

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1 a

Project Name:	Touchstone 6 Plex Unit #1 Energy	Builder Name:	Touchstone Construction
Street:	218 S.W. Tigerview Glen	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32025	Permit Number:	
Owner:	SouthEastern Mechanical Solutions	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
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.	IC
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, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Touchstone 6 Plex Unit #1 Energy	Bedrooms:	2	Address type:	Street Address							
Building Type:	User	Conditioned Area:	917	Lot #:	---							
Owner:	SouthEastern Mechanical Solutions	Total Stories:	1	Block/SubDivision:	---							
Builder Home ID:		Worst Case:	No	PlatBook:	---							
Builder Name:	Touchstone Construction	Rotate Angle:	0	Street:	218 S.W. Tigerview Glen							
Permit Office:	Columbia	Cross Ventilation:	No	County:	Columbia							
Jurisdiction:	221000	Whole House Fan:	No	City, State, Zip:	Lake City, FL, 32025							
Family Type:	Detached	Terrain:	Suburban									
New/Existing:	New (From Plans)	Shielding:	Suburban									
Year Construct:	2025											
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51		Medium	
BLOCKS												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume								
	___ 1	Entire House	917	7336 cu ft								
SPACES												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
	___ 1	Ktchn/Dine Unit #1	166	1328	Yes	0		Yes	Yes	Yes		
	___ 2	Living Rm Unit #1	241	1928	No	0		Yes	Yes	Yes		
	___ 3	Bedrm #1 Unit #1	132	1056	No	1	1	Yes	Yes	Yes		
	___ 4	WIC #1 Unit #1	36	288	No	0		No	Yes	Yes		
	___ 5	Laundry Unit #1	55	440	No	0		No	Yes	Yes		
	___ 6	Bathrm Unit #1	47	376	No	0		No	Yes	Yes		
	___ 7	Mstr Bath Unit #1	43	344	No	0		No	Yes	Yes		
	___ 8	Mstr WIC Unit #1	39	312	No	0		Yes	Yes	Yes		
	___ 9	Mstr Bed Unit #1	158	1264	No	2	1	Yes	Yes	Yes		
FLOORS (Total Exposed Area = 916 sq.ft.)												
<input checked="" type="checkbox"/>	#	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	Ktchn/Dine Unit #1	27	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 2	Slab-On-Grade Edge Ins	Living Rm Unit #1	27.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 3	Slab-On-Grade Edge Ins	Bedrm #1 Unit #1	15.5	132 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 4	Slab-On-Grade Edge Ins	WIC #1 Unit #1	1	35.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 5	Slab-On-Grade Edge Ins	Laundry Unit #1	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 6	Slab-On-Grade Edge Ins	Bathrm Unit #1	1	46.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Mstr Bath Unit #1	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Mstr WIC Unit #1	5.5	38.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Mstr Bed Unit #1	22.5	157.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57

ATTIC						
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	916 ft²	N	N

CEILING (Total Exposed Area = 917 sq.ft.)								
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Ktchn/Dine Unit #1	30.0	Blown	166.0ft²	0.053	0.10	Wood
___ 2	Flat ceiling under attic(Vented)	Living Rm Unit #1	30.0	Blown	241.0ft²	0.053	0.10	Wood
___ 3	Flat ceiling under attic(Vented)	Bedrm #1 Unit #1	30.0	Blown	132.0ft²	0.053	0.10	Wood
___ 4	Flat ceiling under attic(Vented)	WIC #1 Unit #1	30.0	Blown	36.0ft²	0.053	0.10	Wood
___ 5	Flat ceiling under attic(Vented)	Laundry Unit #1	30.0	Blown	55.0ft²	0.053	0.10	Wood
___ 6	Flat ceiling under attic(Vented)	Bathrm Unit #1	30.0	Blown	47.0ft²	0.053	0.10	Wood
___ 7	Flat ceiling under attic(Vented)	Mstr Bath Unit #1	30.0	Blown	43.0ft²	0.053	0.10	Wood
___ 8	Flat ceiling under attic(Vented)	Mstr WIC Unit #1	30.0	Blown	39.0ft²	0.053	0.10	Wood
___ 9	Flat ceiling under attic(Vented)	Mstr Bed Unit #1	30.0	Blown	158.0ft²	0.053	0.10	Wood

WALLS (Total Exposed Area = 728 sq.ft.)													
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	Height Ft	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Ktchn/Dine Unit #1	13.0	7.0	6	60.0	0.095	0	0.25	0.23	0.0 %
___ 2	W	Exterior	Frame - Wood	Ktchn/Dine Unit #1	13.0	17.0	6	140.0	0.095	0	0.25	0.80	0.0 %
___ 3	S	Exterior	Frame - Wood	Living Rm Unit #1	13.0	15.0	6	124.0	0.095	0	0.25	0.80	0.0 %
___ 4	W	Exterior	Frame - Wood	Living Rm Unit #1	13.0	12.0	0	96.0	0.095	0	0.25	0.80	0.0 %
___ 5	S	Exterior	Frame - Wood	Bedrm #1 Unit #1	13.0	12.0	0	96.0	0.095	0	0.25	0.80	0.0 %
___ 6	W	Exterior	Frame - Wood	Bedrm #1 Unit #1	13.0	3.0	6	8.0	0.095	0	0.25	0.80	0.0 %
___ 7	N	Exterior	Frame - Wood	Mstr WIC Unit #1	13.0	5.0	6	8.0	0.095	0	0.25	0.80	0.0 %
___ 8	N	Exterior	Frame - Wood	Mstr Bed Unit #1	13.0	12.0	6	8.0	0.095	0	0.25	0.80	0.0 %
___ 9	E	Exterior	Frame - Wood	Mstr Bed Unit #1	13.0	5.0	0	40.0	0.095	0	0.25	0.80	0.0 %

DOORS (Total Exposed Area = 38 sq.ft.)											
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	Height Ft	Area		
___ 1	N	Exterior	Insulated	Ktchn/Dine Unit #1	Metal	0.29	2.00	8	17.8ft²		
___ 2	S	Exterior	Insulated	Living Rm Unit #1	Metal	0.29	3.00	0	20.0ft²		

WINDOWS (Total Exposed Area = 68 sq.ft.)																
✓ #	Ornt	Wall ID	Frame	Panes	NFRC U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.45	0.36	N	6.0	1	2.00	3.00	5.0	0.8	None	None
___ 2	W	2	Vinyl	Low-E Double	Y	0.47	0.31	N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	3	Vinyl	Low-E Double	Y	0.47	0.31	N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	3	Vinyl	Low-E Double	Y	0.45	0.36	N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	S	5	Vinyl	Low-E Double	Y	0.47	0.31	N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%

INPUT SUMMARY CHECKLIST REPORT

WINDOWS(Continued)

6 N 8 Vinyl Low-E Double Y 0.47 0.31 N N 15.0 1 3.00 5.00 1.5 0.8 Drapes/blinds Ex. 50%

INFILTRATION

<input checked="" type="checkbox"/> #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
<input type="checkbox"/> 1	Wholehouse	Proposed ACH(50)	0.00026	614	33.67	63.22	0.0984	5.0	All	7336 cu ft

MASS

<input checked="" type="checkbox"/> #	Mass Type	Area	Thickness	Furniture Fraction	Space
<input type="checkbox"/> 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine Unt #1
<input type="checkbox"/> 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm Unit #1
<input type="checkbox"/> 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1 Unit #1
<input type="checkbox"/> 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1 Unit #1
<input type="checkbox"/> 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry Unit #1
<input type="checkbox"/> 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm Unit #1
<input type="checkbox"/> 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath Unit #1
<input type="checkbox"/> 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC Unit #1
<input type="checkbox"/> 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed Unit #1

HEATING SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump----			Ducts	Block
						Entry	Power	Volt	Current	
<input type="checkbox"/> 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	22.4		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
<input type="checkbox"/> 1	Central Unit	Split/Single		SEER2:14.5	22.4	800	0.70	sys#1	1

HOT WATER SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
<input type="checkbox"/> 1	Electric	None	Ktchn/Dine Unt #1	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71
	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits	
<input type="checkbox"/> 1	No		NA	NA	NA	No	NA	NA	NA	None	

DUCTS

<input checked="" type="checkbox"/> #	Duct Location	Supply-----R-Value Area	-----Return-----R-Value Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
<input type="checkbox"/> 1	Attic	6.0 105 ft²	Living Rm Uni 6.0 36 ft²	Default Leakage	Laundry Un	(Default)	(Default)			1 1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programable Thermostat: Y				Ceiling Fans: N										
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec		
<input checked="" type="checkbox"/> Thermostat Schedule: HERS 2006 Reference														
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

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Project Name:	Touchstone 6 Plex Unit #2 Energy	Builder Name:	Touchstone Construction
Street:	218 S.W. Tigerview Glen	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32025	Permit Number:	
Owner:	Touchstone Construction	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

