ 18	Single assembly, with airspace(Unvented)	MASTER BEDROOM	30.0	Blown	335.5ft²	0.017	0.11	Wood
___ 19	Single assembly, with airspace(Unvented)	STAIR 2ND FL	30.0	Blown	270.0ft²	0.017	0.11	Wood

WALLS

(Total Exposed Area = 9470 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	Conc. Blk - Int Ins	DINING ROOM	4.1	30.0	2	12.0	0	362.0	0.149	0	0	0.50	0 %
___ 2	S	Exterior	Conc. Blk - Int Ins	DINING ROOM	4.1	30.0	2	12.0	0	362.0	0.149	0	0	0.50	0 %
___ 3	N	Exterior	Conc. Blk - Int Ins	LIVING ROOM	4.1	22.0	4	12.0	0	268.0	0.149	0	0	0.50	0 %
___ 4	S	Exterior	Conc. Blk - Int Ins	LIVING ROOM	4.1	22.0	4	12.0	0	268.0	0.149	0	0	0.50	0 %
___ 5	E	Exterior	Conc. Blk - Int Ins	FAMILY ROOM	4.1	19.0	0	12.0	0	228.0	0.149	0	0	0.50	0 %
___ 6	S	Exterior	Conc. Blk - Int Ins	FAMILY ROOM	4.1	26.0	6	12.0	0	318.0	0.149	0	0	0.50	0 %
___ 7	W	Exterior	Conc. Blk - Int Ins	FAMILY ROOM	4.1	18.0	8	12.0	0	224.0	0.149	0	0	0.50	0 %
___ 8	E	Exterior	Conc. Blk - Int Ins	KITCHEN	4.1	19.0	7	12.0	0	235.0	0.149	0	0	0.50	0 %
___ 9	E	Exterior	Conc. Blk - Int Ins	PANTRY	4.1	13.0	0	12.0	0	156.0	0.149	0	0	0.50	0 %
___ 10	W	Exterior	Conc. Blk - Int Ins	STAIRS	4.1	13.0	3	12.0	0	159.0	0.149	0	0	0.50	0 %
___ 11	N	Exterior	Conc. Blk - Int Ins	STAIRS	4.1	26.0	6	12.0	0	318.0	0.149	0	0	0.50	0 %
___ 12	E	Exterior	Conc. Blk - Int Ins	STAIRS	4.1	10.0	0	12.0	0	120.0	0.149	0	0	0.50	0 %
___ 13	S	Exterior	Conc. Blk - Int Ins	BATH 113	4.1	7.0	0	12.0	0	84.0	0.149	0	0	0.50	0 %
___ 14	S	Exterior	Conc. Blk - Int Ins	BATH 116	4.1	7.0	0	12.0	0	84.0	0.149	0	0	0.50	0 %
___ 15	S	Exterior	Conc. Blk - Int Ins	BATH 124	4.1	16.0	0	12.0	0	192.0	0.149	0	0	0.50	0 %
___ 16	W	Exterior	Conc. Blk - Int Ins	BATH 124	4.1	6.0	8	12.0	0	80.0	0.149	0	0	0.50	0 %
___ 17	S	Exterior	Conc. Blk - Int Ins	BEDROOM 112	4.1	12.0	7	12.0	0	151.0	0.149	0	0	0.50	0 %
___ 18	S	Exterior	Conc. Blk - Int Ins	BEDROOM 117	4.1	12.0	8	12.0	0	152.0	0.149	0	0	0.50	0 %
___ 19	S	Exterior	Conc. Blk - Int Ins	GYM	4.1	12.0	4	12.0	0	148.0	0.149	0	0	0.50	0 %
___ 20	N	Exterior	Conc. Blk - Int Ins	HALL	4.1	42.0	4	12.0	0	508.0	0.149	0	0	0.50	0 %
___ 21	W	Exterior	Conc. Blk - Int Ins	MAIDS	4.1	14.0	6	12.0	0	174.0	0.149	0	0	0.50	0 %
___ 22	S	Exterior	Conc. Blk - Int Ins	POOL BATH	4.1	5.0	3	12.0	0	63.0	0.149	0	0	0.50	0 %
___ 23	S	Exterior	Conc. Blk - Int Ins	BATH 210	4.1	7.0	