2020 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

TABLE 402.4.1.1 AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA ^a

Project Name:

Owner:

619 SW Nebraska Terrace Bathrm Addition

Street: City, State, Zip:

619 S.W. Nebraska Terrace Fort White, FL, 32038

Design Location

619 S.W. Nebraska Terrace El Gainesville

Builder Name: 619 S.W. Nebraska Terrace

Permit Office: Columbia Permit Number:

Jurisdiction: 221000

			_
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	
General	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier.	Air-permeable insulation shall	
requirements	Breaks or joints in the air barrier shall be sealed.	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.	7
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		
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. of log walls shall be in accordance with the provisions of ICC-400.		

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

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 87

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

619 S.W. Nebraska Terrace, Fort White, FL, 32038

 New construction or existing 	New (From Plans)	Wall Type and Insulation	Insulation Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0 396,00 ft ²
3. Number of units, if multiple family	1	b. N/A c. N/A	R= ft ² R= ft ²
4. Number of Bedrooms	0	d. N/A	R= ft²
5. Is this a worst case?	No	 Ceiling Type and insulation level a. Under Attic (Vented) 	Insulation Area R=38.0 192.00 ft ²
 Conditioned floor area (ft²) 	192	b. N/A	R= ft²
7. Windows** Description a. U-Factor: Dbl, U=0.47 SHGC: SHGC=0.31	Area 18,25 ft²	c. N/A12. Ducts, location & insulation levela. Sup: Attic, Ret: Attic, AH: Attic	R= ft² R ft² 6 41
b. U-Factor: N/A	ft²		
SHGC: c. U-Factor: N/A SHGC:	ft²	 Cooling systems Central Unit 	kBtu/hr Efficiency 36.0 SEER:14.00
d. U-Factor: N/A SHGC:	ft²	14. Heating systems	kBtu/hr Efficiency
Area Weighted Average Overhang Depth: Area Weighted Average SHGC;	1,333 ft. 0.310	a. Electric Heat Pump	36.0 HSPF:8.30
8. Skylights Description	Area	15. Hot water systems	
a. U-Factor(AVG): N/A SHGC(AVG): N/A	ft²	а.	EF
9. Floor Types	Insulation Area	b. Conservation features	
a. Slab-On-Grade Edge Insulationb. N/A	R=0.0 192,00 ft ² R= ft ²	Credits (Performance method)	CF, Pstat
c. N/A	R= ft²		

I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature;

Address of New Home:

Date: 2/8/22 SW Nebroska Ter City/FL Zip: FT. White FL

*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.



Load Short Form

Entire House

ENI, LLC

Job: 619 S.W. Nebraska Terra...

Date: 02/07/2022 By: John Pirki Plan: Manual J and D

514 N.W. 39th Road, Gainesville, FL 32607 Phone: (352) 494 - 6420 cell Fax: ((352) 372 - 5182 Ofc Email: john.newage@gmail.com

Project Information

For:

ENI, LLC

514 N.W. 39th Road, Gainesville, FL 32607

Phone: (352) 494 - 6420 cell Fax: (352) 372 - 5182 Ofc

Design Information											
	Htg	Clg		Infiltration							
Outside db (°F)	33	92	Method		Simplified						
Inside db (°F)	68	75	Construction quality		Average						
Design TD (°F)	35	17	Fireplaces		0						
Daily range	520	M	•								
Inside humidity (%)	50	50									
Moisture difference (gr/lb)	29	47									

HEATING EQUIPMENT

COOLING EQUIPMENT

Make Trade Model AHRI ref	Using Existing Existing Existing			Make Trade Cond Coil AHRI ref	Using Existing Existing Existing Existing		
Efficiency		0 HSPF		Efficiency		0 SEER	
Heating inp	ut			Sensible co	ooling	0	Btuh
Heating out	put	0	Btuh @ 47°F	Latent cool	ing	0	Btuh
Temperatur	e rise	0	°F	Total coolir	ng	0	Btuh
Actual air fle	ow	212	cfm	Actual air fl	low	212	cfm
Air flow fact	tor	0.044	cfm/Btuh	Air flow fac	tor	0.081	cfm/Btuh
Static press	sure	0.51	in H2O	Static press	sure	0.51	in H2O
Space therr					ble heat ratio	0.91	