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Owner:	Touchstone Construction	Conditioned Area:	917		Block/SubDivision:	---						
Builder Home ID:		Total Stories:	1		PlatBook:	---						
Builder Name:	Touchstone Construction	Worst Case:	No		Street:	218 S.W. Tigerview Glen						
Permit Office:	Columbia	Rotate Angle:	0		County:	Columbia						
Jurisdiction:	221000	Cross Ventilation:	No		City, State, Zip:	Lake City, FL, 32025						
Family Type:	Detached	Whole House Fan:	No									
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:	2025	Shielding:	Suburban									
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
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	___ 7	Laundry	55	440	No	0		No	Yes	Yes		
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	___ 6	Slab-On-Grade Edge Ins	Mstr Bath	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Laundry	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Living Rm	15.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Ktchn/Dine	13	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF															
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57		
ATTIC															
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC									
___ 1	Full attic	Vented	150	916 ft²	N	N									
CEILING (Total Exposed Area = 917 sq.ft.)															
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	Mstr WIC	30.0	Blown	39.0ft²	0.053	0.10	Wood							
___ 2	Flat ceiling under attic(Vented)	Bathrm	30.0	Blown	47.0ft²	0.053	0.10	Wood							
___ 3	Flat ceiling under attic(Vented)	WIC #1	30.0	Blown	36.0ft²	0.053	0.10	Wood							
___ 4	Flat ceiling under attic(Vented)	Bedrm #1	30.0	Blown	132.0ft²	0.053	0.10	Wood							
___ 5	Flat ceiling under attic(Vented)	Mstr Bed	30.0	Blown	158.0ft²	0.053	0.10	Wood							
___ 6	Flat ceiling under attic(Vented)	Mstr Bath	30.0	Blown	43.0ft²	0.053	0.10	Wood							
___ 7	Flat ceiling under attic(Vented)	Laundry	30.0	Blown	55.0ft²	0.053	0.10	Wood							
___ 8	Flat ceiling under attic(Vented)	Living Rm	30.0	Blown	241.0ft²	0.053	0.10	Wood							
___ 9	Flat ceiling under attic(Vented)	Ktchn/Dine	30.0	Blown	166.0ft²	0.053	0.10	Wood							
WALLS (Total Exposed Area = 520 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Mstr WIC	13.0	5.0 6	8.0 0	44.0	0.095	0	0.25	0.23	0.0 %		
___ 2	E	Exterior	Frame - Wood	Bedrm #1	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
___ 3	S	Exterior	Frame - Wood	Bedrm #1	13.0	12.0 0	8.0 0	96.0	0.095	0	0.25	0.23	0.0 %		
___ 4	N	Exterior	Frame - Wood	Mstr Bed	13.0	12.0 6	8.0 0	100.0	0.095	0	0.25	0.23	0.0 %		
___ 5	W	Exterior	Frame - Wood	Mstr Bed	13.0	5.0 0	8.0 0	40.0	0.095	0	0.25	0.23	0.0 %		
___ 6	S	Exterior	Frame - Wood	Living Rm	13.0	15.0 6	8.0 0	124.0	0.095	0	0.25	0.23	0.0 %		
___ 7	N	Exterior	Frame - Wood	Ktchn/Dine	13.0	7.0 6	8.0 0	60.0	0.095	0	0.25	0.23	0.0 %		
___ 8	E	Exterior	Frame - Wood	Ktchn/Dine	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
DOORS (Total Exposed Area = 38 sq.ft.)															
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
___ 1	S	Exterior	Insulated	Living Rm	Metal	0.29	3.00 0	6.00 8	20.0ft²						
___ 2	N	Exterior	Insulated	Ktchn/Dine	Metal	0.29	2.00 8	6.00 8	17.8ft²						
WINDOWS (Total Exposed Area = 53 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	S	3	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 2	N	4	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	6	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	6	Vinyl	Low-E Double	Y 0.45	0.36	N N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	N	7	Vinyl	Low-E Double	Y 0.45	0.36	N N	6.0	1	2.00	3.00	5.0	0.8	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00026	627	34.41	64.60	0.1005	5.1	All	7336 cu ft

MASS						
√ #	Mass Type	Area	Thickness	Furniture Fraction	Space	
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC	
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm	
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1	
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1	
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed	
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath	
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry	
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm	
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine	

HEATING SYSTEM										
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	17.0		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM										
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block	
___ 1	Central Unit	Split/Single		SEER2:14.3	17.0	600	0.70	sys#1	1	

HOT WATER SYSTEM											
√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Ktchn/Dine	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71
	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	-----Supply-----			-----Return-----			AHU	CFM 25	QN	AHU	HVAC #	
		Location	R-Value	Area	Location	R-Value	Area	Leakage Type	Location	TOT OUT	OUT SEALED	RLF	Heat Cool
___ 1	Attic	6.0	97 ft²	Living Rm	6.0	36 ft²	Default Leakage	Laundry	(Default)	(Default)			1 1

TEMPERATURES												
Programable Thermostat: Y						Ceiling Fans: N						
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

✓ Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 91

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

218 S.W. Tigerview Glen,Lake City,FL,32025

<p>1. New construction or existing New (From Plans)</p> <p>2. Single family or multiple family Detached</p> <p>3. Number of units, if multiple family 1</p> <p>4. Number of Bedrooms 2</p> <p>5. Is this a worst case? No</p> <p>6. Conditioned floor area above grade (ft²) 917</p> <p style="padding-left: 20px;">Conditioned floor area below grade (ft²) 0</p> <p>7. Windows** Description Area</p> <p style="padding-left: 20px;">a. U-Factor: Dbl, U=0.47 45.00 ft²</p> <p style="padding-left: 40px;">SHGC: SHGC=0.31</p> <p style="padding-left: 20px;">b. U-Factor: Dbl, U=0.45 8.33 ft²</p> <p style="padding-left: 40px;">SHGC: SHGC=0.36</p> <p style="padding-left: 20px;">c. U-Factor: N/A ft²</p> <p style="padding-left: 40px;">SHGC:</p> <p style="padding-left: 20px;">Area Weighted Average Overhang Depth: 2.544 ft</p> <p style="padding-left: 20px;">Area Weighted Average SHGC: 0.318</p> <p>8. Skylights Description Area</p> <p style="padding-left: 20px;">U-Factor:(AVG) N/A N/A ft²</p> <p style="padding-left: 20px;">SHGC(AVG): N/A</p> <p>9. Floor Types Insulation Area</p> <p style="padding-left: 20px;">a. Slab-On-Grade Edge Insulation R= 0.0 916.00 ft²</p> <p style="padding-left: 20px;">b. N/A R= ft²</p> <p style="padding-left: 20px;">c. N/A R= ft²</p>	<p>10. Wall Types(520.0 sqft.) Insulation Area</p> <p style="padding-left: 20px;">a. Frame - Wood, Exterior R=13.0 520.00 ft²</p> <p style="padding-left: 20px;">b. N/A</p> <p style="padding-left: 20px;">c. N/A</p> <p style="padding-left: 20px;">d. N/A</p> <p>11. Ceiling Types(917.0 sqft.) Insulation Area</p> <p style="padding-left: 20px;">a. Flat ceiling under att (Vented) R=30.0 917.00 ft²</p> <p style="padding-left: 20px;">b. N/A</p> <p style="padding-left: 20px;">c. N/A</p> <p>12. Roof(Comp. Shingles, Vented) Deck R=0.0 1024 ft²</p> <p>13. Ducts, location & insulation level R ft²</p> <p style="padding-left: 20px;">a. Sup: Attic, Ret: Living Rm, AH: Laundry 6 97</p> <p style="padding-left: 20px;">b.</p> <p style="padding-left: 20px;">c.</p> <p>14. Cooling Systems kBtu/hr Efficiency</p> <p style="padding-left: 20px;">a. Central Unit 17.0 SEER2:14.30</p> <p>15. Heating Systems kBtu/hr Efficiency</p> <p style="padding-left: 20px;">a. Electric Heat Pump 17.0 HSPF2:7.50</p> <p>16. Hot Water Systems</p> <p style="padding-left: 20px;">a. Electric Cap: 30 gallons</p> <p style="padding-left: 40px;">EF: 0.945</p> <p style="padding-left: 20px;">b. Conservation features None</p> <p>17. Credits CF, Pstat</p>
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I certify that this home has complied with the Florida Energy Efficiency Code for Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: 218 S.W. Tigerview Glen City/FL Zip: Lake City,FL,32025



*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.

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1 a

Project Name: Touchstone 6 Plex Unit #3 Energy		Builder Name: Touchstone Construction	
Street: 218 S.W. Tigerview Glen		Permit Office: Columbia	
City, State, Zip: Lake City, FL, 32025		Permit Number:	
Owner: Touchstone Construction		Jurisdiction: 221000	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
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.	IC
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, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Touchstone 6 Plex Unit #3 Energy				Address type:	Street Address						
Building Type:	User	Bedrooms:	2		Lot #:	---						
Owner:	Touchstone Construction	Conditioned Area:	917		Block/SubDivision:	---						
Builder Home ID:		Total Stories:	1		PlatBook:	---						
Builder Name:	Touchstone Construction	Worst Case:	No		Street:	218 S.W. Tigerview Glen						
Permit Office:	Columbia	Rotate Angle:	0		County:	Columbia						
Jurisdiction:	221000	Cross Ventilation:	No		City, State, Zip:	Lake City, FL, 32025						
Family Type:	Detached	Whole House Fan:	No									
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:	2025	Shielding:	Suburban									
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51	Medium		
BLOCKS												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume								
	___ 1	Entire House	917	7336 cu ft								
SPACES												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
	___ 1	Mstr WIC	39	312	No	0		Yes	Yes	Yes		
	___ 2	Bathrm	47	376	No	0		No	Yes	Yes		
	___ 3	WIC #1	36	288	No	0		No	Yes	Yes		
	___ 4	Bedrm #1	132	1056	No	1	1	Yes	Yes	Yes		
	___ 5	Mstr Bed	158	1264	No	2	1	Yes	Yes	Yes		
	___ 6	Mstr Bath	43	344	No	0		No	Yes	Yes		
	___ 7	Laundry	55	440	No	0		No	Yes	Yes		
	___ 8	Living Rm	241	1928	No	0		Yes	Yes	Yes		
	___ 9	Ktchn/Dine	166	1328	Yes	0		Yes	Yes	Yes		
FLOORS (Total Exposed Area = 916 sq.ft.)												
<input checked="" type="checkbox"/>	#	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	Mstr WIC	5.5	38.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 2	Slab-On-Grade Edge Ins	Bathrm	1	46.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 3	Slab-On-Grade Edge Ins	WIC #1	1	35.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 4	Slab-On-Grade Edge Ins	Bedrm #1	15.5	132 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 5	Slab-On-Grade Edge Ins	Mstr Bed	22.5	157.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 6	Slab-On-Grade Edge Ins	Mstr Bath	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Laundry	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Living Rm	15.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Ktchn/Dine	13	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF															
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57		
ATTIC															
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC									
___ 1	Full attic	Vented	150	916 ft²	N	N									
CEILING (Total Exposed Area = 917 sq.ft.)															
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	Mstr WIC	30.0	Blown	39.0ft²	0.053	0.10	Wood							
___ 2	Flat ceiling under attic(Vented)	Bathrm	30.0	Blown	47.0ft²	0.053	0.10	Wood							
___ 3	Flat ceiling under attic(Vented)	WIC #1	30.0	Blown	36.0ft²	0.053	0.10	Wood							
___ 4	Flat ceiling under attic(Vented)	Bedrm #1	30.0	Blown	132.0ft²	0.053	0.10	Wood							
___ 5	Flat ceiling under attic(Vented)	Mstr Bed	30.0	Blown	158.0ft²	0.053	0.10	Wood							
___ 6	Flat ceiling under attic(Vented)	Mstr Bath	30.0	Blown	43.0ft²	0.053	0.10	Wood							
___ 7	Flat ceiling under attic(Vented)	Laundry	30.0	Blown	55.0ft²	0.053	0.10	Wood							
___ 8	Flat ceiling under attic(Vented)	Living Rm	30.0	Blown	241.0ft²	0.053	0.10	Wood							
___ 9	Flat ceiling under attic(Vented)	Ktchn/Dine	30.0	Blown	166.0ft²	0.053	0.10	Wood							
WALLS (Total Exposed Area = 520 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Mstr WIC	13.0	5.0 6	8.0 0	44.0	0.095	0	0.25	0.23	0.0 %		
___ 2	E	Exterior	Frame - Wood	Bedrm #1	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
___ 3	S	Exterior	Frame - Wood	Bedrm #1	13.0	12.0 0	8.0 0	96.0	0.095	0	0.25	0.23	0.0 %		
___ 4	N	Exterior	Frame - Wood	Mstr Bed	13.0	12.0 6	8.0 0	100.0	0.095	0	0.25	0.23	0.0 %		
___ 5	W	Exterior	Frame - Wood	Mstr Bed	13.0	5.0 0	8.0 0	40.0	0.095	0	0.25	0.23	0.0 %		
___ 6	S	Exterior	Frame - Wood	Living Rm	13.0	15.0 6	8.0 0	124.0	0.095	0	0.25	0.23	0.0 %		
___ 7	N	Exterior	Frame - Wood	Ktchn/Dine	13.0	7.0 6	8.0 0	60.0	0.095	0	0.25	0.23	0.0 %		
___ 8	E	Exterior	Frame - Wood	Ktchn/Dine	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
DOORS (Total Exposed Area = 38 sq.ft.)															
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
___ 1	S	Exterior	Insulated	Living Rm	Metal	0.29	3.00 0	6.00 8	20.0ft²						
___ 2	N	Exterior	Insulated	Ktchn/Dine	Metal	0.29	2.00 8	6.00 8	17.8ft²						
WINDOWS (Total Exposed Area = 53 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	S	3	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 2	N	4	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	6	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	6	Vinyl	Low-E Double	Y 0.45	0.36	N N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	N	7	Vinyl	Low-E Double	Y 0.45	0.36	N N	6.0	1	2.00	3.00	5.0	0.8	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
✓ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00026	627	34.41	64.60	0.1005	5.1	All	7336 cu ft