0	12.0	0	84.0	0.149	0	0	0.50	0 %
___ 24	S	Exterior	Conc. Blk - Int Ins	BATH 216	4.1	7.0	0	12.0	0	84.0	0.149	0	0	0.50	0 %
___ 25	S	Exterior	Conc. Blk - Int Ins	BEDROOM 209	4.1	12.0	8	12.0	0	152.0	0.149	0	0	0.50	0 %
___ 26	S	Exterior	Conc. Blk - Int Ins	BEDROOM 217	4.1	12.0	8	12.0	0	152.0	0.149	0	0	0.50	0 %
___ 27	W	Exterior	Conc. Blk - Int Ins	BEDROOM 217	4.1	19.0	7	12.0	0	235.0	0.149	0	0	0.50	0 %
___ 28	W	Exterior	Conc. Blk - Int Ins	BEDROOM 217	4.1	8.0	0	12.0	0	96.0	0.149	0	0	0.50	0 %
___ 29	N	Exterior	Conc. Blk - Int Ins	HALL 2ND FL	4.1	33.0	0	12.0	0	396.0	0.149	0	0	0.50	0 %
___ 30	W	Exterior	Conc. Blk - Int Ins	HALL 2ND FL	4.1	4.0	3	12.0	0	51.0	0.149	0	0	0.50	0 %
___ 31	N	Exterior	Conc. Blk - Int Ins	HALL 2ND FL	4.1	30.0	0	12.0	0	360.0	0.149	0	0	0.50	0 %
___ 32	S	Exterior	Conc. Blk - Int Ins	NURSERY	4.1	12.0	1	12.0	0	145.0	0.149	0	0	0.50	0 %
___ 33	S	Exterior	Conc. Blk - Int Ins	PLAY ROOM	4.1	12.0	7	12.0	0	151.0	0.149	0	0	0.50	0 %
___ 34	N	Exterior	Conc. Blk - Int Ins	HALL 2ND FL EAST	4.1	20.0	6	12.0	0	246.0	0.149	0	0	0.50	0 %
___ 35	E	Exterior	Conc. Blk - Int Ins	HALL 2ND FL EAST	4.1	7.0	7	12.0	0	91.0	0.149	0	0	0.50	0 %
___ 36	E	Exterior	Conc. Blk - Int Ins	HALL ON MASTER	4.1	10.0	8	12.0	0	128.0	0.149	0	0	0.50	0 %
___ 37	N	Exterior	Conc. Blk - Int Ins	HER MASTER CLOSET	4.1	16.0	4	12.0	0	196.0	0.149	0	0	0.50	0 %
___ 38	E	Exterior	Conc. Blk - Int Ins	HER MASTER CLOSET	4.1	14.0	0	12.0	0	168.0	0.149	0	0	0.50	0 %
___ 39	W	Exterior	Conc. Blk - Int Ins	HER MASTER CLOSET	4.1	5.0	0	12.0	0	60.0	0.149	0	0	0.50	0 %
___ 40	S	Exterior	Conc. Blk - Int Ins	MASTER BATH	4.1	28.0	5	12.0	0	341.0	0.149	0	0	0.50	0 %
___ 41	W	Exterior	Conc. Blk - Int Ins	MASTER BEDROOM	4.1	19.0	2	12.0	0	230.0	0.149	0	0	0.50	0 %
___ 42	S	Exterior	Conc. Blk - Int Ins	MASTER BEDROOM	4.1	17.0	6	12.0	0	210.0	0.149	0	0	0.50	0 %
___ 43	E	Exterior	Conc. Blk - Int Ins	MASTER BEDROOM	4.1	19.0	2	12.0	0	230.0	0.149	0	0	0.50	0 %
___ 44	W	Exterior	Conc. Blk - Int Ins	STAIR 2ND FL	4.1	10.0	4	15.0	0	155.0	0.149	0	0	0.50	0 %
___ 45	N	Exterior	Conc. Blk - Int Ins	STAIR 2ND FL	4.1	26.0	2	15.0	0	392.5	0.149	0	0	0.50	0 %
___ 46	E	Exterior	Conc. Blk - Int Ins	STAIR 2ND FL	4.1	10.0	4	15.0	0	155.0	0.149	0	0	0.50	0 %
___ 47	S	Exterior	Conc. Blk - Int Ins	STAIR 2ND FL	4.1	20.0	6	15.0	0	307.5	0.149	0	0	0.50	0 %