Capacity balance point = 0 °F

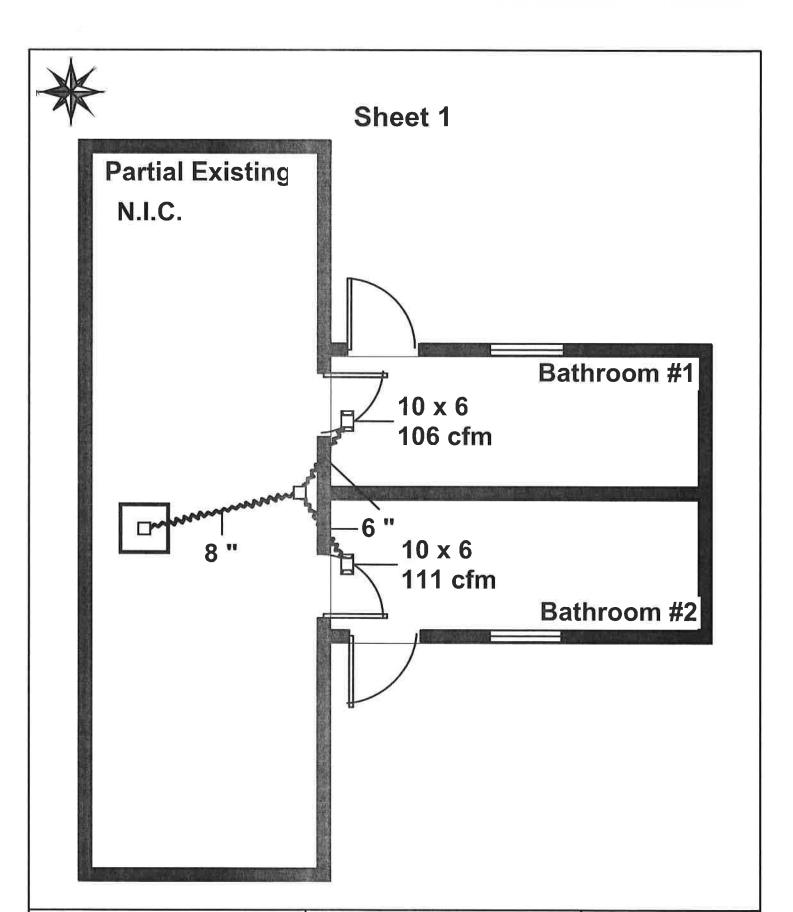
Backup:

Input = 0 kW, Output = 0 Btuh, 100 AFUE

ROOM NAME	Area	Htg load	Clg load	Htg AVF	Clg AVF
	(ft²)	(Btuh)	(Btuh)	(cfm)	(cfm)
Bathroom #1	96	2390	1258	106	101
Bathroom #2	96	2386	1373	106	111
Entire House Other equip loads Equip. @ 0.97 RSM Latent cooling	192	4777 0	2631 1707 4207 416	212	212
TOTALS	192	4777	4623	212	212

Calculations approved by ACCA to meet all requirements of Manual J 8th Ed.

2022-Feb-07 13:37:48



Job #: 619 S.W. Nebraska Terrace Performed by John Pirkl for:

ENI, LLC 514 N.W. 39th Road Gainesville, FL 32607 Phone: (352) 494 - 6420 cell Fax: (352) 372 - 51£

ENI, LLC

514 N.W. 39th Road Gainesville, FL 32607 Phone: (352) 494 - 6420 cell Fax: ((352) 372 - 518 john.newage@gmail.com Scale: 1 : 46

Page 1
Right-Suit-® Universal 2022
22.0.01 RSU02050
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...aska Terrace Bathrm Addition.