MASS					
✓ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine

HEATING SYSTEM										
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	17.0		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM									
✓ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:14.3	17.0	600	0.70	sys#1	1

HOT WATER SYSTEM											
✓ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Ktchn/Dine	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71
	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----- Location R-Value Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT SEALED	AHU RLF	HVAC # Heat Cool		
___ 1	Attic	6.0 97 ft²	Living Rm 6.0 36 ft²	Default Leakage	Laundry	(Default) (Default)			1 1		

TEMPERATURES												
Programable Thermostat: Y						Ceiling Fans: N						
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

✓ Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1 a

Project Name:	Touchstone 6 Plex Unit #4 Energy	Builder Name:	Touchstone Construction
Street:	218 S.W. Tigerview Glen	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32025	Permit Number:	
Owner:	Touchstone Construction	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
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.	IC
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, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
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.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Touchstone 6 Plex Unit #4 Energy	Builder Name: Touchstone Construction
Street: 218 S.W. Tigerview Glen	Permit Office: Columbia
City, State, Zip: Lake City, FL, 32025	Permit Number:
Owner: Touchstone Construction	Jurisdiction: 221000
Design Location: FL, Gainesville	County: Columbia(Florida Climate Zone 2)

1. New construction or existing	New (From Plans)	10. Wall Types(520.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	520.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	2	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	917	11. Ceiling Types(917.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	917.00 ft ²
7. Windows(53.3 sqft.)	Description	Area		
a. U-Factor:	Dbl, U=0.47	45.00 ft ²		
SHGC:	SHGC=0.31			
b. U-Factor:	Dbl, U=0.45	8.33 ft ²		
SHGC:	SHGC=0.36			
c. U-Factor:	N/A	ft ²		
SHGC:				
Area Weighted Average Overhang Depth:	2.544 ft			
Area Weighted Average SHGC:	0.318			
8. Skylights	Description	Area		
U-Factor:(AVG)	N/A	N/A ft ²		
SHGC(AVG):	N/A			
9. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R= 0.0	916.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
			12. Roof(Comp. Shingles, Vented) Deck	R=0.0 1024 ft ²
			13. Ducts, location & insulation level	R ft ²
			a. Sup: Attic, Ret: Living Rm, AH: Laundry	6 97
			b.	
			c.	
			14. Cooling Systems	kBtu/hr Efficiency
			a. Central Unit	17.0 SEER2:14.30
			15. Heating Systems	kBtu/hr Efficiency
			a. Electric Heat Pump	17.0 HSPF2:7.50
			16. Hot Water Systems	
			a. Electric	Cap: 30 gallons
				EF: 0.945
			b. Conservation features	
				None
			17. Credits	CF, Pstat

Glass/Floor Area:0.058

Total Proposed Modified Loads: 21.60

Total Baseline Loads: 23.66

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: _____

DATE: 12/24/2025

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.



BUILDING OFFICIAL: _____

DATE: _____

- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- 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 5.13 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Touchstone 6 Plex Unit #4 Energy				Address type:	Street Address						
Building Type:	User	Bedrooms:	2		Lot #:	---						
Owner:	Touchstone Construction	Conditioned Area:	917		Block/SubDivision:	---						
Builder Home ID:		Total Stories:	1		PlatBook:	---						
Builder Name:	Touchstone Construction	Worst Case:	No		Street:	218 S.W. Tigerview Glen						
Permit Office:	Columbia	Rotate Angle:	0		County:	Columbia						
Jurisdiction:	221000	Cross Ventilation:	No		City, State, Zip:	Lake City, FL, 32025						
Family Type:	Detached	Whole House Fan:	No									
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:	2025	Shielding:	Suburban									
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51	Medium		
BLOCKS												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume								
	___ 1	Entire House	917	7336 cu ft								
SPACES												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
	___ 1	Mstr WIC	39	312	No	0		Yes	Yes	Yes		
	___ 2	Bathrm	47	376	No	0		No	Yes	Yes		
	___ 3	WIC #1	36	288	No	0		No	Yes	Yes		
	___ 4	Bedrm #1	132	1056	No	1	1	Yes	Yes	Yes		
	___ 5	Mstr Bed	158	1264	No	2	1	Yes	Yes	Yes		
	___ 6	Mstr Bath	43	344	No	0		No	Yes	Yes		
	___ 7	Laundry	55	440	No	0		No	Yes	Yes		
	___ 8	Living Rm	241	1928	No	0		Yes	Yes	Yes		
	___ 9	Ktchn/Dine	166	1328	Yes	0		Yes	Yes	Yes		
FLOORS (Total Exposed Area = 916 sq.ft.)												
<input checked="" type="checkbox"/>	#	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	Mstr WIC	5.5	38.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 2	Slab-On-Grade Edge Ins	Bathrm	1	46.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 3	Slab-On-Grade Edge Ins	WIC #1	1	35.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 4	Slab-On-Grade Edge Ins	Bedrm #1	15.5	132 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 5	Slab-On-Grade Edge Ins	Mstr Bed	22.5	157.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 6	Slab-On-Grade Edge Ins	Mstr Bath	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Laundry	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Living Rm	15.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Ktchn/Dine	13	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF															
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57		
ATTIC															
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC									
___ 1	Full attic	Vented	150	916 ft²	N	N									
CEILING (Total Exposed Area = 917 sq.ft.)															
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	Mstr WIC	30.0	Blown	39.0ft²	0.053	0.10	Wood							
___ 2	Flat ceiling under attic(Vented)	Bathrm	30.0	Blown	47.0ft²	0.053	0.10	Wood							
___ 3	Flat ceiling under attic(Vented)	WIC #1	30.0	Blown	36.0ft²	0.053	0.10	Wood							
___ 4	Flat ceiling under attic(Vented)	Bedrm #1	30.0	Blown	132.0ft²	0.053	0.10	Wood							
___ 5	Flat ceiling under attic(Vented)	Mstr Bed	30.0	Blown	158.0ft²	0.053	0.10	Wood							
___ 6	Flat ceiling under attic(Vented)	Mstr Bath	30.0	Blown	43.0ft²	0.053	0.10	Wood							
___ 7	Flat ceiling under attic(Vented)	Laundry	30.0	Blown	55.0ft²	0.053	0.10	Wood							
___ 8	Flat ceiling under attic(Vented)	Living Rm	30.0	Blown	241.0ft²	0.053	0.10	Wood							
___ 9	Flat ceiling under attic(Vented)	Ktchn/Dine	30.0	Blown	166.0ft²	0.053	0.10	Wood							
WALLS (Total Exposed Area = 520 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Mstr WIC	13.0	5.0 6	8.0 0	44.0	0.095	0	0.25	0.23	0.0 %		
___ 2	E	Exterior	Frame - Wood	Bedrm #1	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
___ 3	S	Exterior	Frame - Wood	Bedrm #1	13.0	12.0 0	8.0 0	96.0	0.095	0	0.25	0.23	0.0 %		
___ 4	N	Exterior	Frame - Wood	Mstr Bed	13.0	12.0 6	8.0 0	100.0	0.095	0	0.25	0.23	0.0 %		
___ 5	W	Exterior	Frame - Wood	Mstr Bed	13.0	5.0 0	8.0 0	40.0	0.095	0	0.25	0.23	0.0 %		
___ 6	S	Exterior	Frame - Wood	Living Rm	13.0	15.0 6	8.0 0	124.0	0.095	0	0.25	0.23	0.0 %		
___ 7	N	Exterior	Frame - Wood	Ktchn/Dine	13.0	7.0 6	8.0 0	60.0	0.095	0	0.25	0.23	0.0 %		
___ 8	E	Exterior	Frame - Wood	Ktchn/Dine	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
DOORS (Total Exposed Area = 38 sq.ft.)															
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
___ 1	S	Exterior	Insulated	Living Rm	Metal	0.29	3.00 0	6.00 8	20.0ft²						
___ 2	N	Exterior	Insulated	Ktchn/Dine	Metal	0.29	2.00 8	6.00 8	17.8ft²						
WINDOWS (Total Exposed Area = 53 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	S	3	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 2	N	4	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	6	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	6	Vinyl	Low-E Double	Y 0.45	0.36	N N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	N	7	Vinyl	Low-E Double	Y 0.45	0.36	N N	6.0	1	2.00	3.00	5.0	0.8	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00026	627	34.41	64.60	0.1005	5.1	All	7336 cu ft

MASS						
√ #	Mass Type	Area	Thickness	Furniture Fraction	Space	
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC	
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm	
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1	
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1	
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed	
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath	
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry	
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm	
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine	

HEATING SYSTEM										
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	17.0		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM										
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block	
___ 1	Central Unit	Split/Single		SEER2:14.3	17.0	600	0.70	sys#1	1	

HOT WATER SYSTEM											
√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Ktchn/Dine	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71
	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	-----Supply-----		-----Return-----			AHU	CFM 25	QN	AHU	HVAC #			
		Location	R-Value	Area	Location	R-Value	Area	Leakage Type	Location	TOT OUT	OUT SEALED	RLF	Heat	Cool
___ 1	Attic	6.0	97 ft²	Living Rm	6.0	36 ft²	Default Leakage	Laundry	(Default)	(Default)			1	1

TEMPERATURES												
Programable Thermostat: Y						Ceiling Fans: N						
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

✓ Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1 a

Project Name:	Touchstone 6 Plex Unit #5 Energy	Builder Name:	Touchstone Construction
Street:	218 S.W. Tigerview Glen	Permit Office:	Columbia
City, State, Zip:	Lake City, FL, 32025	Permit Number:	
Owner:	Touchstone Construction	Jurisdiction:	221000
Design Location:	FL, Gainesville	County:	Columbia(Florida Climate Zone 2)

COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
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.	IC
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, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
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.

