

June 15, 2022

Franklin Structures, LLC 10655 Hwy 43, South Russellville, AL 35653

RE: MFT-10886-8015-70-3-32-2-FL NTA JOB NUMBER: FH060622-51

Dear Ms. Christie Jackson,

The referenced manufactured building has been reviewed and approved. ICC NTA LLC certifies this plan is in compliance with 2020 Florida Codes – 7th Edition w/2021 Supplement as referenced in the approved drawings. This approval covers the factory build structure only. Any alterations to the factory-built structure, on site, voids the approval. This plan is subject to the following limitations:

- 1. This plan is NOT approved for High Velocity Hurricane Zone (i.e. Broward and Dade Counties).
- 2. Signed and sealed plans are on file with ICC NTA, LLC
- 3. The Chapter 633 Plan Review and Inspection shall be conducted by the local fire safety inspector.
- 4. Items installed on site are subject to review and approval by the local authority having jurisdiction. Please reference the list of site installed items on the approved plans.
- 5. This review included products for compliance with 553.8425 or FAC Chapter 61G20-3.

If you have any additional questions or comments regarding this matter, please contact me at your convenience at (574) 773-7975.

Respectfully,

Michael Faller

Michael Faller SMP-056 Account Manager ICC-NTA LLC

Notes:

- 1. These plans comply with the:
- 7th Edition (2020) w/ 2021 Supplement
- 7th Edition (2020)Energy Conservation w/2021 Supplement 2017 National Electrical Code.
- 2. These plans comply with Rule 61G20-3.006 for product approval.
- 3. The raised seal set (or electronic sealed set) of plans are on file in the third agency's office as directed by DBPR.
- 4. This building is subject to review and approval of the fire inspector on site with compliance with Chapter 633 Fire Safety Code.
- 5. The manufacturer's data sheet and the state (DBPR) insignia are permanently mounted to or about the electrical panel.
- 6. This building has been designed for erection or installation on a site built permanent foundation and is not designed to be moved once so erected or installed.





 DATE
 6/15/2022
 CERT. NO SMP-056

 PLAN NUMBER
 MFT10886-8015-70-3-32-2

 APPROVED BY
 Michael Faller

This building has not been designed or approved for placement in high VELOCITY HURRICANE ZONES (HVHZ), (I.E. DADE AND BROWARD COUNTIES)

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TYPICAL OFF-FRAME CROSS SECTION	7	of 7
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<u>Notes:</u>

- 9. Vult wind speed = EXPOSURE-C AT Vult=130 MPH & Vasd = 101MPH
- 10. RISK CATEGORY=II
- 11. Building Mean Roof Height 20'
- 12. Roof live load = 20 psf
- 13. Floor live load = 40 psf
- 14. Seismic Zone = A, B or C
- 15. Building Category = Type 5B, Unprotected, Wood Construction.
- 16. Use Group = Single Family Dwelling
- 17. Roof Interior (zone 1) = +18.9/-36.1sf
- 18. Roof Exterior (zone 2) = +18.9/-57.5sf
- 19. Roof Corner (zone 3) = +18.9/-81.1 psf
- 20. Wall Interior (zone 4) = +25.3/-27.5psf
- 21. Wall Exterior (zone 5) = +25.3/33.9 psf
- 22. ROOF OVERHANG(Zone 1) = -46.8 psf.
- 23. ROOF OVERHANG(Zone 2) = -68.2 psf.
- 24. ROOF OVERHANG(Zone 2) = -104.7 psf.
- 25. Site address per FRC R319.1
- 26. Internal pressure coefficient = \pm 0.18 psf

COMPONENTS & CLADDING PRESSURES ARE SHOWN AS ALLOWABLE STRENGTH PRESSURES BASED ON ULTIMATE LOADS

SITE INSTALLED ITEMS

NOTE: THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION.

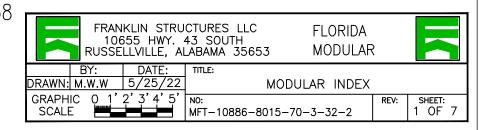
ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL BUILDING OFFICIAL REVIEW AND APPROVAL REQUIRING TO BE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE

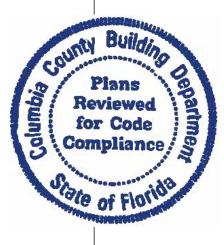
- 1) THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM
- 2) RAMPS, STAIRS, AND GENERAL ACCESS TO THE BUILDING
- 3) PORTABLE FIRE EXTINGUISHER(S)
- 4) BUILDING DRAINS, CLEAN OUTS AND HOOKUP TO PLUMBING SYSTEM
- 5) ELECTRICAL SERVICE HOOKUP, INCLUDING THE FEEDERS, TO THE BUILDING
- 6) THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS
- 7) CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATE LINES (MULTI-UNITS ONLY)
- 8) STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY)
- 9) ANY SITE FLASHING OR SHINGLES INSTALLED AT SITE REFER TO ARMA PUBLICATION "RESIDENTIAL ASPHALT ROOFING MANUAL", IN GUIDE LINES WITH FBC CODE
- 10) ALL FOUNDATION WORK WILL BE COMPLETED ON SITE. IS THE RESPONSIBILITY OF THE LOCAL CONTRACTOR AND IS SUBJECT TO LOCAL JURISDICTION.
- 11) MANDATORY BLOWER DOOR TEST MUST BE COMPLETED PER FLORIDA ENERGY CODE
- 12) MAIN DISCONNECT WILL BE INSTALLED ON-SITE AND SUBJECT TO LOCAL CODES
- 13) PROTECTION OF GLAZING FROM WINDBORNE DEBRIS

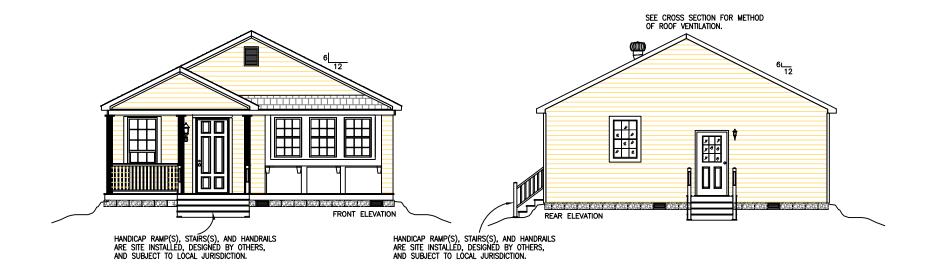
PHYSICAL ADDRESS

sw coyote cir

FORT WHITE FL, 32038 COLUMBIA COUNTY



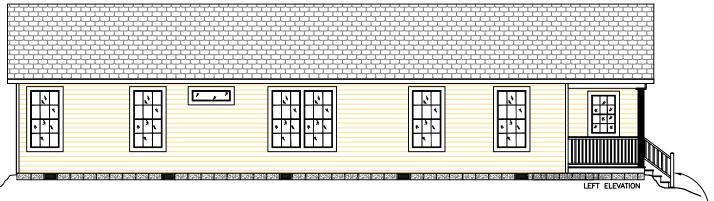




APPROVED BY

RIGHT ELEVATION HANDICAP RAMP(S), STAIRS(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

FOUNDATION ENCLOSURE (WHEN PROVIDED) MUST HAVE 1 SQUARE FOOT NET VENT AREA PER 150FT OF THE FLOOR AREA AND AN 18"x24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS. SUBJECT TO LOCAL JURISDICTION.