INPUT SUMMARY CHECKLIST REPORT

DOORS											(Total Exposed Area = 185 sq.ft.)		
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area				
___ 1	N(Front)		Wood	LIVING ROOM	None	0.60	5.00 6	10.00 0	55.0ft²				
___ 2	E(Front)		Wood	PANTRY	None	0.60	3.00 0	10.00 0	30.0ft²				
___ 3	W(Front)		Wood	MAIDS	None	0.60	3.00 0	10.00 0	30.0ft²				
___ 4	S(Front)		Wood	POOL BATH	None	0.60	3.00 0	10.00 0	30.0ft²				
___ 5	S(Front)		Wood	MASTER BATH	None	0.60	4.00 0	10.00 0	40.0ft²				

WINDOWS											(Total Exposed Area = 3569 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	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	260.0	1	26.00	10.00	3.0 0.5	Drapes/blinds	None
___ 2	S	2	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	200.0	1	20.00	10.00	3.0 0.5	Drapes/blinds	None
___ 3	N	3	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	48.3	2	2.42	10.00	5.0 0.5	Drapes/blinds	None
___ 4	N	3	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	22.0	1	11.00	2.00	5.0 0.5	Drapes/blinds	None
___ 5	S	4	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	200.0	1	20.00	10.00	3.0 0.5	Drapes/blinds	None
___ 6	E	5	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	60.0	2	3.00	10.00	0.0 0.0	Drapes/blinds	None
___ 7	S	6	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	150.0	1	15.00	10.00	18.5 0.5	Drapes/blinds	None
___ 8	W	7	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	150.0	1	15.00	10.00	3.0 0.5	Drapes/blinds	None
___ 9	E	8	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	26.9	1	16.17	1.67	0.0 0.0	Drapes/blinds	None
___ 10W		10	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	26.7	1	2.67	10.00	3.0 0.5	Drapes/blinds	None
___ 11N		11	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	26.7	1	2.67	10.00	3.0 0.5	Drapes/blinds	None
___ 12N		11	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	37.1	1	5.00	7.42	3.0 0.5	Drapes/blinds	None
___ 13E		12	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	63.0	1	8.50	7.42	3.0 0.5	Drapes/blinds	None
___ 14S		13	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	34.2	1	3.42	10.00	3.0 0.5	Drapes/blinds	None
___ 15S		14	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	34.2	1	3.42	10.00	3.0 0.5	Drapes/blinds	None
___ 16S		15	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	9.0	1	5.42	1.67	3.0 0.5	Drapes/blinds	None
___ 17W		16	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	9.0	1	5.42	1.67	5.0 0.5	Drapes/blinds	None
___ 18S		17	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	1	12.00	10.00	3.0 0.5	Drapes/blinds	None
___ 19S		18	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	1	12.00	10.00	3.0 0.5	Drapes/blinds	None
___ 20S		19	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	116.7	1	11.67	10.00	3.0 0.5	Drapes/blinds	None
___ 21N		20	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	60.0	3	2.00	10.00	3.0 0.5	Drapes/blinds	None
___ 22N		20	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	80.0	1	8.00	10.00	3.0 0.5	Drapes/blinds	None
___ 23S		23	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	34.2	1	3.42	10.00	5.0 0.5	Drapes/blinds	None
___ 24S		24	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	34.2	1	3.42	10.00	5.0 0.5	Drapes/blinds	None
___ 25S		25	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	1	12.00	10.00	5.0 0.5	Drapes/blinds	None
___ 26S		26	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	1	12.00	10.00	5.0 0.5	Drapes/blinds	None
___ 27N		29	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	60.0	3	2.00	10.00	3.0 0.5	Drapes/blinds	None
___ 28N		29	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	80.0	1	8.00	10.00	0.0 0.0	Drapes/blinds	None
___ 29W		30	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	13.2	1	2.00	6.58	0.0 0.0	Drapes/blinds	None
___ 30N		31	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	110.0	1	11.00	10.00	0.0 0.0	Drapes/blinds	None
___ 31N		31	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	96.7	1	9.67	10.00	0.0 0.0	Drapes/blinds	None
___ 32S		32	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	85.0	1	8.50	10.00	5.0 0.5	Drapes/blinds	None
___ 33S		33	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	1	12.00	10.00	5.0 0.5	Drapes/blinds	None
___ 34N		34	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	165.0	1	16.50	10.00	3.0 0.5	Drapes/blinds	None
___ 35E		35	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	13.2	1	2.00	6.58	3.0 0.5	Drapes/blinds	None
___ 36N		37	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	19.0	1	11.42	1.67	3.0 0.5	Drapes/blinds	None
___ 37E		38	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	19.0	1	11.42	1.67	3.0 0.5	Drapes/blinds	None
___ 38S		40	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	120.0	2	6.00	10.00	5.0 0.5	Drapes/blinds	None
___ 39W		41	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	200.0	1	20.00	10.00	5.0 0.5	Drapes/blinds	None
___ 40S		42	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	50.0	1	5.00	10.00	0.0 0.0	Drapes/blinds	None
___ 41W		44	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	26.7	1	2.67	10.00	3.0 0.5	Drapes/blinds	None
___ 42N		45	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	26.7	1	2.67	10.00	3.0 0.5	Drapes/blinds	None
___ 43N		45	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	75.0	1	5.00	15.00	3.0 0.5	Drapes/blinds	None
___ 44E		46	Metal	Single (Tinted)	Y	0.94	0.40	Y	Y	127.5	1	8.50	15.00	3.0 0.5	Drapes/blinds	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00023	4881	267.81	502.78	0.0986	3.0	All	97627 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	DINING ROOM
___ 2	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	LIVING ROOM
___ 3	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	FAMILY ROOM
___ 4	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	KITCHEN
___ 5	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	PANTRY
___ 6	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	POWDER
___ 7	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	STAIRS
___ 8	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BATH 113
___ 9	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BATH 116
___ 10	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BATH 124
___ 11	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BEDROOM 112
___ 12	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BEDROOM 117
___ 13	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	GYM
___ 14	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HALL
___ 15	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	LAUNDRY
___ 16	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MAIDS
___ 17	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	POOL BATH
___ 18	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BATH 210
___ 19	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BATH 216
___ 20	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BEDROOM 209
___ 21	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	BEDROOM 217
___ 22	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HALL 2ND FL
___ 23	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	NURSERY
___ 24	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	PLAY ROOM
___ 25	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HALL 2ND FL EAST
___ 26	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HALL ON MASTER
___ 27	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HER MASTER CLOSET
___ 28	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	HIS MASTER CLOSET
___ 29	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MASTER BATH
___ 30	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	MASTER BEDROOM
___ 31	Default(8 lbs/sq.ft.)	0 ft ²	0 ft	0.30	STAIR 2ND FL