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Touchstone 6 Plex Unit #5 Energy				Address type:	Street Address						
Building Type:	User	Bedrooms:	2		Lot #:	---						
Owner:	Touchstone Construction	Conditioned Area:	917		Block/SubDivision:	---						
Builder Home ID:		Total Stories:	1		PlatBook:	---						
Builder Name:	Touchstone Construction	Worst Case:	No		Street:	218 S.W. Tigerview Glen						
Permit Office:	Columbia	Rotate Angle:	0		County:	Columbia						
Jurisdiction:	221000	Cross Ventilation:	No		City, State, Zip:	Lake City, FL, 32025						
Family Type:	Detached	Whole House Fan:	No									
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:	2025	Shielding:	Suburban									
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51	Medium		
BLOCKS												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume								
	___ 1	Entire House	917	7336 cu ft								
SPACES												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
	___ 1	Mstr WIC	39	312	No	0		Yes	Yes	Yes		
	___ 2	Bathrm	47	376	No	0		No	Yes	Yes		
	___ 3	WIC #1	36	288	No	0		No	Yes	Yes		
	___ 4	Bedrm #1	132	1056	No	1	1	Yes	Yes	Yes		
	___ 5	Mstr Bed	158	1264	No	2	1	Yes	Yes	Yes		
	___ 6	Mstr Bath	43	344	No	0		No	Yes	Yes		
	___ 7	Laundry	55	440	No	0		No	Yes	Yes		
	___ 8	Living Rm	241	1928	No	0		Yes	Yes	Yes		
	___ 9	Ktchn/Dine	166	1328	Yes	0		Yes	Yes	Yes		
FLOORS (Total Exposed Area = 916 sq.ft.)												
<input checked="" type="checkbox"/>	#	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	Mstr WIC	5.5	38.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 2	Slab-On-Grade Edge Ins	Bathrm	1	46.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 3	Slab-On-Grade Edge Ins	WIC #1	1	35.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 4	Slab-On-Grade Edge Ins	Bedrm #1	15.5	132 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 5	Slab-On-Grade Edge Ins	Mstr Bed	22.5	157.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 6	Slab-On-Grade Edge Ins	Mstr Bath	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Laundry	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Living Rm	15.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Ktchn/Dine	13	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF															
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)		
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57		
ATTIC															
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC									
___ 1	Full attic	Vented	150	916 ft²	N	N									
CEILING (Total Exposed Area = 917 sq.ft.)															
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type							
___ 1	Flat ceiling under attic(Vented)	Mstr WIC	30.0	Blown	39.0ft²	0.053	0.10	Wood							
___ 2	Flat ceiling under attic(Vented)	Bathrm	30.0	Blown	47.0ft²	0.053	0.10	Wood							
___ 3	Flat ceiling under attic(Vented)	WIC #1	30.0	Blown	36.0ft²	0.053	0.10	Wood							
___ 4	Flat ceiling under attic(Vented)	Bedrm #1	30.0	Blown	132.0ft²	0.053	0.10	Wood							
___ 5	Flat ceiling under attic(Vented)	Mstr Bed	30.0	Blown	158.0ft²	0.053	0.10	Wood							
___ 6	Flat ceiling under attic(Vented)	Mstr Bath	30.0	Blown	43.0ft²	0.053	0.10	Wood							
___ 7	Flat ceiling under attic(Vented)	Laundry	30.0	Blown	55.0ft²	0.053	0.10	Wood							
___ 8	Flat ceiling under attic(Vented)	Living Rm	30.0	Blown	241.0ft²	0.053	0.10	Wood							
___ 9	Flat ceiling under attic(Vented)	Ktchn/Dine	30.0	Blown	166.0ft²	0.053	0.10	Wood							
WALLS (Total Exposed Area = 520 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft In	Height Ft In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade		
___ 1	N	Exterior	Frame - Wood	Mstr WIC	13.0	5.0 6	8.0 0	44.0	0.095	0	0.25	0.23	0.0 %		
___ 2	E	Exterior	Frame - Wood	Bedrm #1	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
___ 3	S	Exterior	Frame - Wood	Bedrm #1	13.0	12.0 0	8.0 0	96.0	0.095	0	0.25	0.23	0.0 %		
___ 4	N	Exterior	Frame - Wood	Mstr Bed	13.0	12.0 6	8.0 0	100.0	0.095	0	0.25	0.23	0.0 %		
___ 5	W	Exterior	Frame - Wood	Mstr Bed	13.0	5.0 0	8.0 0	40.0	0.095	0	0.25	0.23	0.0 %		
___ 6	S	Exterior	Frame - Wood	Living Rm	13.0	15.0 6	8.0 0	124.0	0.095	0	0.25	0.23	0.0 %		
___ 7	N	Exterior	Frame - Wood	Ktchn/Dine	13.0	7.0 6	8.0 0	60.0	0.095	0	0.25	0.23	0.0 %		
___ 8	E	Exterior	Frame - Wood	Ktchn/Dine	13.0	3.0 6	8.0 0	28.0	0.095	0	0.25	0.23	0.0 %		
DOORS (Total Exposed Area = 38 sq.ft.)															
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft In	Height Ft In	Area						
___ 1	S	Exterior	Insulated	Living Rm	Metal	0.29	3.00 0	6.00 8	20.0ft²						
___ 2	N	Exterior	Insulated	Ktchn/Dine	Metal	0.29	2.00 8	6.00 8	17.8ft²						
WINDOWS (Total Exposed Area = 53 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	S	3	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 2	N	4	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	6	Vinyl	Low-E Double	Y 0.47	0.31	N N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	6	Vinyl	Low-E Double	Y 0.45	0.36	N N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	N	7	Vinyl	Low-E Double	Y 0.45	0.36	N N	6.0	1	2.00	3.00	5.0	0.8	None	None

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION										
√ #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
___ 1	Wholehouse	Proposed ACH(50)	0.00026	627	34.41	64.60	0.1005	5.1	All	7336 cu ft

MASS					
√ #	Mass Type	Area	Thickness	Furniture Fraction	Space
___ 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC
___ 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm
___ 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1
___ 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1
___ 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed
___ 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath
___ 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry
___ 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm
___ 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine

HEATING SYSTEM										
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	---Geothermal HeatPump---			Ducts	Block
						Entry	Power	Volt	Current	
___ 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	17.0		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM									
√ #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
___ 1	Central Unit	Split/Single		SEER2:14.3	17.0	600	0.70	sys#1	1

HOT WATER SYSTEM											
√ #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
___ 1	Electric	None	Ktchn/Dine	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71
	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	-----Supply-----		-----Return-----			AHU	CFM 25	QN	AHU	HVAC #			
		Location	R-Value	Area	Location	R-Value	Area	Leakage Type	Location	TOT OUT	OUT SEALED	RLF	Heat	Cool
___ 1	Attic	6.0	97 ft²	Living Rm	6.0	36 ft²	Default Leakage	Laundry	(Default)	(Default)			1	1

TEMPERATURES												
Programable Thermostat: Y						Ceiling Fans: N						
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES(Continued)

✓ Thermostat Schedule: HERS 2006 Reference Schedule Type		Hours												
		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

2023 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA-TABLE 402.4.1.1 a

Project Name: Touchstone 6 Plex Unit #6 Energy		Builder Name: Touchstone Construction	
Street: 218 S.W. Tigerview Glen		Permit Office: Columbia	
City, State, Zip: Lake City, FL, 32025		Permit Number:	
Owner: Touchstone Construction		Jurisdiction: 221000	
Design Location: FL, Gainesville		County: Columbia(Florida Climate Zone 2)	
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA	ICC
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.	IC
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, communication, and other equipment boxes, housings, and enclosures	Boxes, housings, and enclosures that penetrate the air barrier shall be caulked, taped, gasketed, or otherwise sealed to the air barrier element being penetrated. All concealed openings into the box, housing, or enclosure shall be sealed. The continuity of the air barrier shall be maintained around boxes, housings, and enclosures that penetrate the air barrier. Alternatively, air-sealed boxes shall be installed in accordance with R402.4.6	Boxes, housings, and enclosures shall be buried in or surrounded by tightly fitted insulation.	
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.

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: Touchstone 6 Plex Unit #6 Energy	Builder Name: Touchstone Construction
Street: 218 S.W. Tigerview Glen	Permit Office: Columbia
City, State, Zip: Lake City, FL, 32025	Permit Number:
Owner: Touchstone Construction	Jurisdiction: 221000
Design Location: FL, Gainesville	County: Columbia(Florida Climate Zone 2)

1. New construction or existing	New (From Plans)	10. Wall Types(728.0 sqft.)	Insulation	Area
2. Single family or multiple family	Detached	a. Frame - Wood, Exterior	R=13.0	728.00 ft ²
3. Number of units, if multiple family	1	b. N/A		
4. Number of Bedrooms	2	c. N/A		
5. Is this a worst case?	No	d. N/A		
6. Conditioned floor area above grade (ft ²)	917	11. Ceiling Types(917.0 sqft.)	Insulation	Area
Conditioned floor area below grade (ft ²)	0	a. Flat ceiling under att (Vented)	R=30.0	917.00 ft ²
7. Windows(68.3 sqft.)	Description	Area		
a. U-Factor:	Dbl, U=0.47	60.00 ft ²		
SHGC:	SHGC=0.31			
b. U-Factor:	Dbl, U=0.45	8.33 ft ²		
SHGC:	SHGC=0.36			
c. U-Factor:	N/A	ft ²		
SHGC:				
Area Weighted Average Overhang Depth:	2.315 ft			
Area Weighted Average SHGC:	0.316			
8. Skylights	Description	Area		
U-Factor:(AVG)	N/A	N/A ft ²		
SHGC(AVG):	N/A			
9. Floor Types	Insulation	Area		
a. Slab-On-Grade Edge Insulation	R= 0.0	916.00 ft ²		
b. N/A	R=	ft ²		
c. N/A	R=	ft ²		
			12. Roof(Comp. Shingles, Vented) Deck	R=0.0 1024 ft ²
			13. Ducts, location & insulation level	R ft ²
			a. Sup: Attic, Ret: Living Rm, AH: Laundry	6 105
			b.	
			c.	
			14. Cooling Systems	kBtu/hr Efficiency
			a. Central Unit	22.4 SEER2:14.50
			15. Heating Systems	kBtu/hr Efficiency
			a. Electric Heat Pump	22.4 HSPF2:7.50
			16. Hot Water Systems	
			a. Electric	Cap: 30 gallons
				EF: 0.945
			b. Conservation features	
				None
			17. Credits	CF, Pstat

Glass/Floor Area:0.075 Total Proposed Modified Loads: 22.45
 Total Baseline Loads: 25.44

PASS

NOTE: Proposed residence must have annual total normalized Modified Loads that are less than or equal to 95 percent of the annual total loads of the standard reference design in order to comply.

