

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

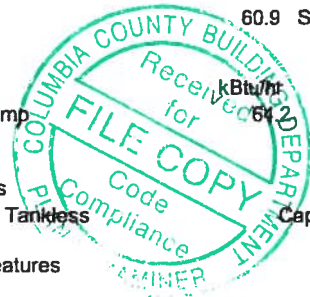
Florida Department of Business and Professional Regulation - Residential Performance Method

Project Name: New Project TODD Street: 7131 SE CR 245 City, State, Zip: LAKECITY , FL , Owner: Design Location: FL, Gainesville	Builder Name: Stanley Crawford Const. Inc. Permit Office: Permit Number: Jurisdiction: County: Columbia (Florida Climate Zone 2)
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1. New construction or existing New (From Plans) 2. Single family or multiple family Single-family 3. Number of units, if multiple family 1 4. Number of Bedrooms 5 5. Is this a worst case? No 6. Conditioned floor area above grade (ft²) 2718 Conditioned floor area below grade (ft²) 0 7. Windows(356.3 sqft.) <table style="width:100%;"> <tr> <th>Description</th> <th>Area</th> </tr> <tr> <td>a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22</td> <td>356.33 ft²</td> </tr> <tr> <td>b. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> <tr> <td>c. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> <tr> <td>d. U-Factor: N/A SHGC:</td> <td>ft²</td> </tr> </table> Area Weighted Average Overhang Depth: 2.000 ft. Area Weighted Average SHGC: 0.220 8. Floor Types (1080.0 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Slab-On-Grade Edge Insulation R=0.0</td> <td>1080.00 ft²</td> </tr> <tr> <td>b. N/A R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A R=</td> <td>ft²</td> </tr> </table>	Description	Area	a. U-Factor: Dbl, U=0.33 SHGC: SHGC=0.22	356.33 ft²	b. U-Factor: N/A SHGC:	ft²	c. U-Factor: N/A SHGC:	ft²	d. U-Factor: N/A SHGC:	ft²	Insulation	Area	a. Slab-On-Grade Edge Insulation R=0.0	1080.00 ft²	b. N/A R=	ft²	c. N/A R=	ft²	9. Wall Types (2801.3 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Frame - Wood, Exterior R=13.0</td> <td>2801.30 ft²</td> </tr> <tr> <td>b. N/A R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A R=</td> <td>ft²</td> </tr> <tr> <td>d. N/A R=</td> <td>ft²</td> </tr> </table> 10. Ceiling Types (1080.0 sqft.) <table style="width:100%;"> <tr> <th>Insulation</th> <th>Area</th> </tr> <tr> <td>a. Under Attic (Vented) R=30.0</td> <td>1080.00 ft²</td> </tr> <tr> <td>b. N/A R=</td> <td>ft²</td> </tr> <tr> <td>c. N/A R=</td> <td>ft²</td> </tr> </table> 11. Ducts <table style="width:100%;"> <tr> <th>R</th> <th>ft²</th> </tr> <tr> <td>a. Sup: Attic, Ret: Attic, AH: Main</td> <td>6 543.6</td> </tr> </table> 12. Cooling systems <table style="width:100%;"> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> <tr> <td>a. Central Unit 60.9</td> <td>SEER:14.00</td> </tr> </table> 13. Heating systems <table style="width:100%;"> <tr> <th>kBtu/hr</th> <th>Efficiency</th> </tr> <tr> <td>a. Electric Heat Pump 64.2</td> <td>HSPF:8.42</td> </tr> </table> 14. Hot water systems <table style="width:100%;"> <tr> <td>a. Propane Tankless</td> <td>Cap: 1 gallons</td> </tr> <tr> <td>b. Conservation features None</td> <td>EF: 0.860</td> </tr> </table> 15. Credits Pstat	Insulation	Area	a. Frame - Wood, Exterior R=13.0	2801.30 ft²	b. N/A R=	ft²	c. N/A R=	ft²	d. N/A R=	ft²	Insulation	Area	a. Under Attic (Vented) R=30.0	1080.00 ft²	b. N/A R=	ft²	c. N/A R=	ft²	R	ft²	a. Sup: Attic, Ret: Attic, AH: Main	6 543.6	kBtu/hr	Efficiency	a. Central Unit 60.9	SEER:14.00	kBtu/hr	Efficiency	a. Electric Heat Pump 64.2	HSPF:8.42	a. Propane Tankless	Cap: 1 gallons	b. Conservation features None	EF: 0.860
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Glass/Floor Area: 0.131	Total Proposed Modified Loads: 66.87	PASS
	Total Baseline Loads: 76.11	

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code. <div style="text-align: center;"> SUNCOAST INSULATORS 825 NW 253rd Terrace Newberry, FL 32669 (352) 472-8595 Fax (352) 472-2633 </div> PREPARED BY: <u>Stanley Crawford</u> DATE: <u>05-03-2019</u> I hereby certify that this building, as designed, is in compliance with the Florida Energy Code. OWNER/AGENT: <u>Stanley Crawford</u> DATE: <u>05-03-2019</u>	Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes. BUILDING OFFICIAL: _____ DATE: _____
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- Compliance requires certification by the air handler unit manufacturer that the air handler enclosure qualifies as certified factory-sealed in accordance with R403.3.2.1.
- Compliance requires an Air Barrier and Insulation Inspection Checklist in accordance with R402.4.1.1 and this project requires an envelope leakage test report with envelope leakage no greater than 5.00 ACH50 (R402.4.1.2).

INPUT SUMMARY CHECKLIST REPORT

PROJECT

Title:	New Project TODD	Bedrooms:	5	Address Type:	Street Address
Building Type:	User	Conditioned Area:	2629	Lot #	
Owner Name:		Total Stories:	3	Block/Subdivision:	
# of Units:	1	Worst Case:	No	PlatBook:	
Builder Name:	Stanley Crawford Const. Inc.	Rotate Angle:	0	Street:	7131 SE CR 245
Permit Office:		Cross Ventilation:		County:	Columbia
Jurisdiction:		Whole House Fan:		City, State, Zip:	LAKECITY , FL ,
Family Type:	Single-family				
New/Existing:	New (From Plans)				
Comment:					

CLIMATE

✓	Design Location	TMY Site	Design Temp 97.5 %	Design Temp 2.5 %	Int Design Temp Winter	Int Design Temp Summer	Heating Degree Days	Design Moisture	Daily Temp Range
_____	FL, Gainesville	FL_GAINESVILLE_REGI	32	92	70	75	1305.5	51	Medium

BLOCKS

Number	Name	Area	Volume
1	Block1	2718	24462

SPACES

Number	Name	Area	Volume	Kitchen	Occupants	Bedrooms	Infil ID	Finished	Cooled	Heated
1	Main	2718	24462	Yes	4	5	1	Yes	Yes	Yes

FLOORS

✓	#	Floor Type	Space	Perimeter	R-Value	Area	Tile	Wood	Carpet
_____	1	Slab-On-Grade Edge Insulatio	Main	134 ft	0	1080 ft²	----	0	0 1

ROOF

✓	#	Type	Materials	Roof Area	Gable Area	Roof Color	Rad Barr	Solar Absor.	SA Tested	Emitt Tested	Emitt Tested	Deck Insul.	Pitch (deg)
_____	1	Hip	Composition shingles	1170 ft²	0 ft²	Medium	N	0.96	No	0.9	No	0	22.6

ATTIC

✓	#	Type	Ventilation	Vent Ratio (1 in)	Area	RBS	IRCC
_____	1	Full attic	Vented	150	1080 ft²	N	N

CEILING

✓	#	Ceiling Type	Space	R-Value	Ins Type	Area	Framing Frac	Truss Type
_____	1	Under Attic (Vented)	Main	30	Blown	1080 ft²	0.11	Wood

INPUT SUMMARY CHECKLIST REPORT

WALLS

✓ #	Omt	Adjacent To	Wall Type	Space	Cavity R-Value	Width Ft	In	Height Ft	In	Area	Sheathing R-Value	Framing Fraction	Solar Absor	Below Grade%
1	S	Exterior	Frame - Wood	Main	13	40		9		360.0 ft²		0.23	0.75	0
2	S	Exterior	Frame - Wood	Main	13	40		9		360.0 ft²		0.23	0.75	0
3	S	Exterior	Frame - Wood	Main	13	12		8		96.0 ft²		0.23	0.75	0
4	W	Exterior	Frame - Wood	Main	13	27		9		243.0 ft²		0.23	0.75	0
5	W	Exterior	Frame - Wood	Main	13	27		9		243.0 ft²		0.23	0.75	0
6	W	Exterior	Frame - Wood	Main	13	12	8	8		101.3 ft²		0.23	0.75	0
7	N	Exterior	Frame - Wood	Main	13	40		9		360.0 ft²		0.23	0.75	0
8	N	Exterior	Frame - Wood	Main	13	40		9		360.0 ft²		0.23	0.75	0
9	N	Exterior	Frame - Wood	Main	13	11	4	8		90.7 ft²		0.23	0.75	0
10	E	Exterior	Frame - Wood	Main	13	27		9		243.0 ft²		0.23	0.75	0
11	E	Exterior	Frame - Wood	Main	13	27		9		243.0 ft²		0.23	0.75	0
12	E	Exterior	Frame - Wood	Main	13	12	8	8		101.3 ft²		0.23	0.75	0

DOORS

✓ #	Omt	Door Type	Space	Storms	U-Value	Width Ft	In	Height Ft	In	Area
1	S	Insulated	Main	None	.46	3		6	8	20 ft²
2	W	Insulated	Main	None	.46	3		6	8	20 ft²
3	N	Insulated	Main	None	.46	3		6	8	20 ft²

WINDOWS

Orientation shown is the entered, Proposed orientation.