HEATING SYSTEM											
✓ #	System Type	Subtype	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump----				Ducts	Block
						Entry	Power	Volt	Current		
___ 1	Electric Strip Heat	None		COP: 1.00	34.2		0.00	0.00	0.00	sys#1	1
___ 2	Electric Strip Heat	None		COP: 1.00	34.2		0.00	0.00	0.00	sys#2	2
___ 3	Electric Strip Heat	None		COP: 1.00	34.2		0.00	0.00	0.00	sys#3	3
___ 4	Electric Strip Heat	None		COP: 1.00	34.2		0.00	0.00	0.00	sys#4	4
___ 5	Electric Strip Heat	None		COP: 1.00	34.2		0.00	0.00	0.00	sys#5	5

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:22.0	45.9	1600	0.85	sys#1	1
___ 2	Central Unit	Split/Single		SEER2:22.0	45.9	1600	0.85	sys#2	2
___ 3	Central Unit	Split/Single		SEER2:22.0	45.9	1600	0.85	sys#3	3
___ 4	Central Unit	Split/Single		SEER2:22.0	45.9	1600	0.85	sys#4	4

INPUT SUMMARY CHECKLIST REPORT

COOLING SYSTEM(Continued)

___ 5 Central Unit Split/Single SEER2:20.0 57.5 2000 0.85 sys#5 5

HOT WATER SYSTEM

✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixture Flow	Pipe Ins.	Pipe length
___ 1	Propane	Tankless	Exterior	0.95 (0.95)	1.00 gal	100 gal	120 deg	Standard	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