<p>I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.</p> <p>PREPARED BY: _____</p> <p>DATE: <u>12/24/2025</u></p> <p>I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.</p> <p>OWNER/AGENT: _____</p> <p>DATE: _____</p>	<p>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.</p> <div style="text-align: right;">  </div> <p>BUILDING OFFICIAL: _____</p> <p>DATE: _____</p>
---	--

- 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 5.11 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT												
Title:	Touchstone 6 Plex Unit #6 Energy				Address type:	Street Address						
Building Type:	User	Bedrooms:	2		Lot #:	---						
Owner:	Touchstone Construction	Conditioned Area:	917		Block/SubDivision:	---						
Builder Home ID:		Total Stories:	1		PlatBook:	---						
Builder Name:	Touchstone Construction	Worst Case:	No		Street:	218 S.W. Tigerview Glen						
Permit Office:	Columbia	Rotate Angle:	0		County:	Columbia						
Jurisdiction:	221000	Cross Ventilation:	No		City, State, Zip:	Lake City, FL, 32025						
Family Type:	Detached	Whole House Fan:	No									
New/Existing:	New (From Plans)	Terrain:	Suburban									
Year Construct:	2025	Shielding:	Suburban									
Comment:												
CLIMATE												
<input checked="" type="checkbox"/>	Design Location	Tmy Site	Design Temp	97.5%	2.5%	Int Design Temp	Winter	Summer	Heating Degree Days	Design Moisture	Daily temp Range	
	___ FL, Gainesville	FL_GAINESVILLE_REGIONA	32	92		70	75	1305.5	51	Medium		
BLOCKS												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume								
	___ 1	Entire House	917	7336 cu ft								
SPACES												
<input checked="" type="checkbox"/>	Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Finished	Cooled	Heated		
	___ 1	Ktchn/Dine	166	1328	Yes	0		Yes	Yes	Yes		
	___ 2	Living Rm	241	1928	No	0		Yes	Yes	Yes		
	___ 3	Bedrm #1	132	1056	No	2	1	Yes	Yes	Yes		
	___ 4	WIC #1	36	288	No	0		No	Yes	Yes		
	___ 5	Laundry	55	440	No	0		No	Yes	Yes		
	___ 6	Bathrm	47	376	No	0		No	Yes	Yes		
	___ 7	Mstr Bath	43	344	No	0		No	Yes	Yes		
	___ 8	Mstr WIC	39	312	No	0		Yes	Yes	Yes		
	___ 9	Mstr Bed	158	1264	No	2	1	Yes	Yes	Yes		
FLOORS (Total Exposed Area = 916 sq.ft.)												
<input checked="" type="checkbox"/>	#	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	Ktchn/Dine	27	166.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 2	Slab-On-Grade Edge Ins	Living Rm	27.5	241.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 3	Slab-On-Grade Edge Ins	Bedrm #1	15.5	132 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 4	Slab-On-Grade Edge Ins	WIC #1	1	35.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 5	Slab-On-Grade Edge Ins	Laundry	1	55.3 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 6	Slab-On-Grade Edge Ins	Bathrm	1	46.8 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 7	Slab-On-Grade Edge Ins	Mstr Bath	1	42.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 8	Slab-On-Grade Edge Ins	Mstr WIC	5.5	38.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00
	___ 9	Slab-On-Grade Edge Ins	Mstr Bed	22.5	157.5 sqft	0.0	---	0.473	2 (ft)/0 (ft)	0.00	1.00	0.00

INPUT SUMMARY CHECKLIST REPORT

ROOF													
✓ #	Type	Materials	Roof Area	Gable Area	Framing. Fract.	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt	Emitt Tested	Deck Insul.	Pitch (deg)
___ 1	Hip	Composition shingles	1024 ft²	0 ft²	0.11	Medium	N	0.9	No	0.9	No	0	26.57

ATTIC						
✓ #	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
___ 1	Full attic	Vented	150	916 ft²	N	N

CEILING (Total Exposed Area = 917 sq.ft.)								
✓ #	Ceiling Type	Space	R-Value	Ins. Type	Area	U-Factor	Framing Frac.	Truss Type
___ 1	Flat ceiling under attic(Vented)	Ktchn/Dine	30.0	Blown	166.0ft²	0.053	0.10	Wood
___ 2	Flat ceiling under attic(Vented)	Living Rm	30.0	Blown	241.0ft²	0.053	0.10	Wood
___ 3	Flat ceiling under attic(Vented)	Bedrm #1	30.0	Blown	132.0ft²	0.053	0.10	Wood
___ 4	Flat ceiling under attic(Vented)	WIC #1	30.0	Blown	36.0ft²	0.053	0.10	Wood
___ 5	Flat ceiling under attic(Vented)	Laundry	30.0	Blown	55.0ft²	0.053	0.10	Wood
___ 6	Flat ceiling under attic(Vented)	Bathrm	30.0	Blown	47.0ft²	0.053	0.10	Wood
___ 7	Flat ceiling under attic(Vented)	Mstr Bath	30.0	Blown	43.0ft²	0.053	0.10	Wood
___ 8	Flat ceiling under attic(Vented)	Mstr WIC	30.0	Blown	39.0ft²	0.053	0.10	Wood
___ 9	Flat ceiling under attic(Vented)	Mstr Bed	30.0	Blown	158.0ft²	0.053	0.10	Wood

WALLS (Total Exposed Area = 728 sq.ft.)															
✓ #	Ornt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area sq.ft.	U-Factor	Sheath R-Value	Frm. Frac.	Solar Absor.	Below Grade
___ 1	N	Exterior	Frame - Wood	Ktchn/Dine	13.0	7.0	6	8.0	0	60.0	0.095	0	0.25	0.23	0.0 %
___ 2	W	Exterior	Frame - Wood	Ktchn/Dine	13.0	17.0	6	8.0	0	140.0	0.095	0	0.25	0.23	0.0 %
___ 3	S	Exterior	Frame - Wood	Living Rm	13.0	15.0	6	8.0	0	124.0	0.095	0	0.25	0.23	0.0 %
___ 4	W	Exterior	Frame - Wood	Living Rm	13.0	12.0	0	8.0	0	96.0	0.095	0	0.25	0.23	0.0 %
___ 5	S	Exterior	Frame - Wood	Bedrm #1	13.0	12.0	0	8.0	0	96.0	0.095	0	0.25	0.23	0.0 %
___ 6	W	Exterior	Frame - Wood	Bedrm #1	13.0	3.0	6	8.0	0	28.0	0.095	0	0.25	0.23	0.0 %
___ 7	N	Exterior	Frame - Wood	Mstr WIC	13.0	5.0	6	8.0	0	44.0	0.095	0	0.25	0.23	0.0 %
___ 8	N	Exterior	Frame - Wood	Mstr Bed	13.0	12.0	6	8.0	0	100.0	0.095	0	0.25	0.23	0.0 %
___ 9	E	Exterior	Frame - Wood	Mstr Bed	13.0	5.0	0	8.0	0	40.0	0.095	0	0.25	0.23	0.0 %

DOORS (Total Exposed Area = 38 sq.ft.)												
✓ #	Ornt	Adjacent To	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area	
___ 1	N	Exterior	Insulated	Ktchn/Dine	Metal	0.29	2.00	8	6.00	8	17.8ft²	
___ 2	S	Exterior	Insulated	Living Rm	Metal	0.29	3.00	0	6.00	8	20.0ft²	

WINDOWS (Total Exposed Area = 68 sq.ft.)																	
✓ #	Ornt	Wall ID	Frame	Panes	NFRC	U-Factor	SHGC	Imp	Storm	Total Area (ft²)	Same Units	Width (ft)	Height (ft)	--Overhang-- Depth (ft)	Sep. (ft)	Interior Shade	Screen
___ 1	N	1	Vinyl	Low-E Double	Y	0.45	0.36	N	N	6.0	1	2.00	3.00	5.0	0.8	None	None
___ 2	W	2	Vinyl	Low-E Double	Y	0.47	0.31	N	N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%
___ 3	S	3	Vinyl	Low-E Double	Y	0.47	0.31	N	N	15.0	1	3.00	5.00	3.5	0.8	Drapes/blinds	Ex. 50%
___ 4	S	3	Vinyl	Low-E Double	Y	0.45	0.36	N	N	2.3	1	2.33	1.00	3.5	0.8	None	None
___ 5	S	5	Vinyl	Low-E Double	Y	0.47	0.31	N	N	15.0	1	3.00	5.00	1.5	0.8	Drapes/blinds	Ex. 50%

INPUT SUMMARY CHECKLIST REPORT

WINDOWS(Continued)

6 N 8 Vinyl Low-E Double Y 0.47 0.31 N N 15.0 1 3.00 5.00 1.5 0.8 Drapes/blinds Ex. 50%

INFILTRATION

<input checked="" type="checkbox"/> #	Scope	Method	SLA	CFM50	ELA	EqLA	ACH	ACH50	Space(s)	Infiltration Test Volume
<input type="checkbox"/> 1	Wholehouse	Proposed ACH(50)	0.00026	625	34.28	64.35	0.1001	5.1	All	7336 cu ft

MASS

<input checked="" type="checkbox"/> #	Mass Type	Area	Thickness	Furniture Fraction	Space
<input type="checkbox"/> 1	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Ktchn/Dine
<input type="checkbox"/> 2	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Living Rm
<input type="checkbox"/> 3	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bedrm #1
<input type="checkbox"/> 4	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	WIC #1
<input type="checkbox"/> 5	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Laundry
<input type="checkbox"/> 6	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Bathrm
<input type="checkbox"/> 7	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bath
<input type="checkbox"/> 8	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr WIC
<input type="checkbox"/> 9	Default(8 lbs/sq.ft.)	0 ft²	0 ft	0.30	Mstr Bed

HEATING SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	----Geothermal HeatPump----			Ducts	Block
						Entry	Power	Volt	Current	
<input type="checkbox"/> 1	Electric Heat Pump	Split/Single		HSPF2: 7.50	22.4		0.00	0.00	0.00	sys#1 1