✓ #	Omt	Wall ID	Frame	Panels	NFRC	U-Factor	SHGC	Imp	Area	Overhang Depth	Separation	Int Shade	Screening
1	S	1	Vinyl	Double (Clear)	Yes	0.33	0.22	N	72.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
2	S	1	Vinyl	Double (Clear)	Yes	0.33	0.22	N	13.3 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
3	S	2	Vinyl	Double (Clear)	Yes	0.33	0.22	N	75.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
4	S	3	Vinyl	Double (Clear)	Yes	0.33	0.22	N	24.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
5	W	5	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
6	W	5	Vinyl	Double (Clear)	Yes	0.33	0.22	N	4.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
7	W	6	Vinyl	Double (Clear)	Yes	0.33	0.22	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
8	N	7	Vinyl	Double (Clear)	Yes	0.33	0.22	N	24.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
9	N	7	Vinyl	Double (Clear)	Yes	0.33	0.22	N	36.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
10	N	8	Vinyl	Double (Clear)	Yes	0.33	0.22	N	4.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
11	N	8	Vinyl	Double (Clear)	Yes	0.33	0.22	N	8.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
12	N	8	Vinyl	Double (Clear)	Yes	0.33	0.22	N	30.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
13	N	9	Vinyl	Double (Clear)	Yes	0.33	0.22	N	6.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5
14	E	12	Vinyl	Double (Clear)	Yes	0.33	0.22	N	15.0 ft²	2 ft 0 in	1 ft 0 in	Drapes/blinds	Exterior 5

INPUT SUMMARY CHECKLIST REPORT

INFILTRATION

#	Scope	Method	SLA	CFM 50	ELA	EqLA	ACH	ACH 50
1	Wholehouse	Proposed ACH(50)	.000286	2038.5	111.91	210.46	.175	5

HEATING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Block	Ducts
	1 A	Electric Heat Pump/	None	HSPF:8.5	47 kBtu/hr	1	sys#1
	1 B	Electric Heat Pump/	None	HSPF:8.2	17.2 kBtu/hr	1	sys#1

COOLING SYSTEM

✓	#	System Type	Subtype	Efficiency	Capacity	Air Flow	SHR	Block	Ducts
	1 A	Central Unit/	None	SEER: 14	44.5 kBtu/hr	1335 cfm	0.5	1	sys#1
	1 B	Central Unit/	None	SEER: 14	16.4 kBtu/hr	492 cfm	0.5	1	sys#1

HOT WATER SYSTEM

✓	#	System Type	SubType	Location	EF	Cap	Use	SetPnt	Conservation
	1	Propane	Tankless	Exterior	0.86	1 gal	80 gal	120 deg	None

SOLAR HOT WATER SYSTEM

✓	FSEC Cert #	Company Name	System Model #	Collector Model #	Collector Area	Storage Volume	FEF
	None	None			ft ²		

DUCTS

✓	#	— Supply — Location	R-Value	Area	— Return — Location	Area	Leakage Type	Air Handler	CFM 25 TOT	CFM25 OUT	QN	RLF	HVAC # Heat	Cool
	1	Attic	6	543.6 ft	Attic	135.9 ft	Default Leakage	Main	(Default)	(Default)			1	1

TEMPERATURES

Programmable Thermostat: Y

Ceiling Fans:

Cooling	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" 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 checked="" type="checkbox"/> Dec
Heating	<input checked="" type="checkbox"/> Jan	<input checked="" type="checkbox"/> Feb	<input checked="" type="checkbox"/> Mar	<input checked="" type="checkbox"/> Apr	<input checked="" 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 checked="" type="checkbox"/> Dec
Venting	<input type="checkbox"/> Jan	<input 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 type="checkbox"/> Nov	<input type="checkbox"/> Dec

INPUT SUMMARY CHECKLIST REPORT

Thermostat Schedule: HERS 2006 Reference		Hours											
Schedule Type		1	2	3	4	5	6	7	8	9	10	11	12
Cooling (WD)	AM PM	78 80	78 80	78 78	78 78	78 78	78 78	78 78	78 78	80 78	80 78	80 78	80 78
Cooling (WEH)	AM PM	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78	78 78
Heating (WD)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
Heating (WEH)	AM PM	66 68	66 68	66 68	66 68	66 68	68 68	68 68	68 68	68 68	68 68	68 66	68 66
MASS													
Mass Type		Area		Thickness		Furniture Fraction		Space					
Default(8 lbs/sq.ft.)		0 ft²		0 ft		0.3		Main					

RESIDENTIAL ENERGY CONSERVATION CODE DOCUMENTATION CHECKLIST

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

Applications for compliance with the 2017 Florida Building Code, Energy Conservation via the residential Simulated Performance Method shall include:

- ☐ *This checklist*
- ☐ *A Form R405 report that documents that the Proposed Design complies with Section R405.3 of the Florida Energy Code. This form shall include a summary page indicating home address, e-ratio and the pass or fail status along with summary areas and types of components, whether the home was simulated as a worst-case orientation, name and version of the compliance software tool, name of individual completing the compliance report (one page) and an input summary checklist that can be used for field verification (usually four pages/may be greater).*
- ☐ *Energy Performance Level (EPL) Display Card (one page)*
- ☐ *HVAC system sizing and selection based on ACCA Manual S or per exceptions provided in Section R403.7*
- ☐ *Mandatory Requirements (five pages)*

Required prior to CO for the Performance Method:

- ☐ *Air Barrier and Insulation Inspection Component Criteria checklist (Table R402.4.1.1 - one page)*
- ☐ *A completed Envelope Leakage Test Report (usually one page)*
- ☐ *If Form R405 duct leakage type indicates anything other than "default leakage", then a completed Form R405 Duct Leakage Test Report (usually one page)*

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE INDEX* = 88

The lower the Energy Performance Index, the more efficient the home.

1. New home or, addition	1. <u>New (From Plans)</u>	12. Ducts, location & insulation level	
2. Single-family or multiple-family	2. <u>Single-family</u>	a) Supply ducts	R <u>6.0</u>
3. No. of units (if multiple-family)	3. <u>1</u>	b) Return ducts	R <u>6.0</u>
4. Number of bedrooms	4. <u>5</u>	c) AHU location	<u>Main</u>
5. Is this a worst case? (yes/no)	5. <u>No</u>	13. Cooling system:	Capacity <u>60.9</u>
6. Conditioned floor area (sq. ft.)	6. <u>2718</u>	a) Split system	SEER <u> </u>
7. Windows, type and area		b) Single package	SEER <u> </u>
a) U-factor:(weighted average)	7a. <u>0.330</u>	c) Ground/water source	SEER/COP <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	7b. <u>0.220</u>	d) Room unit/PTAC	EER <u> </u>
c) Area	7c. <u>356.3</u>	e) Other	<u>14.0</u>
8. Skylights		14. Heating system:	Capacity <u>64.2</u>
a) U-factor:(weighted average)	8a. <u>NA</u>	a) Split system heat pump	HSPF <u> </u>
b) Solar Heat Gain Coefficient (SHGC)	8b. <u>NA</u>	b) Single package heat pump	HSPF <u> </u>
9. Floor type, insulation level:		c) Electric resistance	COP <u> </u>
a) Slab-on-grade (R-value)	9a. <u>0.0</u>	d) Gas furnace, natural gas	AFUE <u> </u>
b) Wood, raised (R-value)	9b. <u> </u>	e) Gas furnace, LPG	AFUE <u> </u>
c) Concrete, raised (R-value)	9c. <u> </u>	f) Other	<u>8.42</u>
10. Wall type and insulation:		15. Water heating system	
A. Exterior:		a) Electric resistance	EF <u> </u>
1. Wood frame (Insulation R-value)	10A1. <u>13.0</u>	b) Gas fired, natural gas	EF <u> </u>
2. Masonry (Insulation R-value)	10A2. <u> </u>	c) Gas fired, LPG	EF <u>0.86</u>
B. Adjacent:		d) Solar system with tank	EF <u> </u>
1. Wood frame (Insulation R-value)	10B1. <u> </u>	e) Dedicated heat pump with tank	EF <u> </u>
2. Masonry (Insulation R-value)	10B2. <u> </u>	f) Heat recovery unit	HeatRec% <u> </u>
11. Ceiling type and insulation level		g) Other	
a) Under attic	11a. <u>30.0</u>	16. HVAC credits claimed (Performance Method)	
b) Single assembly	11b. <u> </u>	a) Ceiling fans	<u> </u>
c) Knee walls/skylight walls	11c. <u> </u>	b) Cross ventilation	<u>No</u>
d) Radiant barrier installed	11d. <u>No</u>	c) Whole house fan	<u>No</u>
		d) Multizone cooling credit	<u> </u>
		e) Multizone heating credit	<u> </u>
		f) Programmable thermostat	<u>Yes</u>

*Label required by Section R303.1.3 of the Florida Building Code, Energy Conservation, if not DEFAULT.

I certify that this home has complied with the Florida Building Code, Energy Conservation, 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: Stanley Crawford Date: 05-03-2019

Address of New Home: 7131 SE CR 245 City/FL Zip: LAKECITY, FL

- ☐ **R403.10.5 Heat pump pool heaters.** Heat pump pool heaters shall have a minimum COP of 4.0 when tested in accordance with AHRI 1160, Table 2, Standard Rating Conditions-Low Air Temperature. A test report from an independent laboratory is required to verify procedure compliance. Geothermal swimming pool heat pumps are not required to meet this standard.
- ☐ **R403.11 Portable spas (Mandatory).** The energy consumption of electric-powered portable spas shall be controlled by the requirements of APSP-14.

SECTION R404

ELECTRICAL POWER AND LIGHTING SYSTEMS

- ☐ **R404.1 Lighting equipment (Mandatory).** Not less than 75 percent of the lamps in permanently installed lighting fixtures shall be high-efficacy lamps or not less than 75 percent of the permanently installed lighting fixtures shall contain only high-efficacy lamps.
Exception: Low-voltage lighting.
- R404.1.1 Lighting equipment (Mandatory).** Fuel gas lighting systems shall not have continuously burning pilot lights.