HANDICAP RAMP(S), STAIRS(S), AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS, AND SUBJECT TO LOCAL JURISDICTION.

Plan may be built Flip image (Front end to Rear end) or reverse image (top side to bottom side) without specific plan showing each arrangement using standard model approved

- EXTERIOR COVERING IS VINYL LAP SIDING WITH VINYL APPURTENANCES STANDARD.
 OTHER EXTERIOR COVERINGS SHALL CONFORM TO INTERNATIONAL BUILDING CODE. EXTERIOR COVERINGS FOR FRONT AND REAR ELEVATIONS ARE SUPPLIED BY FRANKLIN
- HOMES AND INSTALLED ON-SITE BY LOCAL CONTRACTOR.

 2. ROOF COVERING IS 240# FIBERGLASS SHINGLES. SHINGLES FOR RIDGE ARE SUPPLIED BY FRANKLIN HOMES, INSTALLED ON-SITE BY LOCAL CONTRACTOR.
- 3. WINDOWS ARE VINYL CLAD THERMOPANE.
- 4. MINIMUM ATTIC VENTILATION VIA CONTINUOUS VENTILATED SOFFIT & WHIRLY BIRD VENTS IS 6.61 SQ.FT PER 1983 SQ.FT. OF HOME DIVIDED BY 300 SQ.FT. OF CONTINUOUS
- 5. CRAWL SPACE VENTILATION SHALL CONFORM TO REQUIREMENTS OF 1/150 \(\) BY OTHERS\\ 6. FOUNDATIONS INSTALLED BY LOCAL CONTRACTOR PER LOCAL CODE REQUIREMENTS.
- 7. SHUTTERS SHOWN ARE NON-STRUCTURAL (AVAILABLE AS OPTION).

REVISION: BY: DATE: DRAWN: M.W.W. 6/1/22 GRAPHIC 0 1'2'3'4'5' SCALE

FRANKLIN HOMES, INC. 10655 HWY. 43 SOUTH RUSSELLVILLE, ALABAMA 35653

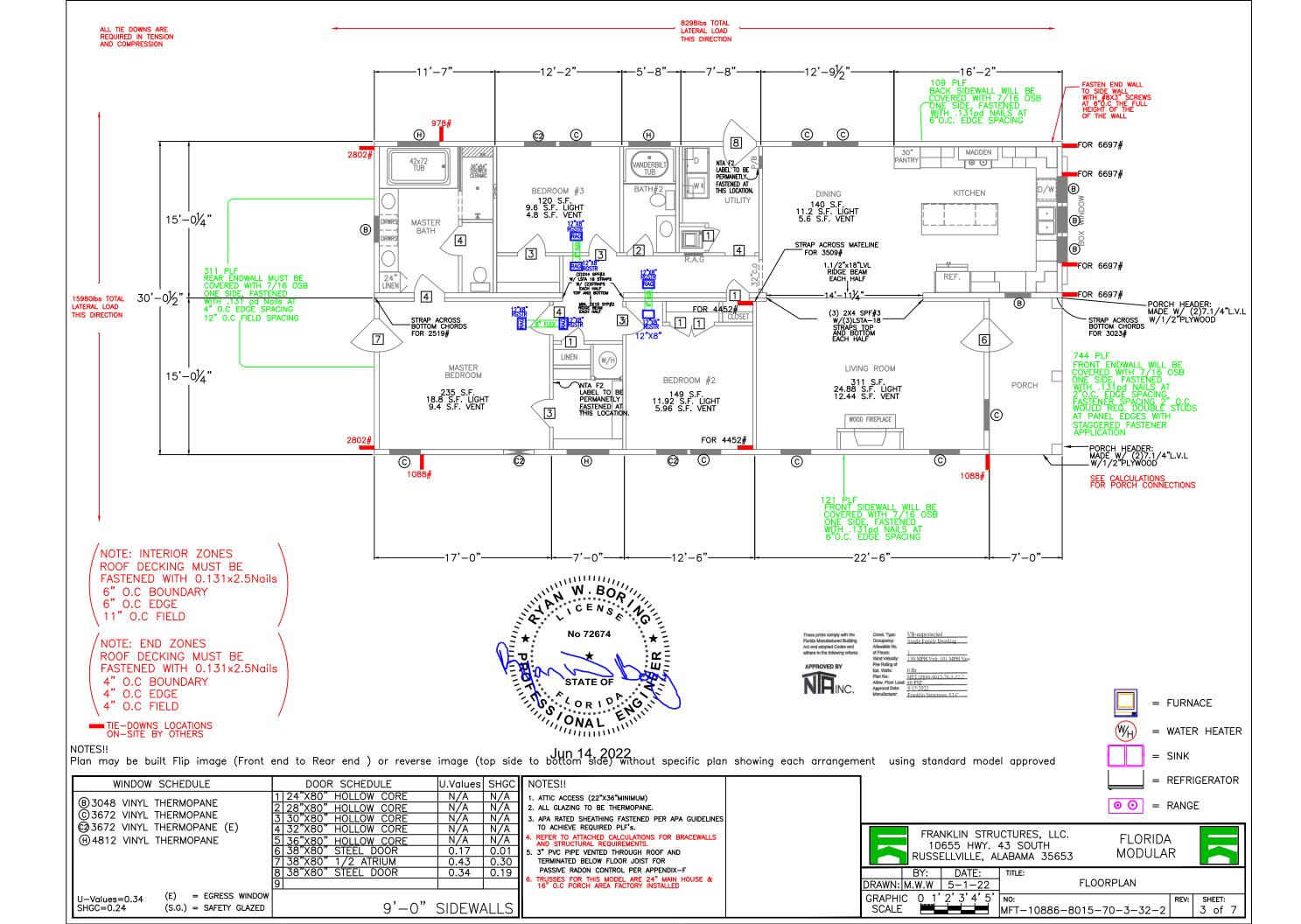
BY: DATE:

ELEVATIONS

ONAL

Jun 14, 2022

SHEET: 2 of 7 MFT-10886-8015-70-3-32-2



	15 AMP/AFI 15 AMP/AFI 15 AMP/AFI 15 AMP/AFI NOTE 1 20 AMP/AFI/GFI 20 AMP/AFI/GFI 20 AMP/AFI/GFI NOTE 2 30 AMP 40 AMP 15 AMP/AFI 15 AMP/AFI 15 AMP/AFI 40 AMP 30 AMP 2 NOTE 3/AFI/GFI	1 1 1	· .	41** 42** 43** 44** 51**	SMOKE DETECTORS GENERAL LIGHTING GENERAL LIGHTING GENERAL LIGHTING RANGE HOOD VENT GENERAL LIGHTING ELECTRIC FIREPLACE	20 AMP/AFI 1 20 AMP/GFI 1	WIRE 12-2 W/0 12-2 W/0 12-2 W/0 12-2 W/1 14-2 W/0
--	--	-----------------	-----	--------------------------------------	--	------------------------------	--

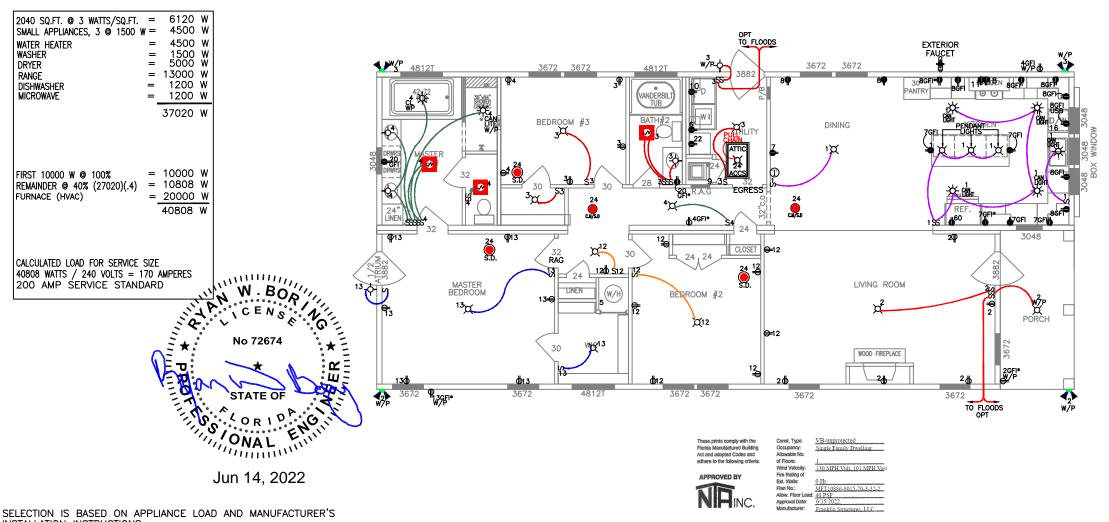
NOTE: ALL CIRCUITS MAY NOT BE USED, SEE APPROVAL DRAWINGS FOR SPECIFIC CIRCUITS



ALL CEILING BOXES MUST BE LISTED AS ABLE TO SUPPORT 50lbs.

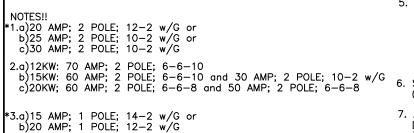
ALL RECEPTACLES MUST BE LISTED AS TAMPER RESISTANT

THIS HOME IS **BUILT FOR** THE 2017 NEC!!

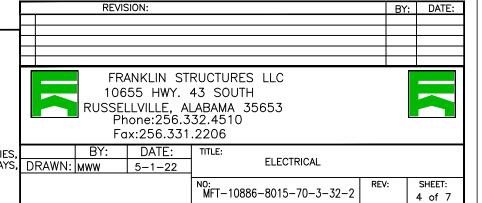


- * SELECTION IS BASED ON APPLIANCE LOAD AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ** GENERAL LIGHTING CIRCUITS MAY BE WIRED WITH 12-2 W/G AND 20 AMP BREAKERS

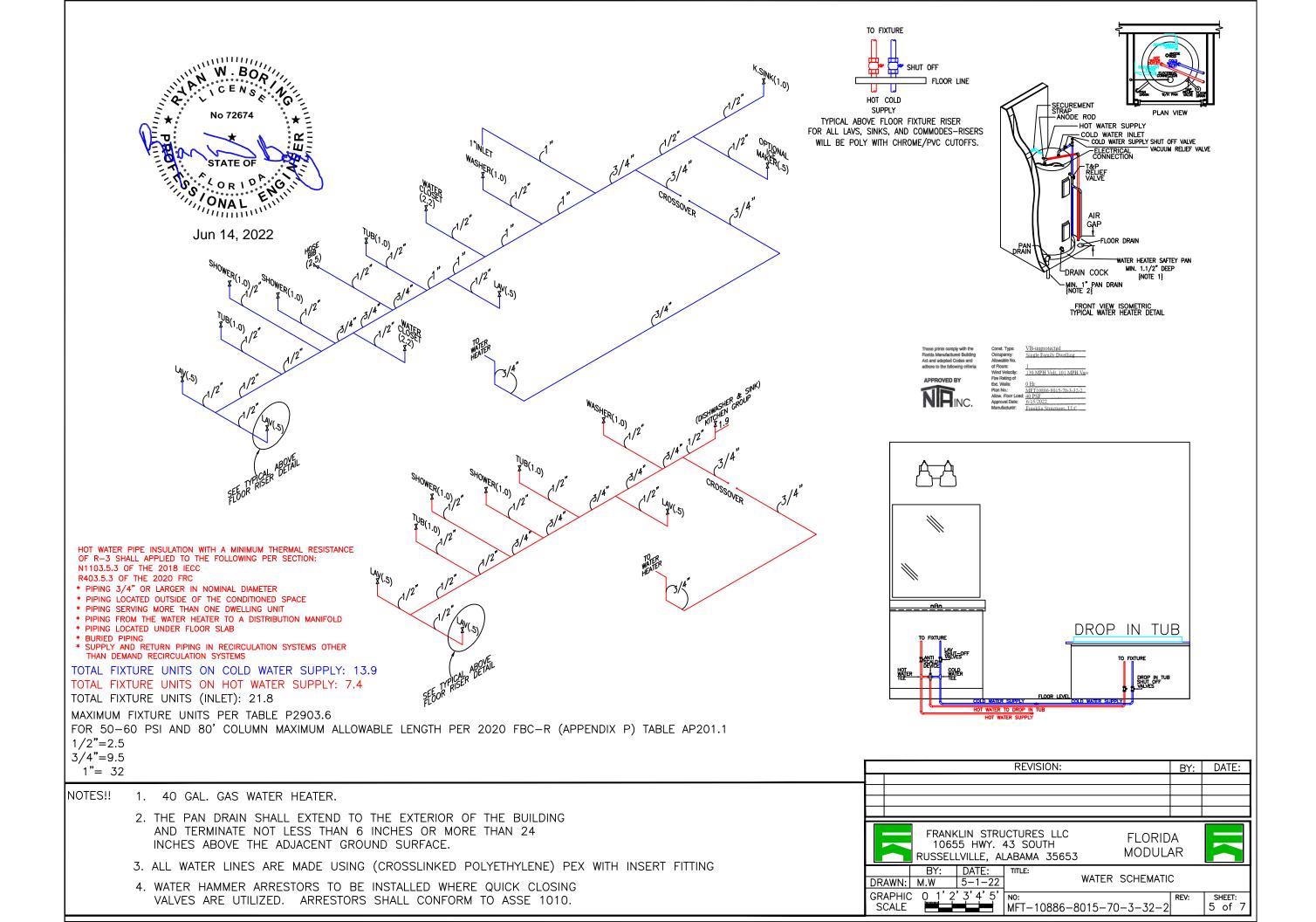
*4.a)15 AMP; GFI.; 1 POLE; 14-2 w/G or b)20 AMP; GFI.; 1 POLE; 12-2 w/G