COOLING SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype/Speed	AHRI #	Efficiency	Capacity kBtu/hr	Air Flow cfm	SHR	Duct	Block
<input type="checkbox"/> 1	Central Unit	Split/Single		SEER2:14.5	22.4	800	0.70	sys#1	1

HOT WATER SYSTEM

<input checked="" type="checkbox"/> #	System Type	Subtype	Location	EF(UEF)	Cap	Use	SetPnt	Fixt. Flow	Trap	Pipe Ins.	Pipe length
<input type="checkbox"/> 1	Electric	None	Ktchn/Dine	0.94 (0.93)	30.0 gal	59 gal	120 deg	Low	Yes	None	71

<input type="checkbox"/> #	Recirculation System	Recirc Control Type	Loop length	Branch length	Pump power	DWHR	Facilities Connected	Equal Flow	DWHR Eff	Other Credits
<input type="checkbox"/> 1	No		NA	NA	NA	No	NA	NA	NA	None

DUCTS

<input checked="" type="checkbox"/> #	Duct Location	Supply-----R-Value	Area	Return-----R-Value	Area	Leakage Type	AHU Location	CFM 25 TOT OUT	QN OUT	AHU SEALED	RLF	HVAC # Heat Cool
<input type="checkbox"/> 1	Attic	6.0	105 ft²	6.0	36 ft²	Default Leakage	Laundry	(Default)	(Default)			1 1

INPUT SUMMARY CHECKLIST REPORT

TEMPERATURES														
Programable Thermostat: Y				Ceiling Fans: N										
Cooling	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input checked="" type="checkbox"/> Jun	<input checked="" type="checkbox"/> Jul	<input checked="" type="checkbox"/> Aug	<input checked="" type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input type="checkbox"/> Nov	<input type="checkbox"/> Dec		
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input checked="" type="checkbox"/> Dec		
Venting	<input type="checkbox"/> Jan	<input type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input type="checkbox"/> May	<input type="checkbox"/> Jun	<input type="checkbox"/> Jul	<input type="checkbox"/> Aug	<input type="checkbox"/> Sep	<input checked="" type="checkbox"/> Oct	<input checked="" type="checkbox"/> Nov	<input type="checkbox"/> Dec		
<input checked="" type="checkbox"/> Thermostat Schedule: HERS 2006 Reference														
Schedule Type	Hours													
		1	2	3	4	5	6	7	8	9	10	11	12	
___ Cooling (WD)	AM	78	78	78	78	78	78	78	78	78	80	80	80	80
	PM	80	80	78	78	78	78	78	78	78	78	78	78	78
___ Cooling (WEH)	AM	78	78	78	78	78	78	78	78	78	78	78	78	78
	PM	78	78	78	78	78	78	78	78	78	78	78	78	78
___ Heating (WD)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66
___ Heating (WEH)	AM	66	66	66	66	66	68	68	68	68	68	68	68	68
	PM	68	68	68	68	68	68	68	68	68	68	68	66	66

Certificate of Product Ratings

AHRI Certified Reference Number : 215218024 Date : 12-23-2025 Model Status : Active

AHRI Type : HRCU-A-CB (Split System: Heat Pump with Remote Outdoor Unit-Air-Source)

Series : GLZS4B

Outdoor Unit Brand Name : GOODMAN

Outdoor Unit Model Number (Condenser or Single Package) : GLZS4BA2410A*

Indoor Unit Model Number (Evaporator and/or Air Handler) : AWST24SU13**A*

The manufacturer of this GOODMAN product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 22400

SEER2 : 14.50

EER2 (A_{Full}) – Single or High Stage (95F) : 12.00

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 22000

HSPF2 (Region IV) : 7.50



†'Active' Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

The Department of Energy has published updated energy efficiency metrics for central air conditioners and heat pumps. This publication reflects both the 1987 metric (SEER) and the 2023 metric (SEER2). Efficiency requirements are published at 10 C.F.R. 430.32(c). Please refer to www.AHRInet.org for more information about updated energy efficiency metrics.

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CERTIFICATE NO.:

134109918775440515

Certificate of Product Ratings

AHRI Certified Reference Number : 215427954 Date : 12-23-2025 Model Status : Active

AHRI Type : HRCU-A-CB (Split System: Heat Pump with Remote Outdoor Unit-Air-Source)

Series : GLZS4B

Outdoor Unit Brand Name : GOODMAN

Outdoor Unit Model Number (Condenser or Single Package) : GLZS4BA1810A*

Indoor Unit Model Number (Evaporator and/or Air Handler) : AWST18SU13**A*

The manufacturer of this GOODMAN product is responsible for the rating of this system combination.

Rated as follows in accordance with the latest edition of AHRI 210/240 – 2024, Performance Rating of Unitary Air-Conditioning & Air-Source Heat Pump Equipment and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Cooling Capacity (A_{Full}) – Single or High Stage (95F), btuh : 17000

SEER2 : 14.30

EER2 (A_{Full}) – Single or High Stage (95F) : 12.00

Heating Capacity (H1_{Full}) – Single or High Stage (47F), btuh : 17000

HSPF2 (Region IV) : 7.50



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CERTIFICATE NO.:

134109921447726036

Project Information

For: SouthEastern Mechanical Solutions
 6416 S.W. 138th Street, Archer, FL 32618
 Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
 Trade GOODMAN
 Model GLZS4BA2410A
 AHRI ref 215218024

Efficiency 7.5 HSPF2

Heating input
 Heating output 22000 Btuh @ 47°F
 Temperature rise 25 °F
 Actual air flow 800 cfm
 Air flow factor 0.060 cfm/Btuh
 Static pressure 0.51 in H2O
 Space thermostat
 Capacity balance point = 22 °F

COOLING EQUIPMENT

Make Goodman Mfg.
 Trade GOODMAN
 Cond GLZS4BA2410A
 Coil AWST24SU1310A
 AHRI ref 215218024

Efficiency 12.0 EER2, 14.5 SEER2

Sensible cooling 15680 Btuh
 Latent cooling 6720 Btuh
 Total cooling 22400 Btuh
 Actual air flow 800 cfm
 Air flow factor 0.054 cfm/Btuh
 Static pressure 0.51 in H2O
 Load sensible heat ratio 0.84

Backup:
 Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Ktchn/Dine Unit #1	166	3639	4199	219	227
Living Rm Unit #1	241	3807	4102	229	221
Bedrm #1 Unit #1	132	2130	2263	128	122
WIC #1 Unit #1	36	51	80	3	4
Laundry Unit #1	55	80	1322	5	71
Bathrm Unit #1	47	67	105	4	6
Mstr Bath Unit #1	43	61	96	4	5
Mstr WIC Unit #1	39	653	250	39	14
Mstr Bed Unit #1	158	2813	2410	169	130

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

Unit #1	916	13301	14827	800	800
Other equip loads		0	1707		
Equip. @ 0.97 RSM			16037		
Latent cooling			3131		
TOTALS	916	13301	19169	800	800

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





Load Short Form

Unit #2

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John Pirkl

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA1810A
AHRI ref 215427954

Efficiency 7.5 HSPF2
Heating input
Heating output 17000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 600 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA1810A
Coil AWST18SU1308A
AHRI ref 215427954

Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 11900 Btuh
Latent cooling 5100 Btuh
Total cooling 17000 Btuh
Actual air flow 600 cfm
Air flow factor 0.047 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.86

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Mstr WIC Unit #2	39	672	257	38	12
Bathrm Unit #2	47	69	108	4	5
WIC #1 Unit #2	36	53	83	3	4
Bedrm #1 Unit #2	132	2191	2009	125	94
Mstr Bed Unit #2	158	2894	2474	165	115
Mstr Bath Unit #2	43	63	98	4	5
Laundry Unit #2	55	82	1357	5	63
Living Rm Unit #2	241	2576	3532	147	165
Ktchn/Dine Unt #2	166	1916	2962	109	138

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



Unit #2	916	10516	12880	600	600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			14149		
Latent cooling			2439		
TOTALS	916	10516	16588	600	600

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





Load Short Form

Unit #3

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John Pirkl

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA1810A
AHRI ref 215427954

Efficiency 7.5 HSPF2
Heating input
Heating output 17000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 600 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA1810A
Coil AWST18SU1308A
AHRI ref 215427954

Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 11900 Btuh
Latent cooling 5100 Btuh
Total cooling 17000 Btuh
Actual air flow 600 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.85

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Living Rm Unit #3	241	2967	3944	169	183
Ktchn/Dine Unt #3	166	1525	2849	87	132
Mstr Bed Unit #3	158	2894	2469	165	114
Mstr Bath Unit #3	43	63	98	4	5
Laundry Unit #3	55	82	1150	5	53
Bedrm #1 Unit #3	132	2191	2005	125	93
WIC #1 Unit #3	36	53	82	3	4
Bathrm Unit #3	47	69	108	4	5
Mstr WIC Unit #3	39	672	256	38	12

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



Unit #3	916	10516	12960	600	600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			14227		
Latent cooling			2639		
TOTALS	916	10516	16866	600	600

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





Load Short Form

Unit #4

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John Pirkl

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA1810A
AHRI ref 215427954

Efficiency 7.5 HSPF2
Heating input
Heating output 17000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 600 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA1810A
Coil AWST18SU1308A
AHRI ref 215427954

Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 11900 Btuh
Latent cooling 5100 Btuh
Total cooling 17000 Btuh
Actual air flow 600 cfm
Air flow factor 0.047 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.86

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Mstr WIC Unit #4	39	672	257	38	12
Bathrm Unit #4	47	69	108	4	5
WIC #1 Unit #4	36	53	83	3	4
Ktchn/Dine Unt #4	166	1525	2855	87	133
Bedrm #1 Unit #4	132	2191	2009	125	94
Living Rm Unit #4	241	2967	3639	169	169
Laundry Unit #4	55	82	1357	5	63
Mstr Bath Unit #4	43	63	98	4	5
Mstr Bed Unit #4	158	2894	2474	165	115

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



Unit #4	916	10516	12880	600	600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			14149		
Latent cooling			2439		
TOTALS	916	10516	16588	600	600

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





Load Short Form

Unit #5

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John Pirkl

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA1810A
AHRI ref 215427954

Efficiency 7.5 HSPF2
Heating input
Heating output 17000 Btuh @ 47°F
Temperature rise 26 °F
Actual air flow 600 cfm
Air flow factor 0.057 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 23 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA1810A
Coil AWST18SU1308A
AHRI ref 215427954

Efficiency 12.0 EER2, 14.3 SEER2
Sensible cooling 11900 Btuh
Latent cooling 5100 Btuh
Total cooling 17000 Btuh
Actual air flow 600 cfm
Air flow factor 0.046 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.85