2017 - AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA

**TABLE 402.4.1.1
AIR BARRIER AND INSULATION INSPECTION COMPONENT CRITERIA**

Project Name: New Project TODD Street: 7131 SE CR 245 City, State, Zip: LAKECITY , FL , Owner: Design Location: FL, Gainesville			Builder Name: Stanley Crawford Const. Inc. Permit Office: Permit Number: Jurisdiction:	CHECK
COMPONENT	AIR BARRIER CRITERIA	INSULATION INSTALLATION CRITERIA		
General requirements	A continuous air barrier shall be installed in the building envelope. The exterior thermal envelope contains a continuous air barrier. Breaks or joints in the air barrier shall be sealed.	Air-permeable insulation shall not be used as a sealing material.		
Ceiling/attic	The air barrier in any dropped ceiling/soffit shall be aligned with the insulation and any gaps in the air barrier shall be sealed. Access openings, drop down stairs or knee wall doors to unconditioned attic spaces shall be sealed.	The insulation in any dropped ceiling/soffit shall be aligned with the air barrier.		
Walls	The junction of the foundation and sill plate shall be sealed. The junction of the top plate and the top of exterior walls shall be sealed. Knee walls shall be sealed.	Cavities within corners and headers of frame walls shall be insulated by completely filling the cavity with a material having a thermal resistance of R-3 per inch minimum. Exterior thermal envelope insulation for framed walls shall be installed in substantial contact and continuous alignment with the air barrier.		
Windows, skylights and doors	The space between window/door jambs and framing, and skylights and framing shall be sealed.			
Rim joists	Rim joists shall include the air barrier.	Rim joists shall be insulated.		
Floors (including above-garage and cantilevered floors)	The air barrier shall be installed at any exposed edge of insulation.	Floor framing cavity insulation shall be installed to maintain permanent contact with the underside of subfloor decking, or floor framing cavity insulation shall be permitted to be in contact with the top side of sheathing, or continuous insulation installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.		
Crawl space walls	Exposed earth in unvented crawl spaces shall be covered with a Class I vapor retarder with overlapping joints taped.	Where provided instead of floor insulation, insulation shall be permanently attached to the crawlspace		
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 drywall.	Recessed light fixtures installed in the building thermal envelope shall be air tight and IC rated.		
Plumbing and wiring		Batt insulation shall be cut neatly to fit around wiring and plumbing in exterior walls, or insulation that on installation readily conforms to available space shall extend behind piping and wiring.		
Shower/tub on exterior wall	The air barrier installed at exterior walls adjacent to showers and tubs shall separate them from the showers and tubs.	Exterior walls adjacent to showers and tubs shall be insulated.		
Electrical/phone box on exterior walls	The air barrier shall be installed behind electrical or communication boxes or air-sealed boxes shall be installed.			
HVAC register boots	HVAC register boots that penetrate building thermal envelope shall be sealed to the sub-floor or drywall.			
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 Building Code, Energy Conservation, 6th Edition (2017)

Mandatory Requirements for Residential Performance, Prescriptive and ERI Methods

ADDRESS: 7131 SE CR 245
LAKECITY, FL,

Permit Number:

MANDATORY REQUIREMENTS See individual code sections for full details.



SECTION R401 GENERAL

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

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

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

- ☐ **R402.4.1 Building thermal envelope.** The building thermal envelope shall comply with Sections R402.4.1.1 and R402.4.1.2. The sealing methods between dissimilar materials shall allow for differential expansion and contraction.

- ☐ **R402.4.1.1 Installation.** The components of the building thermal envelope as listed in Table R402.4.1.1 shall be installed in accordance with the manufacturer's instructions and the criteria listed in Table R402.4.1.1, as applicable to the method of construction. Where required by the code official, an approved third party shall inspect all components and verify compliance.

- ☐ **R402.4.1.2 Testing.** The building or dwelling unit shall be tested and verified as having an air leakage rate not exceeding seven air changes per hour in Climate Zones 1 and 2, and three air changes per hour in Climate Zones 3 through 8. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g) or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

Exception: Testing is not required for additions, alterations, renovations, or repairs, of the building thermal envelope of existing buildings in which the new construction is less than 85 percent of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, backdraft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

- ☐ **R402.4.2 Fireplaces.** New wood-burning fireplaces shall have tight-fitting flue dampers or doors, and outdoor combustion air. Where using tight-fitting doors on factory-built fireplaces listed and labeled in accordance with UL 127, the doors shall be tested and listed for the fireplace. Where using tight-fitting doors on masonry fireplaces, the doors shall be listed and labeled in accordance with UL 907.

- ☐ **R402.4.3 Fenestration air leakage.** Windows, skylights and sliding glass doors shall have an air infiltration rate of no more than 0.3 cfm per square foot (1.5 L/s/m²), and swinging doors no more than 0.5 cfm per square foot (2.6 L/s/m²), when tested according to NFRC 400 or AAMA/WDMA/CSA 101/I.S.2/A440 by an accredited, independent laboratory and listed and labeled by the manufacturer.

Exception: Site-built windows, skylights and doors.

MANDATORY REQUIREMENTS - (Continued)

- ☐ **R403.5.5 Heat traps (Mandatory).** Storage water heaters not equipped with integral heat traps and having vertical pipe risers shall have heat traps installed on both the inlets and outlets. External heat traps shall consist of either a commercially available heat trap or a downward and upward bend of at least 3 1/4 inches (89 mm) in the hot water distribution line and cold water line located as close as possible to the storage tank.
- R403.5.6 Water heater efficiencies (Mandatory).**
- ☐ **R403.5.6.1.1 Automatic controls.** Service water-heating systems shall be equipped with automatic temperature controls capable of adjustment from the lowest to the highest acceptable temperature settings for the intended use. The minimum temperature setting range shall be from 100°F to 140°F (38°C to 60°C).
- ☐ **R403.5.6.1.2 Shut down.** A separate switch or a clearly marked circuit breaker shall be provided to permit the power supplied to electric service systems to be turned off. A separate valve shall be provided to permit the energy supplied to the main burner(s) of combustion types of service water-heating systems to be turned off.
- ☐ **R403.5.6.2 Water-heating equipment.** Water-heating equipment installed in residential units shall meet the minimum efficiencies of Table C404.2 in Chapter 4 of the Florida Building Code, Energy Conservation, Commercial Provisions, for the type of equipment installed. Equipment used to provide heating functions as part of a combination system shall satisfy all stated requirements for the appropriate water-heating category. Solar water heaters shall meet the criteria of Section R403.5.6.2.1.
- ☐ **R403.5.6.2.1 Solar water-heating systems.** Solar systems for domestic hot water production are rated by the annual solar energy factor of the system. The solar energy factor of a system shall be determined from the Florida Solar Energy Center Directory of Certified Solar Systems. Solar collectors shall be tested in accordance with ISO Standard 9806, Test Methods for Solar Collectors, and SRCC Standard TM-1, Solar Domestic Hot Water System and Component Test Protocol. Collectors in installed solar water-heating systems should meet the following criteria:
1. Be installed with a tilt angle between 10 degrees and 40 degrees of the horizontal; and
 2. Be installed at an orientation within 45 degrees of true south.
- ☐ **R403.6 Mechanical ventilation (Mandatory).** The building shall be provided with ventilation that meets the requirements of the Florida Building Code, Residential, or Florida Building Code, Mechanical, as applicable, or with other approved means of ventilation including: Natural, Infiltration or Mechanical means. Outdoor air intakes and exhausts shall have automatic or gravity dampers that close when the ventilation system is not operating.
- ☐ **R403.6.1 Whole-house mechanical ventilation system fan efficacy.** When installed to function as a whole-house mechanical ventilation system, fans shall meet the efficacy requirements of Table R403.6.1.
- Exception:** Where whole-house mechanical ventilation fans are integral to tested and listed HVAC equipment, they shall be powered by an electronically commutated motor.
- ☐ **R403.6.2 Ventilation air.** Residential buildings designed to be operated at a positive indoor pressure or for mechanical ventilation shall meet the following criteria:
1. The design air change per hour minimums for residential buildings in ASHRAE 62.2, Ventilation for Acceptable Indoor Air Quality, shall be the maximum rates allowed for residential applications.
 2. No ventilation or air-conditioning system make-up air shall be provided to conditioned space from attics, crawlspaces, attached enclosed garages or outdoor spaces adjacent to swimming pools or spas.
 3. If ventilation air is drawn from enclosed space(s), then the walls of the space(s) from which air is drawn shall be insulated to a minimum of R-11 and the ceiling shall be insulated to a minimum of R-19, space permitting, or R-10 otherwise.
- R403.7 Heating and cooling equipment (Mandatory).**
- ☐ **R403.7.1 Equipment sizing.** Heating and cooling equipment shall be sized in accordance with ACCA Manual S based on the equipment loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies, based on building loads for the directional orientation of the building. The manufacturer and model number of the outdoor and indoor units (if split system) shall be submitted along with the sensible and total cooling capacities at the design conditions described in Section R302.1. This Code does not allow designer safety factors, provisions for future expansion or other factors that affect equipment sizing. System sizing calculations shall not include loads created by local intermittent mechanical ventilation such as standard kitchen and bathroom exhaust systems. New or replacement heating and cooling equipment shall have an efficiency rating equal to or greater than the minimum required by federal law for the geographic location where the equipment is installed.

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

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

For SI: 1 cfm = 28.3 L/min.

a. When tested in accordance with HVI Standard 916

Envelope Leakage Test Report (Blower Door Test)
Residential Prescriptive, Performance or ERI Method Compliance
2017 Florida Building Code, Energy Conservation, 6th Edition

Jurisdiction: _____

Permit #: _____

Job Information

Builder: Stanley Crawford Const. Inc. Community: _____

Lot: NA

Address: 7131 SE CR 245

City: LAKECITY

State: FL

Zip: _____

Air Leakage Test Results *Passing results must meet either the Performance, Prescriptive, or ERI Method*

☐ **PRESCRIPTIVE METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding 7 air changes per hour at a pressure of 0.2 inch w.g. (50 Pascals) in Climate Zones 1 and 2.

☐ **PERFORMANCE or ERI METHOD**-The building or dwelling unit shall be tested and verified as having an air leakage rate of not exceeding the selected ACH(50) value, as shown on Form R405-2017 (Performance) or R406-2017 (ERI), section labeled as infiltration, sub-section ACH50.
ACH(50) specified on Form R405-2017-Energy Calc (Performance) or R406-2017 (ERI): 5.000

$$\frac{\text{CFM}(50)}{\text{Building Volume}} \times 60 \div \frac{24462}{\text{ACH}(50)} = \text{ACH}(50)$$

☒ **PASS**

☐ When ACH(50) is less than 3, Mechanical Ventilation installation must be verified by building department.

Method for calculating building volume:

☐ Retrieved from architectural plans

☒ Code software calculated

☐ Field measured and calculated

R402.4.1.2 Testing. Testing shall be conducted in accordance with ANSI/RESNET/ICC 380 and reported at a pressure of 0.2 inch w.g. (50 Pascals). Testing shall be conducted by either individuals as defined in Section 553.993(5) or (7), *Florida Statutes*, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i) or an approved third party. A written report of the results of the test shall be signed by the party conducting the test and provided to the code official. Testing shall be performed at any time after creation of all penetrations of the building thermal envelope.