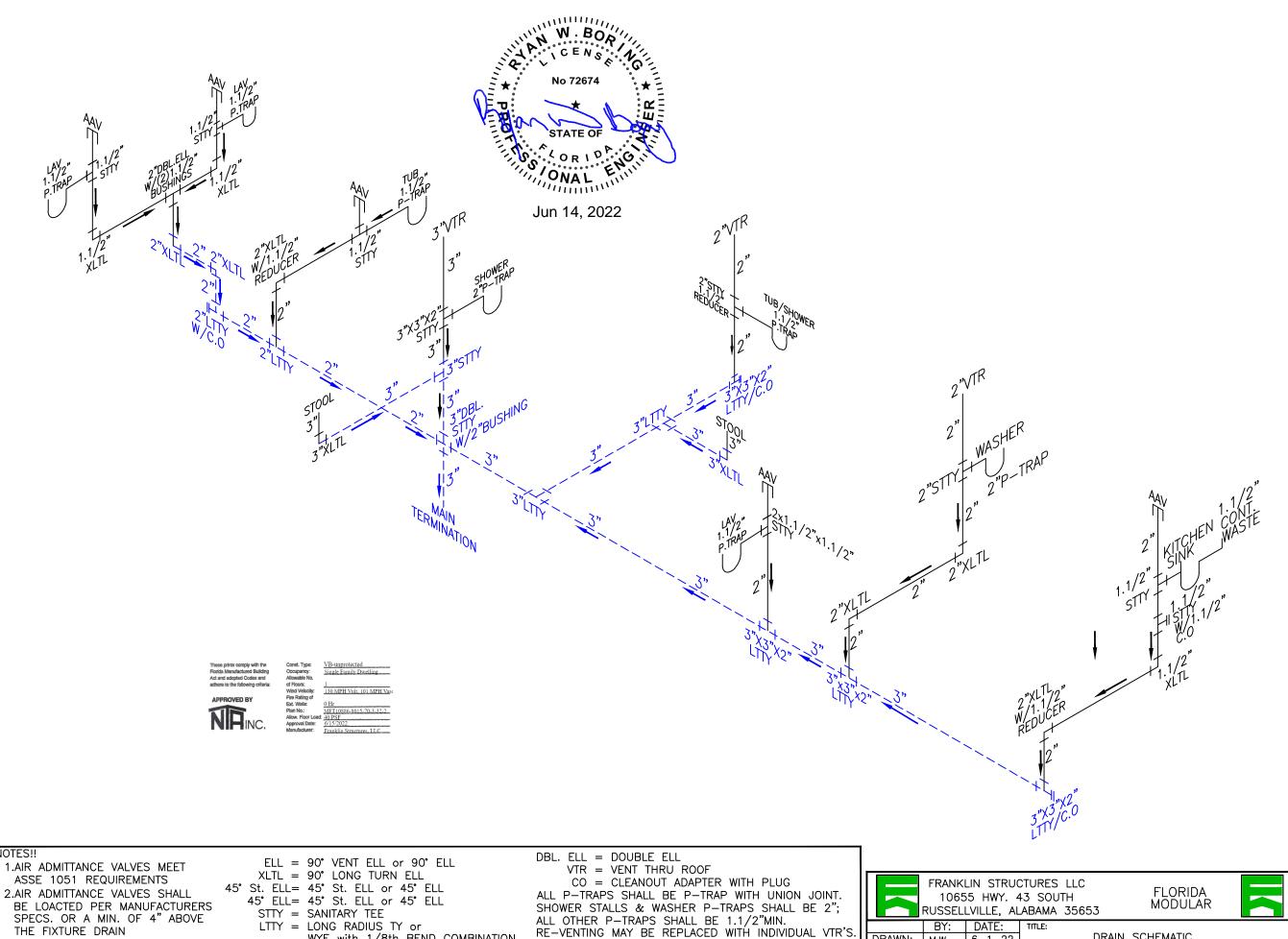


- 5. CIRCUIT NUMBERS SHOWN HERE ARE USED FOR IDENTIFICATION OF CIRCUITS SHOWN ON ELECTRICAL DIAGRAMS SUBMITTED FOR APPROVALS. CIRCUIT IDENTIFICATION IN THE DISTRIBUTION PANEL BOXES WILL BE ACCOMPLISHED BY DESCRIBING EACH CIRCUIT (EG. WATER HEATER, LIGHTING, ETC.). IT IS PREFERRED THAT CIRCUIT NUMBERS ON DISTRIBUTION PANEL MATCH THOSE SHOWN ON THIS CHART, BUT IT IS NOT A REQUIREMENT.
- SERVICE ENTRANCE WIRE SIZE IS (3)-#2/0 WITH (1)-#4 COPPER GROUND.
- 7. ALL FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATIONS ROOMS, CLOSET, HALLWAYS, KITCHEN, LAUNDRY OR SIMILAR AREAS MUST BE PROTECTED BY AN ARC—FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SEC. 210-12(b) OF THE NEC.



4 of 7





2.AIR ADMITTANCE VALVES SHALL
BE LOACTED PER MANUFACTURERS
SPECS. OR A MIN. OF 4" ABOVE
THE FIXTURE DRAIN

3.ALL DWV LINES ARE SCHEDULE 40 PVC.

WYE with 1/8th BEND COMBINATION

= FLOW DIRECTION

CO = CLEANOUT ADAPTER WITH PLUG ALL P-TRAPS SHALL BE P-TRAP WITH UNION JOINT. SHOWER STALLS & WASHER P-TRAPS SHALL BE 2"; ALL OTHER P-TRAPS SHALL BE 1.1/2"MIN.