Duct System Summary

Entire House ENI, LLC

Job: 619 S.W. Nebraska Terra...

Date: 02/07/2022 By: John Pirkl Plan: Manual J and D

514 N.W. 39th Road, Gainesville, FL 32607 Phone: (352) 494 - 6420 cell Fax: ((352) 372 - 5182 Ofc Email: john.newage@gmail.com

Project Information

For:

ENI, LLC

514 N.W. 39th Road, Gainesville, FL 32607

Phone: (352) 494 - 6420 cell Fax: (352) 372 - 5182 Ofc

External static pressure
Pressure losses
Available static pressure
Supply / return available pressure
Lowest friction rate
Actual air flow
Total effective length (TEL)

 Heating
 Cooling

 0.51 in H2O
 0.51 in H2O

 0.18 in H2O
 0.18 in H2O

 0.33 in H2O
 0.33 in H2O

 0.165 / 0.165 in H2O
 0.165 / 0.165 in H2O

 0.880 in/100ft
 0.880 in/100ft

 212 cfm
 212 cfm

165 ft

Supply Branch Detail Table

Name	Design (Btuh)		Htg Clg (cfm)		Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathroom #2	c	1373	106	111	0.880		0x 0	VIFx	10.3	155.0	st1
Bathroom #1	h	2390	106	101	0.880		0x 0	VIFx	10.3	155.0	st1

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st1	Peak AVF	212	212	0.880	607	8.0	0 x 0	VinlFlx	

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: / 619 SW Nebraska Terrace Bathrm Addition Builder Name: 619 S.W. Nebraska Terrace Street: 619 S.W. Nebraska Terrace Permit Office: Columbia City, State, Zip: Fort White, FL, 32038 Permit Number: 619 S.W. Nebraska Terrace Owner: Jurisdiction: 221000 Design Location: FL, Gainesville County: Columbia (Florida Climate Zone 2) 1. New construction or existing New (From Plans) 10. Wall Type\$396.0 sqft.) Insulation Area a. Frame - Wood, Exterior R=13.0 396.00 ft² 2. Single family or multiple family Detached h N/A R= ft2 3. Number of units, if multiple family c. N/A R= ft² d. N/A 4. Number of Bedrooms 0 ft² 11. Ceiling Types (192.0 sqft.) Insulation Area 5. Is this a worst case? No a. Under Attic (Vented) R=38.0 192.00 ft² 6. Conditioned floor area above grade (ft2) 192 R= ft2 c. N/A R= ft2 Conditioned floor area below grade (ft2) 12. Ducts R ft2 7. Windows(18.3 sqft.) Description Area a. Sup: Attic, Ret: Attic, AH: Attic 41 a. U-Factor: Dbl, U=0.47 18.25 ft² SHGC: SHGC=0.31 b. U-Factor: N/A ft² 13. Cooling systems kBtu/hr Efficiency SHGC: a. Central Unit 36.0 SEER:14.00 c. U-Factor: N/A ft2 SHGC: 14. Heating systems kBtu/hr Efficiency Area Weighted Average Overhang Depth: 1.333 ft. a. Electric Heat Pump 36.0 HSPF:8.30 Area Weighted Average SHGC: 0.310 8. Skylights Area c. U-Factor:(AVG) N/A ft2 15. Hot water systems SHGC(AVG): N/A 9. Floor Types (192.0 sqft.) Insulation Area EF: 0.000 a. Slab-On-Grade Edge Insulation 192.00 ft² b. Conservation features R=0.0 b. N/A R= ft2 c. N/A R= ft² 16. Credits CF. Pstat Total Proposed Modified Loads: 9.37 **PASS** Glass/Floor Area: 0.095 Total Baseline Loads: 10.80 I hereby certify that the plans and specifications covered by Review of the plans and this calculation are in compliance with the Florida Energy specifications covered by this calculation indicates compliance Code. with the Florida Energy Code. PREPARED BY: John Pirkl Before construction is completed DATE:02/07/2022 this building will be inspected for compliance with Section 553.908 Florida Statutes. I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OD WE OWNER/AGENT **BUILDING OFFICIAL:** DATE: DATE:

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.73 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

				PRO	DJECT									
Title: Building Type: Owner Name: # of Units: Builder Name: Permit Office: Jurisdiction: Family Type: New/Existing: Comment:	619 SW Nebras User 619 S.W. Nebr 1 619 S.W. Nebr Columbia 221000 Detached New (From Plan	aska Terrace aska Terrace	Con Tota Wor Rota Cros	rooms: ditioned Area I Stories: st Case; ate Angle: ss Ventilation ble House Fal	1 No 0 No			Lot # Block/ PlatBo Street: County		ion: (o: F	Street / 619 S.V Columb Fort Wh	V. Net ia	oraska	Ter
				CLI	MATE									
Des	ign Location	TMY Sit	e		Design 97.5 %	Temp 2.5 %	Int Desig Winter			eating ee Da		esign bisture		Temp nge
FL,	Gainesville	FL_GAINESVIL	LE_REGI		32	92	70	75	1;	305.5		51	Me	edium
				BL	ocks									
Number	Name	Area	Vo	olume										
1	Entire House	192		1728										
				SP	ACES									
Number	Name	Area	Volum	e Kitchen	Осс	upants	Bedrooms	Int	fil ID	Finishe	ed	Coole	d	Heate
1	Bathroom #1	96	864	No		0		1	,	Yes		Yes		Yes
2	Bathroom #2	96	864	No		0		1	,	Yes		Yes		Yes
				FL	oors									
√ #	Floor Type	Spac		Perimeter I			Area	Joist	R-Value	€	Tile		d Ca	
1 Sla	b-On-Grade Edge	Insulatio Bath	room #1	22 ft	()	96 ft²		365		0	1	()	0
2 Sla	b-On-Grade Edge	Insulatio Bath	nroom #2	22 ft	(1	96 ft²				0	1		0
				R	OOF									
√ #	Туре	Materials			Sable Area	Roof Color		Solar Absor.	SA Tested	Emitt	Eı Tes		Deck Insul.	Pito (de
1	Gable or Shed	Composition shi	ingles 2	202 ft² 3	2 ft²	Medium	N	0.9	No	0.9	N	10	0	18.4
				A	TTIC									
√ #	Туре	Ver	ntilation	Vent	Ratio (1 i	n)	Area	RBS	IRO	cc				
1	Full attic		ented		300		192 ft²	N	٨					