✓ Duct #	Location	Supply-----R-Value	Area	Return-----R-Value	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM 25 OUT	QN	RLF	HVAC # Heat	Cool
___ 1	DINING ROOM	6.0	339 ft²	DINING ROOM	6.0	85 ft²	Default Leakage	DINING ROO(Default)	(Default)			1	1
___ 2	DINING ROOM	6.0	304 ft²	DINING ROOM	6.0	76 ft²	Default Leakage	DINING ROO(Default)	(Default)			2	2
___ 3	DINING ROOM	6.0	351 ft²	DINING ROOM	6.0	88 ft²	Default Leakage	DINING ROO(Default)	(Default)			3	3
___ 4	DINING ROOM	6.0	315 ft²	DINING ROOM	6.0	78 ft²	Default Leakage	DINING ROO(Default)	(Default)			4	4
___ 5	HALL 2ND FL E	6.0	311 ft²	HALL 2ND FL E	6.0	78 ft²	Default Leakage	HALL 2ND F(Default)	(Default)			5	5

TEMPERATURES

Programable Thermostat: Y				Ceiling Fans: N									
Cooling	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec	
Heating	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec	
Venting	[X] Jan	[X] Feb	[X] Mar	[X] Apr	[X] May	[X] Jun	[X] Jul	[X] Aug	[X] Sep	[X] Oct	[X] Nov	[X] Dec	
Thermostat Schedule: HERS 2006 Reference													
✓ Schedule Type		1	2	3	4	5	6	Hours 7	8	9	10	11	12
___ Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 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	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
___ Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66

Florida Building Code, Energy Conservation, 7th Edition (2020)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 6200 SW 123RD TERRACE
PINECREST, FL 33156

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.

MANDATORY REQUIREMENTS (Continued)

- ✓ **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**
- ✓ **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:
1. 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.
 2. 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 Q_n to the outside of less than 0.080 (where Q_n = 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.

MANDATORY REQUIREMENTS (Continued)

- ☒ **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.

MANDATORY REQUIREMENTS (Continued)

TABLE R403.6.1
WHOLE-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.
2. 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.

MANDATORY REQUIREMENTS (Continued)

- ☐ **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^a

Project Name: 23-0822 CASAS OHAD		Builder Name: 23-0822 CASAS OHAD	
Street: 6200 SW 123RD TERRACE		Permit Office:	
City, State, Zip: PINECREST, FL, 33156		Permit Number:	
Owner:		Jurisdiction:	
Design Location: FL, Fort Lauderdale		County: Miami-Dade(Florida Climate Zone 1)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	CHECK
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 between fire sprinkler cover plates and walls or ceilings.		

a. In addition, inspection of log walls shall be in accordance with the provisions of ICC-400.

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Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2020 and 2022 Supplement Florida Building Code, Energy Conservation, 7th Edition

Jurisdiction:	Permit #:
Job Information	
Builder: 23-0822 CASAS OHAD Community: Lot: NA	
Address: 6200 SW 123RD TERRACE	
City: PINECREST State: FL Zip: 33156	
Air Leakage Test Results <i>Passing results must meet either the Performance, Prescriptive, or ERI Method</i>	
☐ 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), section labeled as infiltration, sub-section ACH50. ACH(50) specified on Form R405-2020-Energy Calc (Performance) or R406-2020 (ERI): 3.000	
$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{97627}{\text{ACH}(50)} = \text{ACH}(50)$ PASS ☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department. Method for calculating building volume: ☐ Retrieved from architectural plans ☒ Code software calculated ☐ Field measured and calculated	
R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), <i>Florida Statutes</i>, 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 <i>code official</i>. 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, if installed at the time of the test, shall be open. 4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed. 5. Heating and cooling systems, if installed at the time of the test, shall be turned off. 6. Supply and return registers, if installed at the time of the test, shall be fully open.	
Testing Company	
Company Name: _____ Phone: _____ I hereby verify that the above Air Leakage results are in accordance with the 2020 7th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above. Signature of Tester: _____ Date of Test: _____ Printed Name of Tester: _____ License/Certification #: _____ Issuing Authority: _____	