During testing:

1. Exterior windows and doors, fireplace and stove doors shall be closed, but not sealed, beyond the intended weatherstripping or other infiltration control measures.
2. Dampers including exhaust, intake, makeup air, back draft and flue dampers shall be closed, but not sealed beyond intended infiltration control measures.
3. Interior doors, if installed at the time of the test, shall be open.
4. Exterior doors for continuous ventilation systems and heat recovery ventilators shall be closed and sealed.
5. Heating and cooling systems, if installed at the time of the test, shall be turned off.
6. Supply and return registers, if installed at the time of the test, shall be fully open.

Testing Company

Company Name: _____ Phone: _____

I hereby verify that the above Air Leakage results are in accordance with the 2017 6th Edition Florida Building Code Energy Conservation requirements according to the compliance method selected above.

Signature of Tester: _____ Date of Test: _____

Printed Name of Tester: _____

License/Certification #: _____ Issuing Authority: _____

Project Information

For: Todd Residence, Stanley Crawford Construction
Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified Average
Outside db (°F)	33	92	Method	
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN; JANITROL; AMANA DIST...
Model GSZ140491K
AHRI ref 7995031

Efficiency 8.5 HSPF
Heating input 47000 Btuh @ 47°F
Heating output 0 °F
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 21 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade GOODMAN; JANITROL; AMANA DIST...
Cond GSZ140491K
Coil ARUF61D14A
AHRI ref 7995031

Efficiency 12.0 EER, 14 SEER
Sensible cooling 31150 Btuh
Latent cooling 13350 Btuh
Total cooling 44500 Btuh
Actual air flow 1483 cfm
Air flow factor 0.044 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.87

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Level 1	1080	17742	19669	0	874
Level 2	1033	9937	16090	0	715
AH1	2113	27679	33356	0	1483
Other equip loads		0	0		
Equip. @ 1.00 RSM			33356		
Latent cooling			4891		
TOTALS	2113	27679	38247	0	1483

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

Project Information

For: Todd Residence, Stanley Crawford Construction
Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		

HEATING EQUIPMENT

Make Goodman Mfg.
Trade
Model GSZ140181K*
AHRI ref 8566978

Efficiency 8.2 HSPF
Heating input
Heating output 17200 Btuh @ 47°F
Temperature rise 29 °F
Actual air flow 547 cfm
Air flow factor 0.064 cfm/Btuh
Static pressure 0.50 in H2O
Space thermostat
Capacity balance point = 17 °F

COOLING EQUIPMENT

Make Goodman Mfg.
Trade
Cond GSZ140181K*
Coil CF035SGEB++TXV+TDR
AHRI ref 8566978

Efficiency 11.0 EER, 14 SEER
Sensible cooling 11480 Btuh
Latent cooling 4920 Btuh
Total cooling 16400 Btuh
Actual air flow 547 cfm
Air flow factor 0.052 cfm/Btuh
Static pressure 0.50 in H2O
Load sensible heat ratio 0.86

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
Level 3	605	8532	10931	547	568
AH2	605	8532	10530	547	547
Other equip loads		0	0		
Equip. @ 1.00 RSM			10530		
Latent cooling			1748		
TOTALS	605	8532	12279	547	547

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

Project Information

For: Todd Residence, Stanley Crawford Construction
Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		

HEATING EQUIPMENT

Make n/a
 Trade n/a
 Model n/a
 AHRI ref n/a
 Efficiency n/a
 Heating input 0 Btuh
 Heating output 0 °F
 Temperature rise 0 cfm
 Actual air flow 0 cfm/Btuh
 Air flow factor 0 in H2O
 Static pressure n/a
 Space thermostat n/a

COOLING EQUIPMENT

Make n/a
 Trade n/a
 Cond n/a
 Coil n/a
 AHRI ref n/a
 Efficiency n/a
 Sensible cooling 0 Btuh
 Latent cooling 0 Btuh
 Total cooling 0 Btuh
 Actual air flow 0 cfm
 Air flow factor 0 cfm/Btuh
 Static pressure 0 in H2O
 Load sensible heat ratio 0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
G RM	268	4149	4815	0	214
Study	189	3551	4115	0	183
Bath	63	667	191	0	8
CC	19	0	0	0	0
Utility	26	0	0	0	0
Foyer	77	1820	1822	0	81
Laund	63	1933	1337	0	59
Kit	196	2283	3638	0	162
Dining	125	3338	3752	0	167
Up	55	0	0	0	0

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

Level 1	1080	17742	19669	0	874
Other equip loads		0	0		
Equip. @ 1.00 RSM			19669		
Latent cooling			2122		
TOTALS	1080	17742	21791	0	874

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



Project Information

For: Todd Residence, Stanley Crawford Construction
Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		

HEATING EQUIPMENT

Make n/a
Trade n/a
Model n/a
AHRI ref n/a

Efficiency n/a
Heating input
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat n/a

COOLING EQUIPMENT

Make n/a
Trade n/a
Cond n/a
Coil n/a
AHRI ref n/a

Efficiency n/a
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bd2	167	2211	3611	0	161
WIC	44	0	0	0	0
Mbd	235	2593	4651	0	207
m bth	76	1430	1289	0	57
Pwdr	63	168	496	0	22
c2	39	0	0	0	0
In	5	0	0	0	0
wc	41	658	786	0	35
W I C	25	0	0	0	0
c	17	0	0	0	0
bd3	157	2044	3708	0	165
C3	16	0	0	0	0
hall	138	834	1549	0	69
ch	11	0	0	0	0

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



Level 2	1033	9937	16090	0	715
Other equip loads		0	0		
Equip. @ 1.00 RSM			16090		
Latent cooling			3245		
TOTALS	1033	9937	19335	0	715

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

Project Information

For: Todd Residence, Stanley Crawford Construction
Lake City, FL

Design Information

	Htg	Clg	Infiltration	Simplified
Outside db (°F)	33	92	Method	Average
Inside db (°F)	70	75	Construction quality	
Design TD (°F)	37	17	Fireplaces	0
Daily range	-	M		
Inside humidity (%)	50	50		
Moisture difference (gr/lb)	32	47		

HEATING EQUIPMENT

Make n/a
Trade n/a
Model n/a
AHRI ref n/a

Efficiency n/a
Heating input
Heating output 0 Btuh
Temperature rise 0 °F
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Space thermostat n/a

COOLING EQUIPMENT

Make n/a
Trade n/a
Cond n/a
Coil n/a
AHRI ref n/a
Efficiency n/a
Sensible cooling 0 Btuh
Latent cooling 0 Btuh
Total cooling 0 Btuh
Actual air flow 0 cfm
Air flow factor 0 cfm/Btuh
Static pressure 0 in H2O
Load sensible heat ratio 0

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
bath 3	61	1276	1481	82	77
hall 3	126	1326	1681	85	87
c4	18	0	0	0	0
Bd4	184	3026	3934	194	204
ac	11	0	0	0	0
c5	18	0	0	0	0
Bd5	187	2904	3835	186	199

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

Level 3	605	8532	10931	547	568
Other equip loads		0	0		
Equip. @ 1.00 RSM			10931		
Latent cooling			1748		
TOTALS	605	8532	12679	547	568