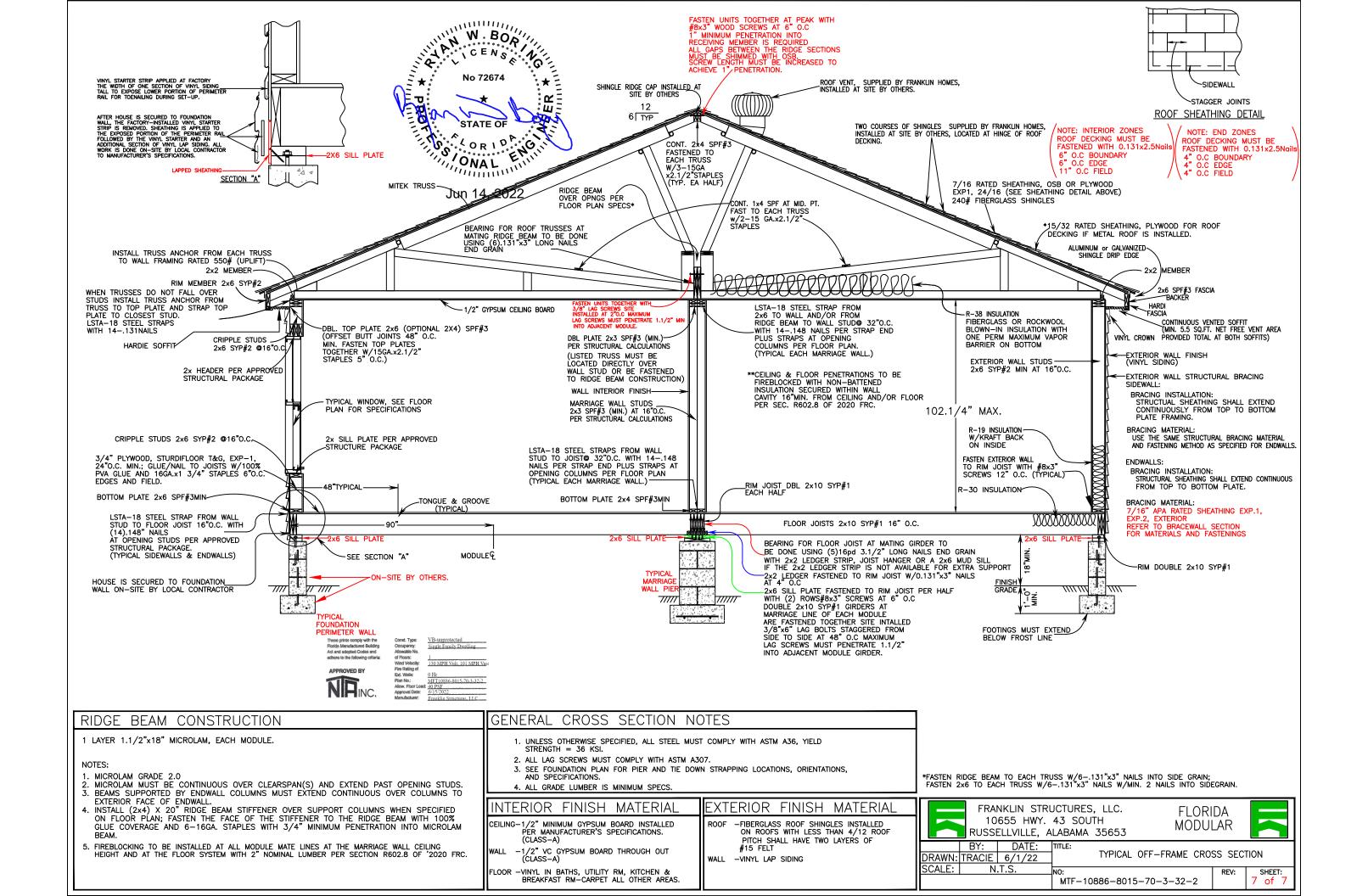
RE-VENTING MAY BE REPLACED WITH INDIVIDUAL VTR'S. = FIELD INSTALLED PLUMBING. ----- = PLUMBING VENTS IN THE CEILING

FRANKLIN STRUCTURES LLC
10655 HWY. 43 SOUTH
RUSSELLVILLE, ALABAMA 35653





BY: DATE: TITLE: DRAIN SCHEMATIC DRAWN: M.W 6-1-22 GRAPHIC SCALE SHEET: 6 of 7 MFT-10886-8015-70-3-32-2



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



const. Type:

VB-unprotected
company:

Single Family Dwelling
lowelle No.

Floors:

I 30 MPH Vult. 101 MPH
ten No.

Wells:

I WITLUSS6-8015-70-3-32-

Franklin Structures, LLC

MFT-10886-8015-70-3-32-2

Width: 30'- 1/2"

Length: 66'

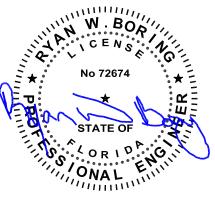
Roof Live Load: 20psf Roof LL

Wind Speeds: 130mph Vult

Wind Exposure: C

Wall Height: 9'

Max Mean Roof Height: 20'



Jun 14, 2022

Page	Description
1-4	Design Criteria and Load Cases (C&C page 1)
5	Matewall Headers
6-7	Matewall Columns
8	Sidewall Headers
9-10	Sidewall Columns (King & Jack)
11-12	Uplift Straps
13	Sill Plates and Lateral Only Sill/Header Connection
	(Sill must also be installed at top of window/door)
14-16	Shearwalls and Diaphragms
17-18	Connections
19	Floor Joist
20-21	Matewall Girders
22-23	Porch Headers, Columns, and Connections

NOTE:

- -These calculations are applicable only to the structural elements and loading criteria specifically noted herein.
- -Structural elements not contained herein are to be constructed in accordance with the prescriptive requirements of the adopted building code or designed by other registered design professionals.
- -Specified design criteria are based solely on information provided by the client and must be verified and approved by the LAHJ.
- -Ryan W. Boring, P.E. is not responsible for fabrication or erection.