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Living Rm Unit #5	241	2576	3840	147	178
Ktchn/Dine Unt #5	166	1916	2957	109	137
Laundry Unit #5	55	82	1117	5	52
Mstr Bath Unit #5	43	63	98	4	5
Mstr Bed Unit #5	158	2894	2470	165	115
Bedrm #1 Unit #5	132	2191	2006	125	93
WIC #1 Unit #5	36	53	82	3	4
Bathrm Unit #5	47	69	108	4	5
Mstr WIC Unit #5	39	672	257	38	12

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



Unit #5	916	10516	12935	600	600
Other equip loads		0	1707		
Equip. @ 0.97 RSM			14203		
Latent cooling			2639		
TOTALS	916	10516	16841	600	600

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





Load Short Form

Unit #6

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John Pirkl

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Design Information

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

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Model GLZS4BA2410A
AHRI ref 215218024

Efficiency 7.5 HSPF2
Heating input
Heating output 22000 Btuh @ 47°F
Temperature rise 25 °F
Actual air flow 800 cfm
Air flow factor 0.060 cfm/Btuh
Static pressure 0.51 in H2O
Space thermostat
Capacity balance point = 22 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN
Cond GLZS4BA2410A
Coil AWST24SU1310A
AHRI ref 215218024

Efficiency 12.0 EER2, 14.5 SEER2
Sensible cooling 15680 Btuh
Latent cooling 6720 Btuh
Total cooling 22400 Btuh
Actual air flow 800 cfm
Air flow factor 0.054 cfm/Btuh
Static pressure 0.51 in H2O
Load sensible heat ratio 0.84

Backup:
Input = 5 kW, Output = 17061 Btuh, 100 AFUE

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Bedrm #1 Unit #6	132	2130	2298	128	124
WIC #1 Unit #6	36	51	82	3	4
Bathrm Unit #6	47	67	107	4	6
Living Rm Unit #6	241	3807	4167	229	225
Laundry Unit #6	55	80	1343	5	73
Ktchn/Dine Unt #6	166	3639	3990	219	216
Mstr WIC Unit #6	39	653	254	39	14
Mstr Bath Unit #6	43	61	97	4	5
Mstr Bed Unit #6	158	2813	2448	169	132

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



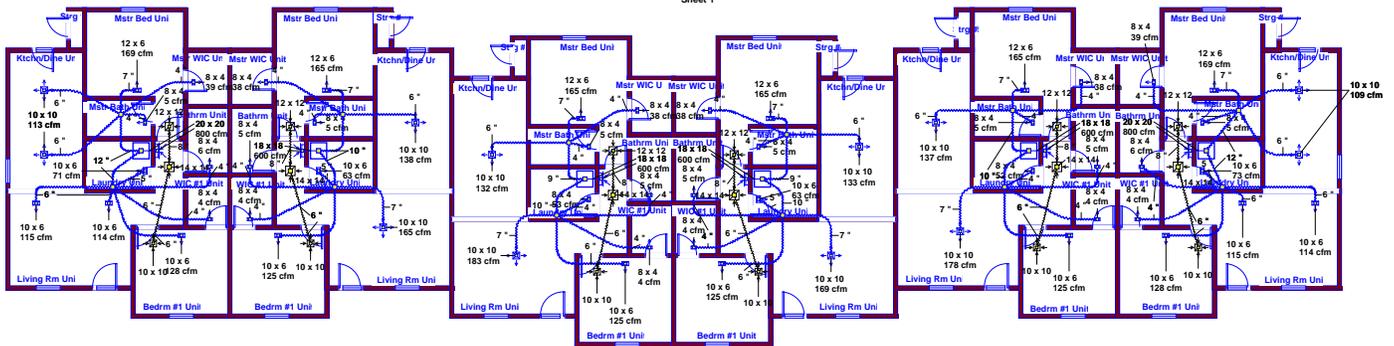
Unit #6	916	13301	14785	800	800
Other equip loads		0	1707		
Equip. @ 0.97 RSM			15997		
Latent cooling			3131		
TOTALS	916	13301	19129	800	800

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





Sheet 1



Job #: Touchstone 6 Plex Apartment Bldg
Performed by John PirkI for:
SouthEastern Mechanical Solutions
6416 S.W. 138th Street
Archer, FL 32618
Phone: (352) 727 - 0273

New Age Dimensions, LLC.

14080 S.E. 122nd Lane Road
Ocklawaha, FL 32179
Phone: (352) 288 - 0686 Fax: (352) 288 - 0684
john.newage@gmail.com

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Manual S Compliance Report

Unit #1

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	16533 Btuh	Entering coil DB:	78.6°F
Outdoor design WB:	76.3°F	Latent gain:	3131 Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	19665 Btuh		
Indoor RH:	50%	Estimated airflow:	800 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AWST24SU1310A		
Actual airflow:	800 cfm				
Sensible capacity:	15680 Btuh	95% of load			
Latent capacity:	6720 Btuh	215% of load			
Total capacity:	22400 Btuh	114% of load	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	13301 Btuh	Entering coil DB:	67.3°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AWST24SU1310A		
Actual airflow:	800 cfm				
Output capacity:	22000 Btuh	165% of load		Capacity balance:	22 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	800 cfm				
Output capacity:	5.0 kW	128% of load	Temp. rise:	20 °F	

Meets all requirements of ACCA Manual S.





Manual S Compliance Report

Unit #2

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	14587 Btuh	Entering coil DB:	79.7°F
Outdoor design WB:	76.3°F	Latent gain:	2439 Btuh	Entering coil WB:	64.4°F
Indoor design DB:	75.0°F	Total gain:	17026 Btuh		
Indoor RH:	50%	Estimated airflow:	600 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A	
Actual airflow:	600 cfm			
Sensible capacity:	11900 Btuh		82% of load	
Latent capacity:	5100 Btuh		209% of load	
Total capacity:	17000 Btuh		100% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	10516 Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A	
Actual airflow:	600 cfm			
Output capacity:	17000 Btuh		162% of load	Capacity balance: 23 °F
Supplemental heat required:	0 Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	600 cfm			
Output capacity:	5.0 kW	162% of load	Temp. rise:	26 °F

Meets all requirements of ACCA Manual S.



Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	14667 Btuh	Entering coil DB:	79.7°F
Outdoor design WB:	76.3°F	Latent gain:	2639 Btuh	Entering coil WB:	64.4°F
Indoor design DB:	75.0°F	Total gain:	17306 Btuh		
Indoor RH:	50%	Estimated airflow:	600 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A		
Actual airflow:	600 cfm				
Sensible capacity:	11900 Btuh	81% of load			
Latent capacity:	5100 Btuh	193% of load			
Total capacity:	17000 Btuh	98% of load	SHR:	70%	

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	10516 Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A		
Actual airflow:	600 cfm				
Output capacity:	17000 Btuh	162% of load		Capacity balance:	23 °F
Supplemental heat required:	0 Btuh			Economic balance:	-99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	600 cfm				
Output capacity:	5.0 kW	162% of load	Temp. rise:	26 °F	

Meets all requirements of ACCA Manual S.



Manual S Compliance Report

Unit #4

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	14587 Btuh	Entering coil DB:	79.7°F
Outdoor design WB:	76.3°F	Latent gain:	2439 Btuh	Entering coil WB:	64.4°F
Indoor design DB:	75.0°F	Total gain:	17026 Btuh		
Indoor RH:	50%	Estimated airflow:	600 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP		
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A
Actual airflow:	600 cfm		
Sensible capacity:	11900 Btuh	82% of load	
Latent capacity:	5100 Btuh	209% of load	
Total capacity:	17000 Btuh	100% of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	10516 Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A	
Actual airflow:	600 cfm			
Output capacity:	17000 Btuh	162% of load		Capacity balance: 23 °F
Supplemental heat required:	0 Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip		
Manufacturer:		Model:	
Actual airflow:	600 cfm		
Output capacity:	5.0 kW	162% of load	Temp. rise: 26 °F

Meets all requirements of ACCA Manual S.





Manual S Compliance Report

Unit #5

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	14642 Btuh	Entering coil DB:	79.7°F
Outdoor design WB:	76.3°F	Latent gain:	2639 Btuh	Entering coil WB:	64.4°F
Indoor design DB:	75.0°F	Total gain:	17281 Btuh		
Indoor RH:	50%	Estimated airflow:	600 cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A	
Actual airflow:	600 cfm			
Sensible capacity:	11900 Btuh	81% of load		
Latent capacity:	5100 Btuh	193% of load		
Total capacity:	17000 Btuh	98% of load	SHR:	70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	10516 Btuh	Entering coil DB:	67.1°F
Indoor design DB:	68.0°F				

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP			
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA1810A+AWST18SU1308A	
Actual airflow:	600 cfm			
Output capacity:	17000 Btuh	162% of load		Capacity balance: 23 °F
Supplemental heat required:	0 Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip			
Manufacturer:		Model:		
Actual airflow:	600 cfm			
Output capacity:	5.0 kW	162% of load	Temp. rise:	26 °F

Meets all requirements of ACCA Manual S.





Manual S Compliance Report

Unit #6

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

Cooling Equipment

Design Conditions

Outdoor design DB:	92.0°F	Sensible gain:	16492	Btuh	Entering coil DB:	78.6°F
Outdoor design WB:	76.3°F	Latent gain:	3131	Btuh	Entering coil WB:	64.0°F
Indoor design DB:	75.0°F	Total gain:	19623	Btuh		
Indoor RH:	50%	Estimated airflow:	800	cfm		

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AWST24SU1310A		
Actual airflow:	800	cfm			
Sensible capacity:	15680	Btuh	95%	of load	
Latent capacity:	6720	Btuh	215%	of load	
Total capacity:	22400	Btuh	114%	of load	SHR: 70%

Heating Equipment

Design Conditions

Outdoor design DB:	33.4°F	Heat loss:	13301	Btuh	Entering coil DB:	67.3°F
Indoor design DB:	68.0°F					

Manufacturer's Performance Data at Actual Design Conditions

Equipment type:	Split ASHP				
Manufacturer:	Goodman Mfg.	Model:	GLZS4BA2410A+AWST24SU1310A		
Actual airflow:	800	cfm			
Output capacity:	22000	Btuh	165%	of load	Capacity balance: 22 °F
Supplemental heat required:	0	Btuh			Economic balance: -99 °F

Backup equipment type:	Elec strip				
Manufacturer:		Model:			
Actual airflow:	800	cfm			
Output capacity:	5.0	kW	128%	of load	Temp. rise: 20 °F

Meets all requirements of ACCA Manual S.