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

Laund
☒ 59 cfm

☒ 162 cfm
Kit

Dining
☒ 167 cfm

Bath ☒ 8 cfm

Up
☐ Utility

☒ 107 cfm

☐ 875 cfm

CC

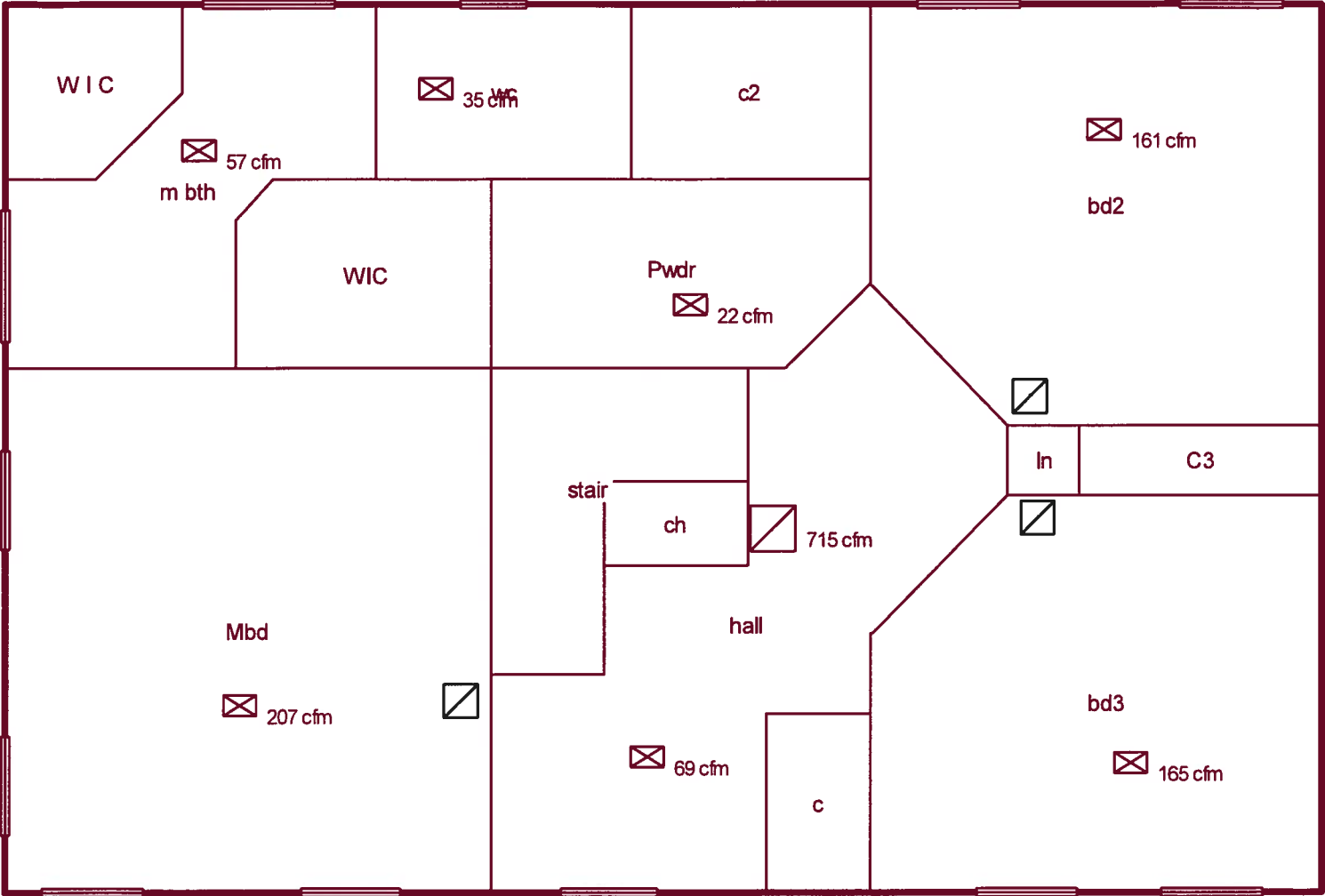
G RM

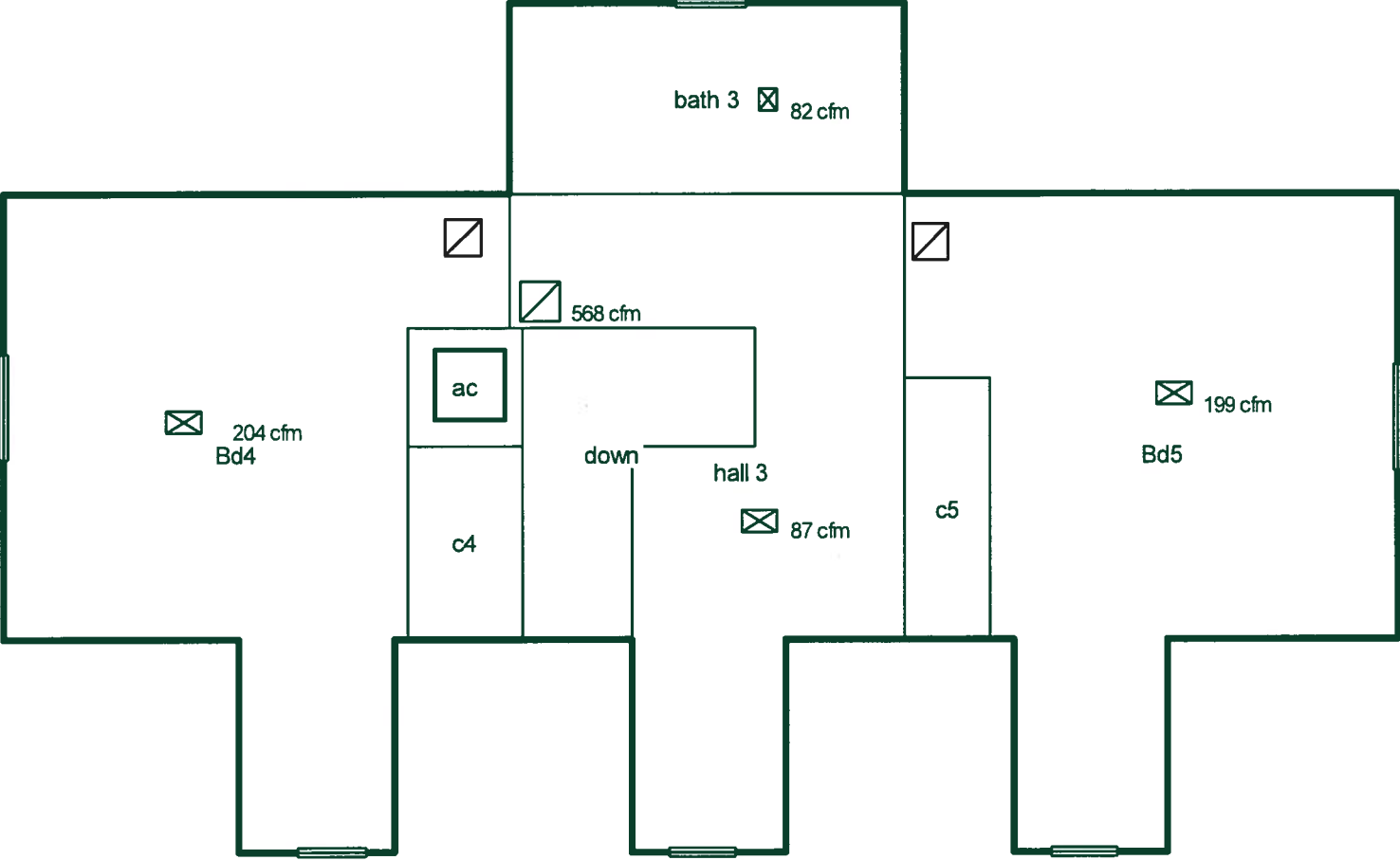
Study
☒ 91 cfm ☒ 91 cfm

☒ 81 cfm

☒ 107 cfm

Foyer







Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: Todd - Todd

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: SCCI Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

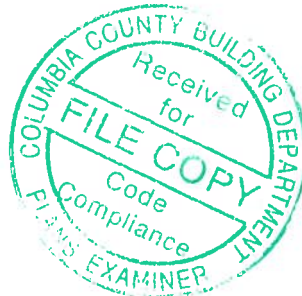
Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 12 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T16998237	A1GE1	5/8/19
2	T16998238	A2	5/8/19
3	T16998239	A3	5/8/19
4	T16998240	A4	5/8/19
5	T16998241	A5	5/8/19
6	T16998242	F01	5/8/19
7	T16998243	F02	5/8/19
8	T16998244	F03	5/8/19
9	T16998245	F04	5/8/19
10	T16998246	F05	5/8/19
11	T16998247	F06	5/8/19
12	T16998248	F07	5/8/19



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

My license renewal date for the state of Florida is February 28, 2021.

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8, 2019

Job	Truss	Truss Type	Qty	Ply	Todd	T16998237
Todd	A1GE1	GABLE	2	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8:220 s Aug 13 2018 Print: 8:220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:45 2019 Page 1
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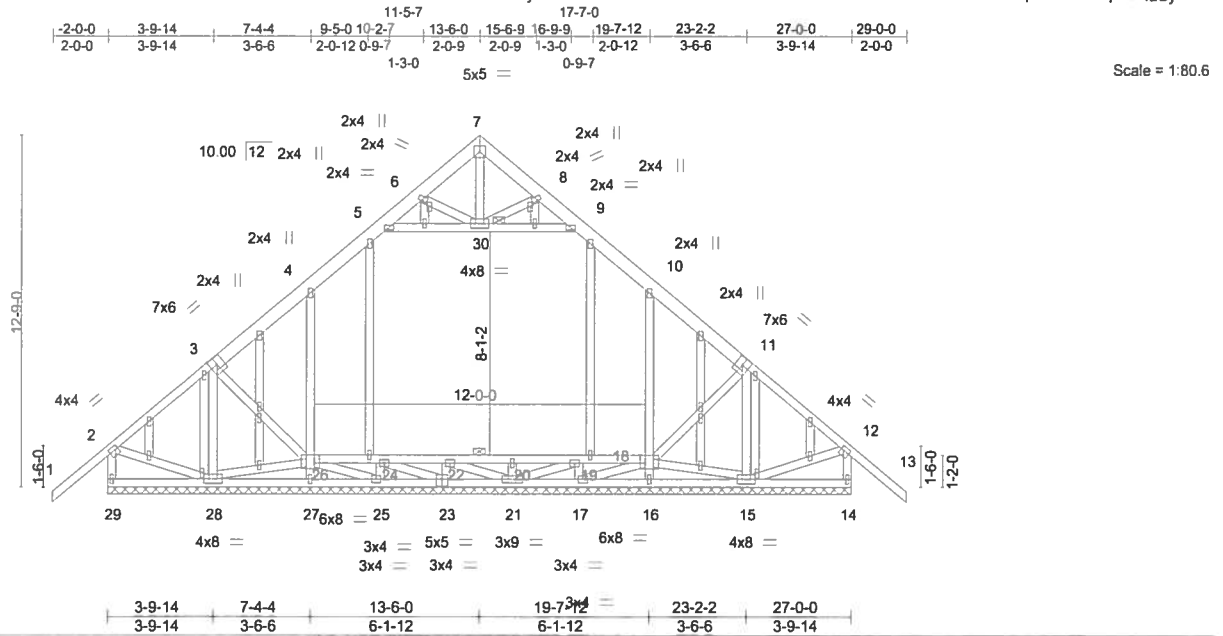


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [3:0-3-0,0-3-4], [6:0-1-9,0-0-12], [8:0-1-9,0-0-12], [11:0-3-0,0-3-4], [12:0-1-0,0-1-12], [15:0-2-0,0-0-2], [18:0-2-4,Edge], [23:0-2-8,0-3-0], [26:0-2-4,Edge], [28:0-2-0,0-0-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.32	Vert(LL)	-0.03	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.05	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S					Weight: 305 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,11-13: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 28-29,14-15.
OTHERS 2x4 SP No.2	10-0-0 oc bracing: 18-26
REACTIONS. All bearings 27-0-0.	JOINTS 1 Brace at Jt(s): 30
(lb) - Max Horz 29=295(LC 10)	
Max Uplift All uplift 100 lb or less at joint(s) 29, 27, 14	
Max Grav All reactions 250 lb or less at joint(s) 23, 25, 21, 17 except 29=551(LC 1), 16=379(LC 19), 15=390(LC 1), 27=402(LC 18), 28=390(LC 1), 14=551(LC 1)	

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-374/9, 3-4=-516/39, 4-5=-543/153, 5-6=-368/94, 6-7=-271/82, 7-8=-271/82, 8-9=-368/93, 9-10=-543/152, 10-11=-515/39, 11-12=-364/11, 2-29=-519/114, 12-14=-519/112
BOT CHORD 28-29=-270/272
WEBS 16-18=-338/104, 10-18=-355/134, 11-15=-423/30, 26-27=-347/110, 4-26=-360/134, 3-28=-423/27, 2-28=-4/284, 12-15=0/270

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCp=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 9-30; Wall dead load (5.0psf) on member(s).10-18, 4-26
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 27, 14.
- Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev 10/03/2015 BEFORE USE

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998238
Todd	A2	ATTIC	8	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8/22/2018 8:22:05 AM Print: 8/22/2019 12:11:46 PM Mitek Industries, Inc. Wed May 8 12:11:46 2019 Page 1
ID: dycPXTAEP48JleNZN3Cw?zicnl-ZWn?O4TiKmJEh4R3s0_RWQ1Hd?yoFwzBDAZUPlaSx