ASCE 7-16 Chapter 30 Part I:

	Wind Speed:		135 MPH		Roof Style	o. Gable	(Gahl	e or Hip)		
	Wind Exposure:		C C		Roof Pitch		6 /12	c or riip)		
	Mean Roof Height:		20 FT		Roof Angle		26.6			
	Elevation:		0 FT		Max Width		30.04 ft			
	Ke:		1.00		iviax vviuti	١.	30.04 11			
	Kd:		0.85							
	Ku. Kzt:		0.83							
	kt:		0.90							
	qh:		35.77 psf							
	Building Type:		Enclosed							
	Gcpi:		0.18 -0.18							
	Min net pressure:		16 psf							
Roof GCP	Area	Po	s Neg		Pressure	Area	Pos	Neg		
Zone 1	Aica	Min	0.7	-1.5	Zone 1	Aica	Min	31.5	-60.1	
Zone 1		100	0.7	-1.1	20110 1		100	31.5	-45.8	
Zone 2		Min	0.7	-2.5	Zone 2		Min	31.5	-95.9	
ZOTIC Z		100	0.7	-1.4	Zone z		100	31.5	-56.5	
Zone 3		Min	0.7	-3.6	Zone 3		Min	31.5	-135.2	
Zone 3		100	0.7	-1.8	20110 3		100	31.5	-70.8	
OH Z1		Min	0.7	-2	OH Z1		Min	31.3	-78.0	Ti
01121		100		-1.9	OHZI		100		-74.4	Fl
OH Z2		Min		-3	OH Z2		Min		-113.7	ad
01122		100		-2	OHZZ		100		-78.0	1
OH Z3		Min		-2 -4.7	OH Z3		Min		-174.5	1
01123		100		-4.7 -2.4	01123		100		-92.3	-
		100		-2.4			100		-92.5	
Walls										
Gcp	Area	Po	J		Pressure	Area	Pos	Neg		
Zone 4		10	1	-1.1	Zone 4		10	42.2	-45.8	
		100	0.825	-0.93			100	35.9	-39.5	
Zone 5		10	1	-1.4	Zone 5		10	42.2	-56.5	
		100	0.825	-1.1			100	35.9	-45.8	
Design Pres	ssures									
Pressure	Area	Po	s Neg							
Zone 1		Min	18.9	-36.1						
		100	18.9	-27.5						

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Pressure	Area	Pos	Neg	
Zone 1		Min	18.9	-36.1
		100	18.9	-27.5
Zone 2		Min	18.9	-57.5
		100	18.9	-33.9
Zone 3		Min	18.9	-81.1
		100	18.9	-42.5
OH Z1		Min		-46.8
		100		-44.6
OH Z2		Min		-68.2
		100		-46.8
OH Z3		Min		-104.7
		100		-55.4
Zone 4		10	25.3	-27.5
		100	21.6	-23.7
Zone 5		10	25.3	-33.9
		100	21.6	-27.5

Note: Min area provides the highest loads, 10 sq. ft could have a lower load

MWFRS

Transverse	2											
	1	2	3	4	1e	2e	3e	4e				
+GCpi	13.22	-9.98	-22.43	-20.41	19.59	-13.24	-27.36	-25.57	,			
-Gcpi	26.10	2.89	-9.56	-7.53	32.47	-0.37	-14.48	-12.70)			
Max	26.10	-9.98	-22.43	-20.41	32.47	-13.24	-27.36	-25.57	•			
Longitudin	nal											
	1	2	3	4	5	6	1e	2e	3e	4e 5	ie 6	Se
+GCpi	-22.53	-31.12	-19.67	-22.53	7.87	-16.81	-23.61	-44.71	-25.39	-23.61	15.38	-21.82
-Gcpi	-9.66	-18.24	-6.80	-9.66	20.74	-3.93	-10.73	-31.83	-12.52	-10.73	28.26	-8.94
Max	-22.53	-31.12	-19.67	-22.53	20.74	-16.81	-23.61	-44.71	-25.39	-23.61	28.26	-21.82
	Vertical						Horz					
	End		Int		Overhang		End		Int			
	WW	LW	WW	LW	End	Int	Roof	Wall	Roof	Wall		
Trans	-13.24	-27.36	-9.98	-22.43	-35.4191	-32.1594	14.12	45.16	12.45	33.63		
Long	-44.71	-25.39	-31.12	-19.67	-35.4191	-	-19.31	37.20	-11.45	24.68		

Design Loading

	Vertical						Horz				
	End		Int		Overhang		E	ind		Int	
	ww	LW	WW	LW	End	Int	Roof	Wall	R	loof	Wall
Trans	-7.95	-16.42	-5.99	-13.46	-21.25	-19.30	8.	.47	27.10	7.47	20.18
Long	-26.82	-15.24	-18.67	-11.80	-43.99	-35.84	8.	.47	22.32	7.47	14.81

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria;



onst. Type: VB-unprotoccupancy: Single Famillowable No. Floors: 1 300 MPH Vier Rating of At. Walls: 0 Hr Lan No. MET LOSS-flow. Floor Lost 40 PSF pproval Date: 6/15/2022

VB-unprotected Single Family Dwelling
1 130 MPH Vult, 101 MPH Vase
0 Hr MFT10886-8015-70-3-32-2 40 PSF 6/15/2022

Design Criteria:

Total Length:	68 ft		
Total Width:	30.04 ft	Top chord DL:	10 psf
Unit Width:	15.02 ft	Bottom chord DL:	10 psf
Pitch:	6 /12	Bottom chord LL:	0 psf
Roof Angle:	26.6 deg	Stories:	1
Wall height:	9 ft	Floor Live Load:	40 psf
Overhang:	12 in	Floor Dead Load:	10 psf
Blocking Height:	36 in	Wall Dead Load:	5 psf
Eave Height:	10 ft	Ceiling R value:	30
Min Mean Roof ht:	20 ft	Framing Rafters?: N	
Mean Roof Height:	17.76 ft	Truss Spacing:	24 in oc

Snow Loading:

Ground Snow Load: 0 psf Snow Thermal factor: 1.1 Snow exposure factor: 1 Snow importance Factor: 1 0 psf Flat Roof Snow, Pf: Sloped Roof Snow Ps: 0 psf Unbalanced Roof Load: 0.00 psf Minimum Roof Lr: 20 psf

Wind Loading:

	WW	LW	WWOH	
Transverse End:	-7.95	-16.42		-21.25
Interior:	-5.99	-13.46		-19.30
Long End:	-26.82	-15.24		-43.99
Interior:	-18.67	-11.80		-35.84

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Load Approval Date:

VB-unprotected
Single Family Dwelling
1
130 MPH Vult, 101 MPH Va
0 Hr
MFT10886-8015-70-3-32-2
40 PSF
6/15/2022

Vult:

Vasd:

End zone, 2a: 6.0083333 ft

Exposure: C Internal Press:

135 mph

105 mph

0.18

Truss Reactions

Lateral

14.61

Matewall: 552 lbs Uplift: Matewall: 349 lbs Gravity 667 lbs Sidewall: Sidewall: 211 lbs Truss Spacing: 24 in oc. Snow Load: 0 psf