Duct System Summary

Unit #1

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.247 / 0.083 in H2O	0.247 / 0.083 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	800 cfm	800 cfm
Total effective length (TEL)		248 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #1	c 105	4	6	0.880	4.0	0x0	VIFx	20.8	165.0	st9
Bedrm #1 Unit #1	h 2130	128	122	0.880	6.0	0x0	VIFx	19.1	165.0	st9
Ktchn/Dine Unit #1	c 2099	109	113	0.880	6.0	0x0	VIFx	17.3	165.0	st10
Ktchn/Dine Unit #1-A	c 2099	109	113	0.880	6.0	0x0	VIFx	18.4	165.0	st10
Laundry Unit #1	c 1322	5	71	0.880	5.0	0x0	VIFx	10.8	160.0	st9
Living Rm Unit #1	h 1904	115	111	0.880	6.0	0x0	VIFx	17.8	165.0	st9
Living Rm Unit #1-A	h 1904	114	111	0.880	6.0	0x0	VIFx	8.4	160.0	st9
Mstr Bath Unit #1	c 96	4	5	0.880	4.0	0x0	VIFx	11.0	165.0	st10
Mstr Bed Unit #1	h 2813	169	130	0.880	7.0	0x0	VIFx	12.0	165.0	st10
Mstr WIC Unit #1	h 653	39	14	0.880	4.0	0x0	VIFx	17.2	165.0	st10
WIC #1 Unit #1	c 80	3	4	0.880	4.0	0x0	VIFx	19.5	165.0	st9

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st9	Peak AVF	369	425	0.880	541	12.0	0 x 0	VinIFlx	
st10	Peak AVF	431	375	0.880	549	12.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb2	20x 19	800	800	62.0	0.880	288	16.0	20x 20		RtFg	

Project Information

For: SouthEastern Mechanical Solutions
 6416 S.W. 138th Street, Archer, FL 32618
 Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.247 / 0.083 in H2O	0.247 / 0.083 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	600 cfm	600 cfm
Total effective length (TEL)		245 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #2	c 108	4	5	0.880	4.0	0x0	VIFx	18.2	165.0	st12
Bedrm #1 Unit #2	h 2191	125	94	0.880	6.0	0x0	VIFx	18.2	165.0	st12
Ktchn/Dine Unit #2	c 2962	109	138	0.880	6.0	0x0	VIFx	17.5	165.0	st11
Laundry Unit #2	c 1357	5	63	0.880	5.0	0x0	VIFx	8.0	160.0	st12
Living Rm Unit #2	c 3532	147	165	0.880	7.0	0x0	VIFx	16.2	165.0	st12
Mstr Bath Unit #2	c 98	4	5	0.880	4.0	0x0	VIFx	12.0	165.0	st11
Mstr Bed Unit #2	h 2894	165	115	0.880	7.0	0x0	VIFx	12.5	165.0	st11
Mstr WIC Unit #2	h 672	38	12	0.880	4.0	0x0	VIFx	18.1	165.0	st11
WIC #1 Unit #2	c 83	3	4	0.880	4.0	0x0	VIFx	16.6	165.0	st12

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st11	Peak AVF	316	270	0.880	580	10.0	0 x 0	VinIFlx	
st12	Peak AVF	284	330	0.880	605	10.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb1	18x 15	600	600	62.0	0.880	267	14.0	18x 18		RtFg	

Project Information

For: SouthEastern Mechanical Solutions
 6416 S.W. 138th Street, Archer, FL 32618
 Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.248 / 0.082 in H2O	0.248 / 0.082 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	600 cfm	600 cfm
Total effective length (TEL)		248 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #3	c 108	4	5	0.880	4.0	0x0	VIFx	20.5	165.0	st8
Bedrm #1 Unit #3	h 2191	125	93	0.880	6.0	0x0	VIFx	21.0	165.0	st8
Ktchn/Dine Unit #3	c 2849	87	132	0.880	6.0	0x0	VIFx	17.5	165.0	st7
Laundry Unit #3	c 1150	5	53	0.880	4.0	0x0	VIFx	11.0	160.0	st8
Living Rm Unit #3	c 3944	169	183	0.880	7.0	0x0	VIFx	16.5	165.0	st8
Mstr Bath Unit #3	c 98	4	5	0.880	4.0	0x0	VIFx	9.0	160.0	st7
Mstr Bed Unit #3	h 2894	165	114	0.880	7.0	0x0	VIFx	11.0	165.0	st7
Mstr WIC Unit #3	h 672	38	12	0.880	4.0	0x0	VIFx	16.2	165.0	st7
WIC #1 Unit #3	c 82	3	4	0.880	4.0	0x0	VIFx	19.0	165.0	st8

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st7	Peak AVF	294	263	0.880	666	9.0	0 x 0	VinIFlx	
st8	Peak AVF	306	337	0.880	619	10.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb3	18x 15	600	600	62.0	0.880	267	14.0	18x 18		RtFg	



Duct System Summary

Unit #4

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.247 / 0.083 in H2O	0.247 / 0.083 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	600 cfm	600 cfm
Total effective length (TEL)		246 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #4	c 108	4	5	0.880	4.0	0x0	VIFx	19.4	165.0	st6
Bedrm #1 Unit #4	h 2191	125	94	0.880	6.0	0x0	VIFx	19.4	165.0	st6
Ktchn/Dine Unit #4	c 2855	87	133	0.880	6.0	0x0	VIFx	19.0	165.0	st5
Laundry Unit #4	c 1357	5	63	0.880	5.0	0x0	VIFx	9.5	160.0	st6
Living Rm Unit #4	c 3639	169	169	0.880	7.0	0x0	VIFx	16.9	165.0	st6
Mstr Bath Unit #4	c 98	4	5	0.880	4.0	0x0	VIFx	12.3	160.0	st5
Mstr Bed Unit #4	h 2894	165	115	0.880	7.0	0x0	VIFx	12.5	165.0	st5
Mstr WIC Unit #4	h 672	38	12	0.880	4.0	0x0	VIFx	18.6	165.0	st5
WIC #1 Unit #4	c 83	3	4	0.880	4.0	0x0	VIFx	17.9	165.0	st6

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st5	Peak AVF	294	265	0.880	666	9.0	0 x 0	VinIFlx	
st6	Peak AVF	306	335	0.880	615	10.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb4	18x 15	600	600	62.0	0.880	267	14.0	18x 18		RtFg	

Project Information

For: SouthEastern Mechanical Solutions
 6416 S.W. 138th Street, Archer, FL 32618
 Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.247 / 0.083 in H2O	0.247 / 0.083 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	600 cfm	600 cfm
Total effective length (TEL)		247 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #5	c 108	4	5	0.880	4.0	0x0	VIFx	20.1	165.0	st4
Bedrm #1 Unit #5	h 2191	125	93	0.880	6.0	0x0	VIFx	20.1	165.0	st4
Ktchn/Dine Unit #5	c 2957	109	137	0.880	6.0	0x0	VIFx	18.0	165.0	st3
Laundry Unit #5	c 1117	5	52	0.880	4.0	0x0	VIFx	10.1	160.0	st4
Living Rm Unit #5	c 3840	147	178	0.880	7.0	0x0	VIFx	17.1	165.0	st4
Mstr Bath Unit #5	c 98	4	5	0.880	4.0	0x0	VIFx	9.9	160.0	st3
Mstr Bed Unit #5	h 2894	165	115	0.880	7.0	0x0	VIFx	11.0	165.0	st3
Mstr WIC Unit #5	h 672	38	12	0.880	4.0	0x0	VIFx	19.0	165.0	st3
WIC #1 Unit #5	c 82	3	4	0.880	4.0	0x0	VIFx	18.6	165.0	st4

Supply Trunk Detail Table

Name	Trunk Type	Htg (cfm)	Clg (cfm)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Duct Material	Trunk
st3	Peak AVF	316	268	0.880	580	10.0	0 x 0	VinIFlx	
st4	Peak AVF	284	332	0.880	608	10.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb5	18x 15	600	600	62.0	0.880	267	14.0	18x 18		RtFg	



Duct System Summary

Unit #6

New Age Dimensions, LLC.

Job: Touchstone 6 Plex Apar...

Date: 12/23/2025

By: John PirkI

Plan: Manual J and D

14080 S.E. 122nd Lane Road, Ocklawaha, FL 32179 Phone: (352) 288 - 0686 Fax: (352) 288 - 0684 Email: john.newage@gmail.com

Project Information

For: SouthEastern Mechanical Solutions
6416 S.W. 138th Street, Archer, FL 32618
Phone: (352) 727 - 0273

	Heating	Cooling
External static pressure	0.51 in H2O	0.51 in H2O
Pressure losses	0.18 in H2O	0.18 in H2O
Available static pressure	0.33 in H2O	0.33 in H2O
Supply / return available pressure	0.246 / 0.084 in H2O	0.246 / 0.084 in H2O
Lowest friction rate	0.880 in/100ft	0.880 in/100ft
Actual air flow	800 cfm	800 cfm
Total effective length (TEL)		242 ft

Supply Branch Detail Table

Name	Design (Btuh)	Htg (cfm)	Clg (cfm)	Design FR	Diam (in)	H x W (in)	Duct Matl	Actual Ln (ft)	Ftg.Eqv Ln (ft)	Trunk
Bathrm Unit #6	c 107	4	6	0.880	4.0	0x0	VIFx	15.7	160.0	st2
Bedrm #1 Unit #6	h 2130	128	124	0.880	6.0	0x0	VIFx	17.9	160.0	st2
Ktchn/Dine Unit #6	h 1819	109	108	0.880	6.0	0x0	VIFx	14.7	160.0	st1
Ktchn/Dine Unit #6-A	h 1819	109	108	0.880	6.0	0x0	VIFx	16.9	160.0	st1
Laundry Unit #6	c 1343	5	73	0.880	5.0	0x0	VIFx	8.1	155.0	st2
Living Rm Unit #6	h 1904	115	113	0.880	6.0	0x0	VIFx	8.6	160.0	st2
Living Rm Unit #6-A	h 1904	114	113	0.880	6.0	0x0	VIFx	18.4	160.0	st2
Mstr Bath Unit #6	c 97	4	5	0.880	4.0	0x0	VIFx	11.1	155.0	st1
Mstr Bed Unit #6	h 2813	169	132	0.880	7.0	0x0	VIFx	11.9	160.0	st1
Mstr WIC Unit #6	h 653	39	14	0.880	4.0	0x0	VIFx	20.4	160.0	st1
WIC #1 Unit #6	c 82	3	4	0.880	4.0	0x0	VIFx	16.6	160.0	st2

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	431	367	0.880	549	12.0	0 x 0	VinIFlx	
st2	Peak AVF	369	433	0.880	551	12.0	0 x 0	VinIFlx	

Return Branch Detail Table

Name	Grille Size (in)	Htg (cfm)	Clg (cfm)	TEL (ft)	Design FR	Veloc (fpm)	Diam (in)	H x W (in)	Stud/Joist Opening (in)	Duct Matl	Trunk
rb6	20x 19	800	800	62.0	0.880	288	16.0	20x 20		RtFg	