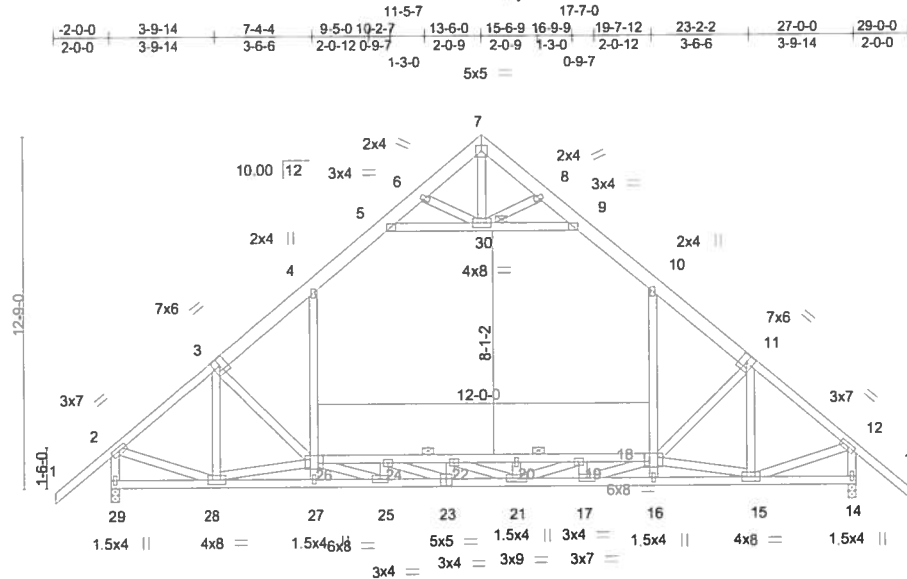


Plate Offsets (X,Y) [2:0-3-5,0-1-8], [3:0-3-0,0-3-4], [11:0-3-0,0-3-4], [12:0-3-5,0-1-8], [18:0-2-4,Edge], [23:0-2-8,0-3-0], [26:0-2-4,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.59	Vert(LL)	-0.20 20-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.37 20-22	>860	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.04 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.09 18-26	1576	360	Weight: 251 lb	FT = 0%

LUMBER-

TOP CHORD 2x6 SP SS *Except*
1-3,11-13: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 28-29,14-15.
4-4-0 oc bracing: 18-26
JOINTS 1 Brace at Jt(s): 30

REACTIONS.

(lb/size) 29=1502/0-3-8, 14=1502/0-3-8
Max Horz 29=-295(LC 10)
Max Grav 29=1744(LC 18), 14=1744(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1662/0, 3-4=-1975/0, 4-5=-1286/101, 5-6=0/571, 6-7=0/354, 7-8=0/354, 8-9=0/572,
9-10=-1295/101, 10-11=-1990/0, 11-12=-1662/0, 2-29=-1708/76, 12-14=-1707/76
BOT CHORD 28-29=-271/267, 27-28=-159/962, 25-27=-193/945, 23-25=0/2214, 21-23=0/2768,
17-21=0/2083, 16-17=-70/927, 15-16=-50/929, 24-26=-840/18, 22-24=-1564/0,
20-22=-1642/0, 19-20=-1642/0, 18-19=-879/61
WEBS 10-18=0/998, 11-15=-646/0, 5-30=-2094/0, 9-30=-2115/0, 4-26=0/1000, 3-28=-627/0,
7-30=-468/0, 2-28=0/1349, 12-15=0/1352, 24-25=-590/0, 22-23=-266/0, 20-21=-264/0,
17-19=-593/0, 25-26=0/1761, 23-24=0/846, 19-21=0/931, 17-18=0/1757, 26-28=-5/954,
15-18=-97/1014, 6-30=0/633, 8-30=0/642

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 9-30; Wall dead load (5.0psf) on member(s).10-18, 4-26
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 19-20, 18-19
- 7) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



Julius Lee PE No.34869
Mitek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:49 2019 Page 1
ID:dvscPXTAEP48JleNZN3Cw7zlcnl-z5S805VbdhhpYY9dY8X872finD3BSE0dw8o80dzlaSu



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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Safety Information: available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job	Truss	Truss Type	Qty	Ply	Todd	T16998239
Todd	A3	ATTIC	4	2	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run 8.220 s Aug 13 2018 Print: 8.220 s Mar 22 2019 Mitek Industries, Inc. Wed May 8 12:11:49 2019 Page 2
ID:dyscPXTAEP48JleNZN3Cw7zlcnl-z5S805VbdhpyYY9dY8X872finD3BSE0dw8o80dzlaSu

NOTES-

- 6) Unbalanced roof live loads have been considered for this design.
- 7) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-31, 9-31; Wall dead load (5.0psf) on member(s). 10-18, 4-26
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 19-20, 18-19
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-120, 6-7=-120, 7-9=-120, 9-10=-140, 10-12=-120, 12-13=-120, 27-30=-100, 14-27=-40, 18-26=-60, 5-9=-20

Drag: 10-18=-20, 4-26=-20

Trapezoidal Loads (plf)

Vert: 2=-349(F=-135)-to-4=-296(F=-135), 4=-316(F=-135)-to-5=-297(F=-135), 5=-277(F=-135)-to-6=-267(F=-135)



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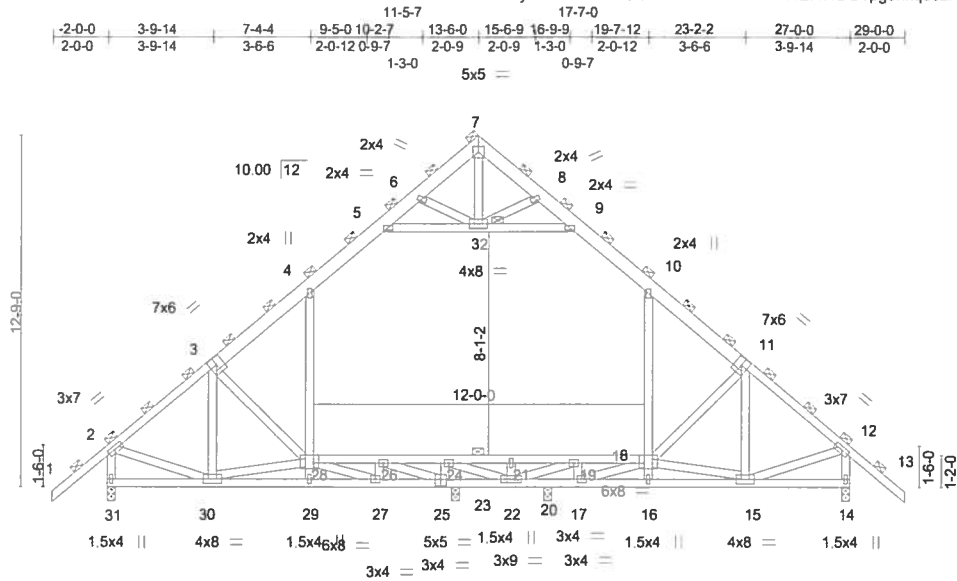


6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998240
Todd	A4	ATTIC	1	3		

Mayo Truss, Mayo, FL

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12 11 50 2019 Page 1
ID: dysscPXTAEP48JleNZN3Cw7zlcnl-RIOWERWDO?pg9hkq5s2NgFC11cOEBphn8oXhY4zlaSt



Job	Truss	Truss Type	Qty	Ply	Todd	T16998240
Todd	A4	ATTIC	1	3	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:51 2019 Page 2
ID: dyscPXTAEP48JleNZN3Cw7zlcnl-vUauRnXr9JxXnrJ0fZacDTiCm0kTwFXwNSHF4WzlaSs

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 915 lb down and 78 lb up at 13-6-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-150, 2-4=-150, 4-5=-175, 5-7=-150, 7-9=-150, 9-10=-175, 10-12=-150, 12-13=-150, 14-31=-50, 18-28=-75, 5-9=-25

Drag: 10-18=-25, 4-28=-25

Concentrated Loads (lb)

Vert: 7=-500(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd
Tampa, FL 36610

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:52 2019 Page 1
ID:dyscPXTAEP48JleNZN3Cw7zlcnl-Ng8Ge7XTvc3OP?uCDH5rHgHJbQ2yiefk4c60ocyZlaSr

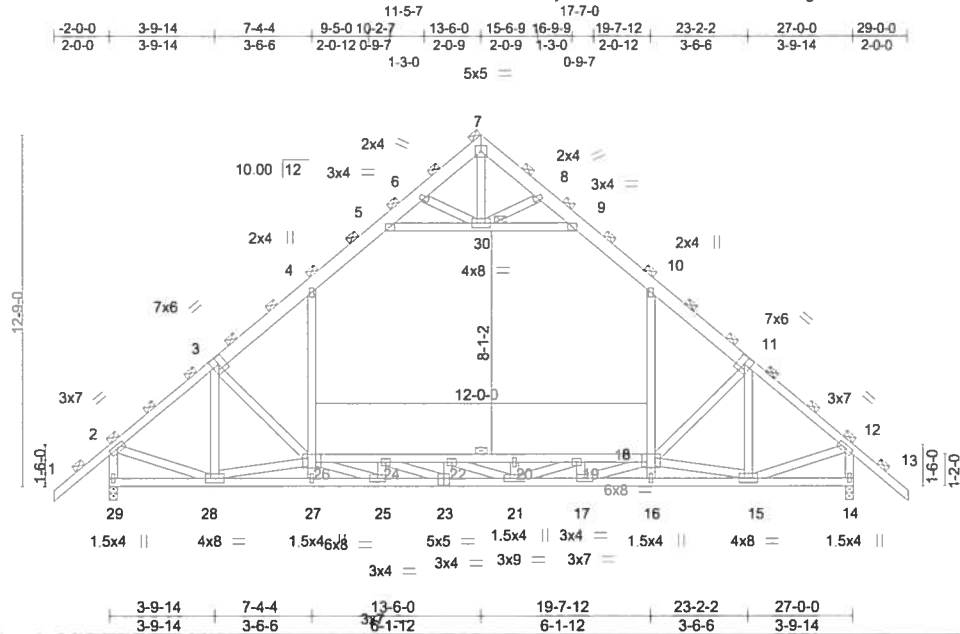


Plate Offsets (X,Y)-- [2:0-3-5,0-1-8], [3:0-3-0,0-3-4], [11:0-3-0,0-3-4], [12:0-3-5,0-1-8], [18:0-2-4,Edge], [23:0-2-8,0-3-0], [26:0-2-4,Edge]

LOADING (psf)	SPACING-	5-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	-0.16 20-22	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	-0.31 20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.03 14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-MS	Attic	-0.07 18-26	1921	360	Weight: 752 lb	FT = 0%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP SS *Except* 1-3,11-13: 2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.), except end verticals (Switched from sheeted; Spacing > 2-8-0).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 28-29,14-15.
WEBS	2x4 SP No.2		6-0-0 oc bracing: 18-26 1 Brace at Jt(s): 7, 30, 2, 12
		JOINTS	