Load Cases fo	or Ranch		Roof		Roof and 1 Story			
L	oad Case	Sidewall	Matewall	Endwall	Sidewall	Matewall	Endwall	
1	D	164	150	30	284	270	85	
2	S	0	0	0	0	0	0	
3	Su	0	0	0	0	0	0	
4	Lr	170	150	40	170	150	40	
5	L	0	0	0	300	300	40	
6	Wp	0	0	0	0	0	0	
7	Wn	-207	-175	-71	-207	-175	-71	
8	.75(L+Lr)	128	113	30	353	338	60	
9	.75(L+S)	0	0	0	225	225	30	
10	.75(L+Su)	0	0	0	225	225	30	
11	.75(L+S+Wp)	0	0	0	225	225	30	
12	D+L	164	150	30	585	571	125	
13	D+Lr	334	300	70	455	421	125	
14	D+S	164	150	30	284	270	85	
15	D+Su	164	150	30	284	270	85	
16	D+.75(L+Lr)	292	263	60	637	608	145	
17	D+.75(L+S)	164	150	30	510 496		115	
18	D+.75(L+Su)	164	150	30	510 496		115	
19	D+.75(L+S+Wp)	164	150	30	510 496		115	
20	.6D+Wn	-207	-175	-53	-36	-12	-20	
	Dead Load:	164	150	30	284	270	85	
	Dead LC:	D	D	D	D	D	D	
	Live Load:	170	150	40	353	338	60	
	Live LC:	Lr	Lr	Lr	.75(L+Lr)	.75(L+Lr)	.75(L+Lr)	
	Total Load:	334	300	70	637	608	145	
	Total LC:	D+Lr	D+Lr	D+Lr	D+.75(L+Lr)	D+.75(L+Lr)	D+.75(L+Lr)	
	Uplift Load:	-207	-175	-53	-36	-12	-20	
	Uplift LC:	.6D+Wn	.6D+Wn	.6D+Wn	.6D+Wn	.6D+Wn	.6D+Wn	
	Design Load:	334	300	70	585	571	125	
	Design LC:	D+Lr	D+Lr	D+Lr	D+L	D+L	D+L	
	Design LDF:	1.25	1.25	1.25	1	1	1	
_	·	-						

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



14.61 psf

LDF 0.9 1.15 1.15 1.25 1 1.6 1.6 1.25 1.15 1.15 1.6 1 1.25 1.15 1.15 1.25 1.15 1.15 1.6 1.6

VB-unprotected Single Family Dwelling

Floor Load only Live 300 300 1 Dead 75 75 0.9 Combined Loading: Max Bending: 164 150 30 284 270 85 plf 85 plf 2 D+Wp 164 150 30 284 270 284 85 plf Max down 164 150 30 270 19.48 19.48 psf Lateral 19.48 19.48 5 5 Max Axial 1 D+.75(L+Lr) 292 263 60 637 608 145 plf 115 plf 2 D+.75(L+S) 164 150 30 510 496 3 D+.75(L+Su) 510 115 plf 164 150 30 496 4 D+.75(L+S+Wp) 164 150 30 510 496 115 plf Max down 292 263 60 637 608 145 plf

14.61

14.61

3.75

3.75

Matewall Headers Supporting Roof No splices considered in span

Vertical Load

Dead Load: 150 plf D Live Load: 150 plf Lr Total Load: 300 plf D+Lr Uplift Load: -175 plf .6D+Wn

> Cr: 1.15 LL defl L/ 240 TL defl L/ 180

> > D

9.25

9.25

9.25

11.25

14

16

18

24

SPF

SYP

LVL

LVL

LVL

LVL

LVL

LVL

Species Grade Direction

Edge

Edge

Edge

Edge

Edge

Edge

Edge

Edge

#2

Cfu

1

1

1

1

1

1

1

Cfb

1.1

1.0

1.0

1.0

1.0

1.0

0.9

0.9

Fb

875

800

2750

2750

2750

2750

2750

2750

Fv

135

175

285

285

285

285

285

285

.131x3"

	Cu. 1.23	IL dell
/ortical		

Vertical					
Qty.	В				
1	1.5				
1	1.5				
1	1.5				
1	1.5				
1	1.5				
1	1.5				
1	1.5				
1	1.5				
	Oty. 1 1 1 1 1 1				

9 10

	Shear	Moment	LL def	TL def
1	143	91	152	147
2	180	83	152	147
3	229	156	172	165
4	279	187	209	201
5	347	230	260	250
6	396	260	297	285
7	446	290	334	321
8	594	379	445	428
9				
10				

		Reactio	Bearing	
Member	Max Span	Gravity	Uplift	(in)
1 (1) 2x 10 SPF #2	90 in	1200	-660	1.9
2 (1) 2x 10 SYP #2	82 in	1100	-600	1.5
3 (1) 2x 9.25 LVL	156 in	2000	-1140	1.1
4 (1) 2x 11.25 LVL	187 in	2400	-1360	1.1
5 (1) 2x 14 LVL	229 in	2900	-1670	1.1
6 (1) 2x 16 LVL	260 in	3300	-1900	1.1
7 (1) 2x 18 LVL	290 in	3700	-2110	1.1
8 (1) 2x 24 LVL	379 in	4800	-2760	1.1
9				
10				

	Reaction	iis (ius)	bearing
Max Span	Gravity	Uplift	(in)
90 in	1200	-660	1.9
82 in	1100	-600	1.5
156 in	2000	-1140	1.1
187 in	2400	-1360	1.1
229 in	2900	-1670	1.1
260 in	3300	-1900	1.1
290 in	3700	-2110	1.1
379 in	4800	-2760	1.1
·	·		·



130 MPH Vult, 101 MPH Vas 0 Hr MFT10886-8015-70-3-32-2 40 PSF 6/15/2022 Franklin Structures, LLC

Location: Matewall Supporting: Roof

Wall height: 108 in Min sill height: 18 in LVL: Microllam LVL MOE (E): 2000000 psi E min: 1016411 psi 2750 psi Fb: Fv: 285 psi

Fcperp: 750 psi Volume effect exp (e): 0.136

Cr (LVL): 1.04

rcheib		EIIIIII	Fυ	ΓV	A	3	
425	1400000	510000	1203	169	13.9	21.4	98.9
565	1400000	510000	1000	219	13.9	21.4	98.9
750	2000000	1016411	3561	285	13.9	21.4	98.9
750	2000000	1016411	3468	285	16.9	31.6	178.0
750	2000000	1016411	3366	285	21.0	49.0	343.0
750	2000000	1016411	3306	285	24.0	64.0	512.0
750	2000000	1016411	3253	285	27.0	81.0	729.0
750	2000000	1016411	3128	285	36.0	144.0	1728.0