INPUT SUMMARY CHECKLIST REPORT

								CEIL	ING								
$\sqrt{}$	#	Ce	eiling T	уре		Space)	R-Va	lue	Ins	Тур	ре	Area	Framir	ng Frac	Truss T	уре
	1	Un	nder At	tic (Ve	ented)	Bathroom	#1	38		Blo	wn		96 ft²	0	.1	Wood	t
=	2 Under Attic (Vented) Ba				Bathroom	#2	38		Blo	wn		96 ft²	0	.1	Wood	d	
								WA	LLS								
V #	Ornt		djacent Fo	t Wall	Type	Space)	Cavity R-Value	Wi Ft	dth In	Ft	leight In	Area	Sheathii R-Valu	ng Frami e Fracti	ng Sola	
1	Е		erior		ne - Wood	Bathroom	#1	13	16	0	9	0	144.0 ft		0.25		
2	S	Exte	erior	Fran	ne - Wood	Bathroom	#1	13	6	0	9	0	54.0 ft ²	0	0.25	0.23	3
3	S	Exte	erior	Fran	ne - Wood	Bathroom	#2	13	6	0	9	0	54.0 ft ²	0	0.25	0.23	3
_ 4	W	Exte	erior	Fran	ne - Wood	Bathroom	#2	13	16	0	9	0	144.0 ft	2 0	0.25	0.23	3
								DOC	DRS								
$\sqrt{}$	#		Ornt		Door Type	Space				Storms		U-Valu		Width t In	Hei Ft	ght In	Area
	1		E		Insulated	Bathroom #	‡ 1			Metal		.29		3	6	8	20 ft ²
	2		W		Insulated	Bathroom #	‡ 2			Metal		.29		3	6	8	20 ft ²
						Out and attended		WIND									
/			N all			Orientation she	own	is the en	iterea,	Propose	ea c	prientation		erhang			
V	#	Ornt		rame	Panes	NFRC	l	J-Factor	SHGC	lmp)	Area	Depth	Separation	n Int	Shade	Screeni
	1	Е	1 '	Vinyl	Low-E Double	e Yes		0.47	0.31	N		9.3 ft ²	1 ft 4 in	0 ft 9 in	Drape	s/blinds	Exterior
	2	W	4 '	Vinyl	Low-E Double	e Yes		0.47	0.31	N		9.0 ft ²	1 ft 4 in	0 ft 9 in	Drape	s/blinds	Exterior
								INFILTE	RATI	ON							
5	Scope		Me	ethod		SLA	CFN	M 50	ELA		EqL	_A	ACH	А	CH 50		
Who	olehous	se F	Propos	ed AC	H(50)	.000327	1	65	9.05		17	7	.1177		5.73		
							HE	EATING	SYS	TEM							
$\sqrt{}$	#	Syste	em Ty	ре		Subtype		Speed		Efficier	псу		Capacity			Block	Ducts
===	1	Elect	tric He	at Pun	np/	Split		Singl		HSPF:8	8.3	3	6 kBtu/hr			1	sys#1
							CC	OOLING	SYS	TEM							
$\sqrt{}$	#		em Ty			Subtype		Subtype		Efficiend		Capac		Air Flow	SHR	Block	Ducts
	1	Cent	ral Uni	it/		Split		Singl		SEER: 1	14	36 kBtu	u/hr 1:	200 cfm	0.7	1	sys#1
						SOLA	AR	HOT W	ATE	SYST	ΓEΝ	М					
														0-114	01		
V	FSI Cer		Compa	nv Na	me		Sve	tem Mode	el #		Coll	ector Mo	ndel#	Collector Area	Stora Volu	-	FEF

INPUT SUMMARY CHECKLIST REPORT

							DUCTS								
\checkmark	#	Supp Location R	ply -Value Area		Retu	rn Area	Leakag	е Туре	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HV. Heat	AC # Cool
	1	Attic	6 41 ft ²	А	ttic	O ft²	Default	Leakage	Attic	(Default)	(Defau	t)		1	1
						TEM	PERATUR	RES							
Programa	able Ther	mostat: Y			Cei	ling Fans	s:								
Cooling Heating Venting	[] Jan [X] Jan [] Jan	[] Feb [X] Feb [] Feb	[] Mar [X] Mar [X] Mar	[] Apr Apr [X] Apr] May] May] May	[X] Jun Jun Jun	[X] Jul Jul Jul	[X] Aug] Aug] Aug	[X] Ser [] Ser [] Ser) (x	Oct Oct Oct	[] Nov [X] Nov [X] Nov	[x]	Dec Dec Dec
Thermosta	t Schedul	e: HER\$ 200	06 Reference					Ho	urs						
Schedule 1	Туре		1	2	3	4	5	6	7	8	9	10	11		12
Cooling (W	/D)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	8	80 78
Cooling (W	/EH)	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 (V	VD)	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 (W	VEH)	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
							MASS								
Ma	ass Type			Area			Thickness	F	urniture Fra	ection	S	pace			
De	efault(8 lbs	s/sq.ft.		0 ft²			0 ft		0.3		Ва	throom	#1		
De	efault(8 lbs	s/sq.ft.		ft²			ft		0.3		Ва	throom	#2		