REACTIONS. (lb/size) 29=4004/0-3-8, 14=4004/0-3-8
Max Horz 29=-737(LC 10)
Max Grav 29=4817(LC 18), 14=4794(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4648/0, 3-4=-5537/0, 4-5=-3858/310, 5-6=-185/825, 6-7=-318/343, 7-8=-318/343,
8-9=-183/828, 9-10=-3915/311, 10-11=-5606/0, 11-12=-4626/0, 2-29=-4725/229,
12-14=-4699/229

BOT CHORD 28-29=-673/670, 27-28=-332/2632, 25-27=-402/2588, 23-25=0/5767, 21-23=0/7148,
17-21=0/5425, 16-17=-181/2441, 15-16=-142/2447, 24-26=-1863/193, 22-24=-3686/0,
20-22=-3895/0, 19-20=-3895/0, 18-19=-1939/248

WEBS 16-18=0/390, 10-18=0/2434, 11-18=-283/522, 11-15=-1791/0, 5-30=-5160/0,
9-30=-5211/0, 26-27=0/390, 4-26=0/2441, 3-26=-285/483, 3-28=-1734/0, 7-30=-1161/0,
2-28=0/3744, 12-15=0/3773, 24-25=-1476/0, 22-23=-667/0, 20-21=-666/0, 17-19=-1485/0,
25-26=0/4407, 23-24=0/2110, 21-22=-395/561, 19-21=0/2344, 17-18=0/4392,
26-28=0/2532, 15-18=-186/2696, 6-30=0/1567, 8-30=0/1589

The seal of the U.S. Census Bureau is located in the bottom right corner. It features a circular design with the words "U.S. CENSUS BUREAU" around the perimeter and a central emblem.

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; B=45ft; L=27ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 9-30; Wall dead load (5.0psf) on member(s).10-18, 4-26
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 24-26, 22-24, 20-22, 19-20, 18-19
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

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Julius Lee PE No. 34869
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8, 2019



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998241
Todd	A5	ATTIC	1	3	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 Mitek Industries, Inc. Wed May 8 12 11:52 2019 Page 2
ID: dycSPXTAEP48JleNZN3Cw7zlcnl-Ng8Ge7XTvc3OP7uCDH5rigHJbQ2yfeK4c60ocyZlaSr

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 915 lb down and 78 lb up at 13'-6" on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-150, 2-4=-150, 4-5=-175, 5-7=-150, 7-9=-150, 9-10=-175, 10-12=-150, 12-13=-150, 14-29=-50, 18-26=-75, 5-9=-25

Drag: 10-18=-25, 4-26=-25

Concentrated Loads (lb)

Vert: 7=-500(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998242
Todd	F01	GABLE	2	1	Job Reference (optional)	

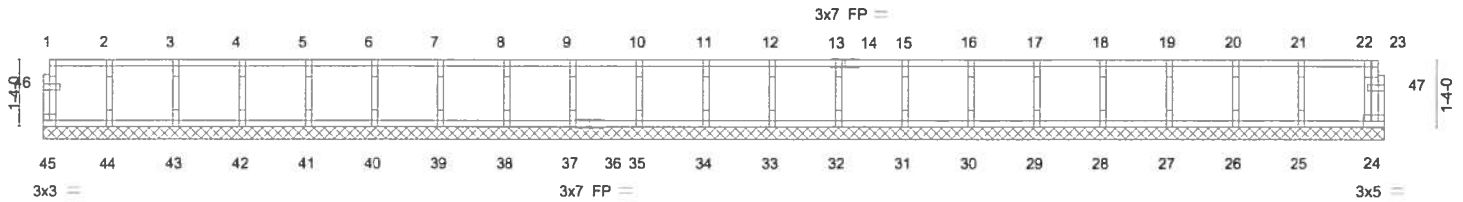
Mayo Truss, Mayo, FL

Run 8:220 s Aug 13 2018 Print: 8:220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:53 2019 Page 1
ID: dycsPXTAEP48JleNZN3Cw?zlcnl-rsiesTY5gwCF19TPn_c4luqblqZBOB9DrmmM9OziaSq

0-1-8

0-1-8

Scale = 1.44.7



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-8-0	16-0-0	17-4-0	18-8-0	20-0-0	21-4-0	22-8-0	24-0-0	25-4-0	26-8-0	27-0-0
Plate Offsets (X,Y)	[1:Edge,0-0-12], [46:0-1-8,0-0-12], [47:0-1-8,0-0-12]																			

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	24	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-R						Weight: 118 lb	FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)
OTHERS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 27-0-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 45, 24, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) All plates are 1.5x4 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998243
Todd	F02	Floor	21	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

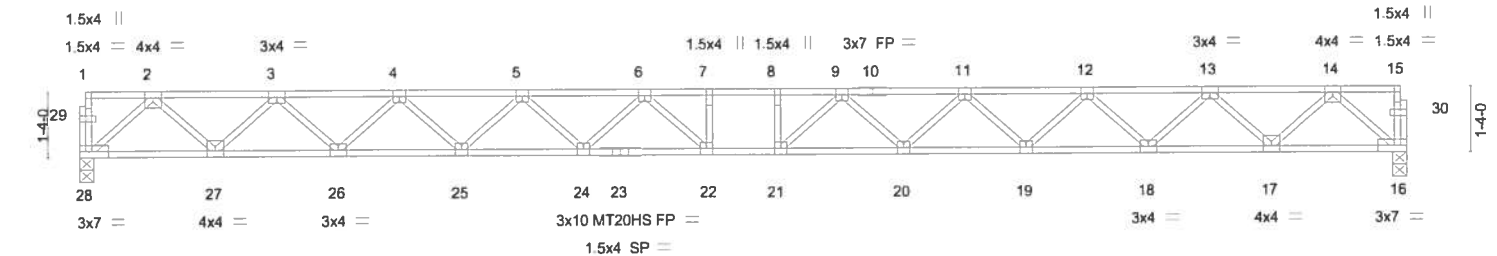
Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:54 2019 Page 1
ID:dyscPXTAEP48JleNZN3Cw?zlcni-K3G13pZkREK6eJ2bKi7Jq5Nb2Eg77Zem3QVvhrzlaSp

0-1-8



0-1-8

Scale = 1.45.3



2-9-0 2-9-0	5-3-0 2-6-0	7-9-0 2-6-0	10-3-0 2-6-0	16-9-0 6-6-0	19-3-0 2-6-0	21-9-0 2-6-0	24-3-0 2-6-0	27-0-0 2-9-0
Plate Offsets (X,Y) = [1:Edge,0-0-12], [29:0-1-8,0-0-12], [30:0-1-8,0-0-12]								

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.82	Vert(LL)	-0.77	21-22	>418	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 1.00	Vert(CT)	-1.06	21-22	>304	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.14	16	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-S						
Weight: 138 lb									FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 22-24,21-22,20-21.

REACTIONS. (lb/size) 28=977/0-3-8, 16=977/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1901/0, 3-4=-3339/0, 4-5=-4398/0, 5-6=-5075/0, 6-7=-5401/0, 7-8=-5401/0, 8-9=-5401/0, 9-10=-5075/0, 10-11=-5075/0, 11-12=-4398/0, 12-13=-3339/0, 13-14=-1901/0
BOT CHORD 27-28=0/1074, 26-27=0/2709, 25-26=0/3953, 24-25=0/4826, 23-24=0/5307, 22-23=0/5307, 21-22=0/5401, 20-21=0/5307, 19-20=0/4826, 18-19=0/3953, 17-18=0/2709, 16-17=0/1074
WEBS 14-16=-1428/0, 2-28=-1428/0, 14-17=0/1151, 2-27=0/1151, 13-17=-1124/0, 3-27=-1124/0, 13-18=0/876, 3-26=0/876, 12-18=-854/0, 4-26=-854/0, 12-19=0/618, 4-25=0/618, 11-19=-595/0, 5-25=-595/0, 11-20=0/369, 5-24=0/369, 9-20=-386/0, 6-24=-386/0, 9-21=-226/454, 6-22=-226/454

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x3 MT20 unless otherwise indicated.
- Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev 10/03/2015 BEFORE USE

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998244
Todd	F03	Floor	3	1		

Mayo Truss, Mayo, Fl

Run 8.220 s Aug 13 2018 Print 8.220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:54 2019 Page 1
ID: dycspXTAEP48JleNZN3Cw7zlcnl-K3G13pZkREK6eJ2bK7Jq5NmLEus7e?M3QVvhrzlaSp

0-1-8

1-3-0

1-0-8

Scale = 1:12.3

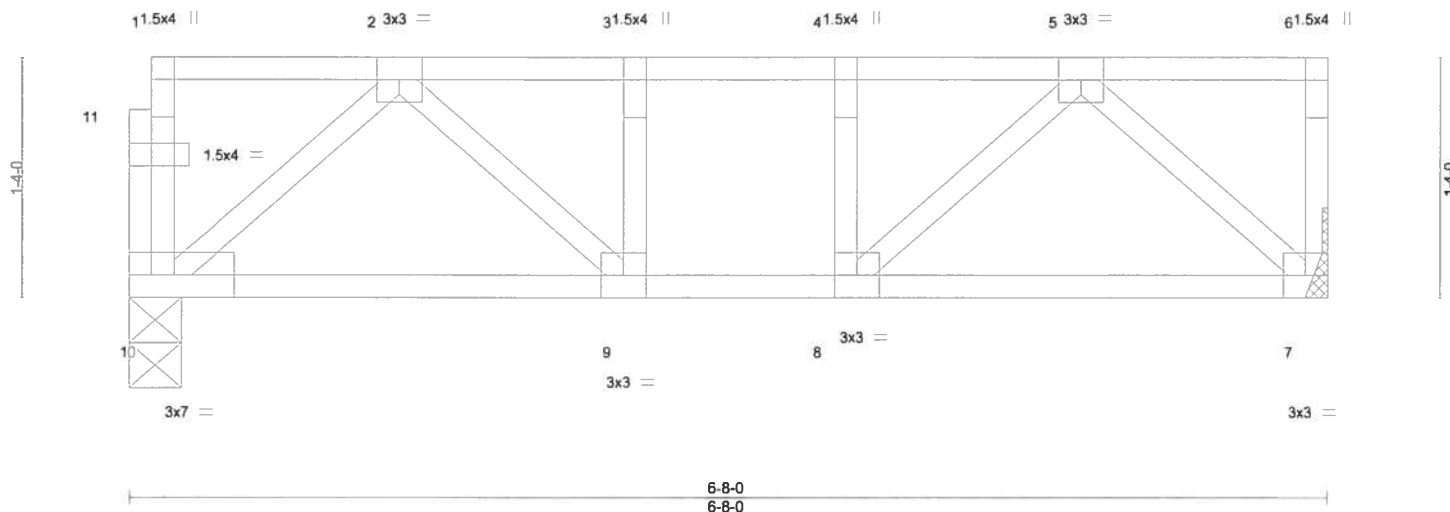


Plate Offsets (X,Y)- [1:Edge,0-0-12], [11:0-1-8,0-0-12]

LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.10	Vert(LL)	-0.01	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.12	Vert(CT)	-0.01	9-10	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	7	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014		Matrix-S						Weight: 37 lb	FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=233/0-3-8, 7=238/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-316/0, 3-4=-316/0, 4-5=-316/0
BOT CHORD 8-9=0/316
WEBS 5-7=-288/0, 2-10=-289/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
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Date:

May 8,2019

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998245
Todd	F04	Floor	9	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8 220 s Aug 13 2018 Print: 8 220 s Mar 22 2019 MiTek Industries, Inc. Wed May 8 12:11:55 2019 Page 1
ID:dyscPXTAEP48JieNZN3Cw7zlcnl-oFpPH9aMCXSzGTdnuPeYNJw0dC8s4XWl4FSDHzaSo

1-3-0

0-6-0

0-1-8

Scale = 1:18.5

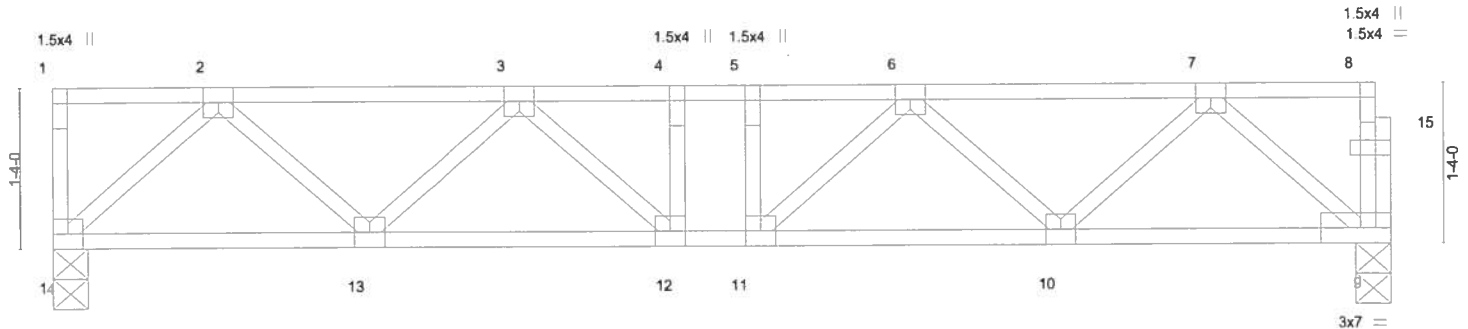


Plate Offsets (X,Y)-	2-7-8 2-7-8	8-4-8 5-9-0	11-1-8 2-9-0
	[1:Edge,0-0-12], [15:0-1-8,0-0-12]		

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL)	-0.03	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.25	Vert(CT)	-0.04	11	>999	240		
BCLL 0.0	Rep Stress Incr YES	WB 0.09	Horz(CT)	0.01	9	n/a	n/a		
BCDL 5.0	Code FBC2017/TPI2014	Matrix-S						Weight: 60 lb	FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 9=397/0-3-8, 14=401/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-633/0, 3-4=-903/0, 4-5=-903/0, 5-6=-903/0, 6-7=-644/0
BOT CHORD 13-14=0/403, 12-13=0/844, 11-12=0/903, 10-11=0/850, 9-10=0/419
WEBS 7-9=-556/0, 2-14=-548/0, 7-10=0/314, 2-13=0/320, 6-10=-285/0, 3-13=-292/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 MT20 unless otherwise indicated.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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Date:

May 8, 2019

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998246
Todd	F05	Floor	6	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8/22/2018 8:13:20 AM Print: 8/22/2019 8:12:11 AM MiTek Industries, Inc. Wed May 8 12:11:55 2019 Page 1
ID: dycscPXTAEP48JleNZN3Cw7zlcnl-oFpPH9aMCXSzGTdnuPeYNJvuzd8Ys45WI4FSDHzaSo

0-1-8

1-3-0

0-11-8

Scale = 1:21.4

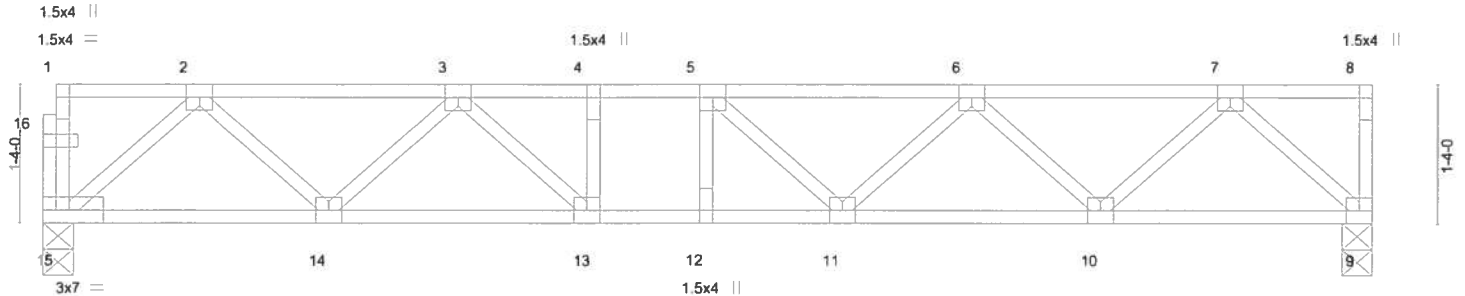


Plate Offsets (X,Y) - [1:Edge,0-0-12], [16:0-1-8,0-0-12]		2-9-0 2-9-0		7-8-8 4-11-8		10-2-8 2-6-0		12-10-0 2-7-8	
LOADING (psf)	SPACING-	1-4-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.26	Vert(LL)	-0.05 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.48	Vert(CT)	-0.07 11-12	>999	240		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02 9	n/a	n/a		
BCDL 5.0	Code	FBC2017/TPI2014	Matrix-S					Weight: 68 lb	FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 15=460/0-3-8, 9=464/0-3-8

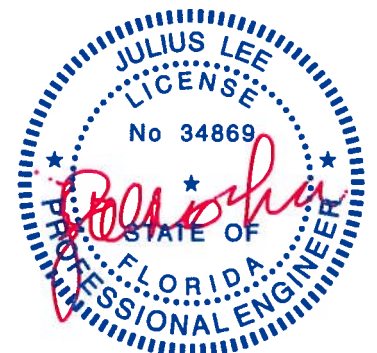
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-776/0, 3-4=-1200/0, 4-5=-1200/0, 5-6=-1144/0, 6-7=-769/0
BOT CHORD 14-15=0/489, 13-14=0/1052, 12-13=0/1200, 11-12=0/1200, 10-11=0/1054, 9-10=0/467
WEBS 7-9=-634/0, 2-15=-649/0, 7-10=0/421, 2-14=0/399, 6-10=-397/0, 3-14=-384/0, 3-13=0/293

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Todd	T16998248
Todd	F07	Floor	8	1	Job Reference (optional)	

Mayo Truss, Mayo, FL

Run: 8/22/2018 8:22:05 AM Print: 8/22/2019 8:12:11 AM MiTek Industries, Inc. Wed May 8 12:11:56 2019 Page 1
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0-1-8

1-3-0

0-6-0

Scale = 1:18.5

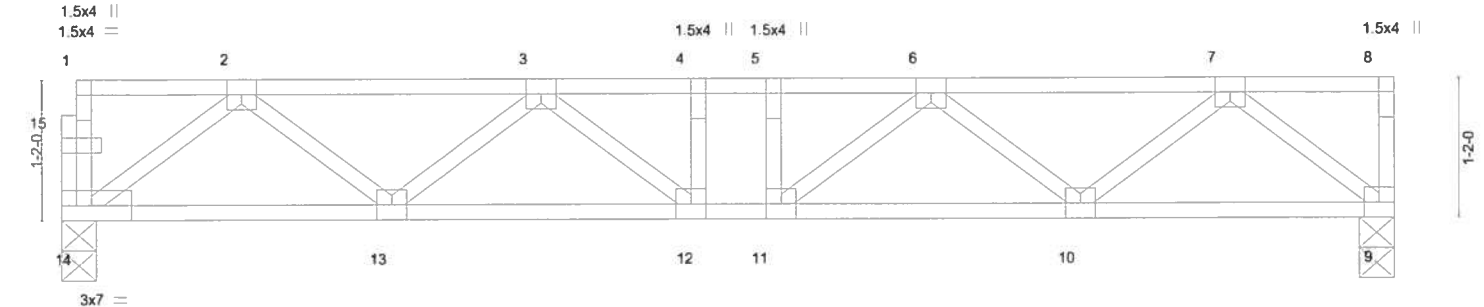


Plate Offsets (X,Y) -	[1:Edge,0-0-12], [15:0-1-8,0-0-12]	8-6-0 5-9-0	11-1-8 2-7-8
-----------------------	------------------------------------	----------------	-----------------

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.17	Vert(LL)	-0.03	12	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.29	Vert(CT)	-0.05	12	>999		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT)	0.01	9	n/a		
BCDL 5.0	Code FBC2017/TPI2014	Matrix-S					Weight: 58 lb	FT = 0%F, 0%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.2(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=397/0-3-8, 9=401/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-747/0, 3-4=-1046/0, 4-5=-1046/0, 5-6=-1046/0, 6-7=-734/0
BOT CHORD 13-14=0/485, 12-13=0/984, 11-12=0/1046, 10-11=0/977, 9-10=0/467
WEBS 7-9=-597/0, 2-14=-607/0, 7-10=0/347, 2-13=0/340, 6-10=-317/0, 3-13=-310/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x3 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Julius Lee PE No.34869
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

May 8,2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd
Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