2000000	1016411	3306	285	24.0	64.0	512.0
2000000	1016411	3253	285	27.0	81.0	729.0
2000000	1016411	3128	285	36.0	144.0	1728.0

can be based off span or header

#.131x3" nails per header

nails

Location: Matewall Supporting: Roof

Matewall Columns

NDS Load: 300 plf
Component Com
Vertical 1.6 Vertical 1.8 Ver
Cross 1
Cr Cr Cr Cr Cr Cr Cr Cr
Cri 1
Cd: 1.6 cd grav: 1.25 steral deflection L/ 120 Lateral:: 3.8 psf W Vol eff (e): 0.136 Cd grav: Vertical Spacing B D Species Grade or language c le/b Cfb Cfc Fb Fc (grav) Fc (comb) Fc perp E Emin FcE Ft ft 1.5 Species Grade or language c le/b Cfc Fb Fc (grav) Fc (comb) Fc perp E Emin FcE Ft 1 1 6 1.5 3.5 SPF #3 0.8 29.6 1.5 1.5 500 650 650 425 1200000 440000 414 250 Bearing length: 1.5 SPF #3 0.8 29.6 1.5 1.200 366 379 425 1200000 440000 440000 440000 4600 Bearing length: 1.5 1.5 8 7 8 <t< td=""></t<>
Cd grav: 1.25 3 ateral deflection I / 120 Cf grav: Pc (grav) Fc (comb) Fcper Pc (comb) Fcper Pc Pcper Pc Pcper
Spacing B
Spacing I of Specing B or Specing
1 16 1.5 3.5 SPF #3 0.8 29.6 1.5 1.15 500 650 650 425 120000 440000 414 250 Cp 0.39 0.32 Allowable: 1200 366 379 425 120000 440000 440000 600 Bearing length: 1.5
Rearing length: 1.5 Searing length: 1.5
Allowable: 1200 366 379 425 120000 440000 600
Bearing length: 1.5
of Studs 1 2 3 4 5 6 7 8 9 10 1 2 3 10.5 15.8 21.0 26.3 31.5 36.8 42.0 47.3 52.5 5.3 10.5 15.8 5x in^3 3.1 6.1 9.2 12.3 15.3 18.4 21.4 24.5 27.6 30.6 3.1 6.1 9.2 12.3 1x in^4 5.4 10.7 16.1 21.4 26.8 32.2 37.5 42.9 48.2 53.6 5.4 10.7 16.1 Axial Loading Fc Compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
of Studs 1 2 3 4 5 6 7 8 9 10 1 2 3 Properties Area in^2 5.3 10.5 15.8 21.0 26.3 31.5 36.8 42.0 47.3 52.5 5.3 10.5 15.8 5.8 in^3 3.1 6.1 9.2 12.3 15.3 18.4 21.4 24.5 27.6 30.6 3.1 6.1 9.2 12.3 in^4 5.4 10.7 16.1 21.4 26.8 32.2 37.5 42.9 48.2 53.6 5.4 10.7 16.1 Axial Loading Fc Compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Fension 217 433 650 866 1083 1300 1516 1733 1950 2166
of Studs
of Studs
Properties Area in^2 5.3 10.5 15.8 21.0 26.3 31.5 36.8 42.0 47.3 52.5 5.3 10.5 15.8 5x in^3 Sx in^3 3.1 6.1 9.2 12.3 15.3 18.4 21.4 24.5 27.6 30.6 3.1 6.1 9.2 1x in^4 Ix in^4 5.4 10.7 16.1 21.4 26.8 32.2 37.5 42.9 48.2 53.6 5.4 10.7 16.1 Axial Loading Fc compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression Fc Perp compression 38 76 115 153 191 229 267 306 344 382 1950 2166 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Sx in^3 3.1 6.1 9.2 12.3 15.3 18.4 21.4 24.5 27.6 30.6 3.1 6.1 9.2 Ix in^4 5.4 10.7 16.1 21.4 26.8 32.2 37.5 42.9 48.2 53.6 5.4 10.7 16.1 Axial Loading Fc compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Axial Loading 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Axial Loading Fc compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Fc compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Fc compression 77 154 230 307 384 461 538 615 691 768 16 117 338 Fc Perp compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Fc Per compression 38 76 115 153 191 229 267 306 344 382 Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Tension 217 433 650 866 1083 1300 1516 1733 1950 2166
Conditional Londing
Combined Loading
Uplift/Lateral 217 433 650 866 1083 1300 1516 1733 1950 2166
Vert/Lateral max Lat 67 252 401 551 704 857 1011 1165 1321 1476
Vert/Lateral Max Vert 67 150 236 323 411 499 588 677 766 855
<u>Deflection Check</u> L/ 802 1604 2406 3208 4009 4811 5613 6415 7217 8019
OK OK OK OK OK OK OK OK
38 76 115 153 191 229 267 306 344 382
Max Span Max Trib Max Side Opening
1 38 in 58 in = 4 ft - 10 in
2 76 in 133 in = 11 ft - 1 in
3 115 in 208 in = 17 ft - 3 in
4 153 in 283 in = 23 ft - 6 in
5 191 in 358 in = 29 ft - 9 in
6 229 in 433 in = 36 ft - 1 in
7 267 in 508 in = 42 ft - 4 in
8 306 in 583 in = 48 ft - 7 in
9 344 in 658 in = 54 ft - 10 in
10 382 in 732 in = 61 ft - 0 in

Notes: Center column is total span on both sides of column. Side column is total clear span. All studs are to be braced in weak axis by gypsum or sheathing. Center column must be in center 1/3 of span.

Studs must be as wide as header.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Location: Matewall
Matewall Columns at Endwall
Supporting: Roof

<u>Vertical L</u> NDS Load: Total Load:	<u>.oad</u> 300 pl 300 pl		D+Lr D+Lr		<u>Lateral Load</u> Lateral only Stud area:	-	0 ft^2			Combined Vertical: Lateral:	Vert and La			Wal Top/Btm Pl		108 in 4.5 in Microllam
Uplift Load:	-175 pl		.6D+Wn		Lateral:		5 psf	W			Vert and La	•		IVII		2000000 psi
							-			Vertical:	263		0			1016411 psi
										Lateral:	3.8	•	.75W		Fb:	2750 psi
					def=.7	C&C				Combined	Uplift and I	<u>Lat</u>			Fv:	285 psi
Cr:	1									Vertical:	-175	plf	.6D+Wn		Fcperp:	750 psi
Cd:	1.6									Lateral:	3.8	psf	W	Vo	ol eff (e):	0.136
Cd grav:	1.25			ateral de	flection L/ 1	20									Cr (LVL):	1.04
Vertical																
Spacing	В	D	Species		С	le/D	Cfb	CfC	Fb		Fc (comb)		E	Emin	FcE	Ft
1 16	1.5	5	SYP	#2	8.0	20.7	1.0	1.00	1000	1400	1400	565	1400000	510000	978	600
									Ср	0.47	0.39					
		_						Allowable:	1600	829	868	565	1400000	510000		960
Bearing I	length:	5												ed (betwee		
													69	35	23	
													88	352	792	
# of Childs			1	2									0.04979	0.192126	0.3996	
# of Studs Properties			1	2												
Area in^2			7.5	15.0												
Sx in^3			6.3	12.5												
lx in^4			15.6	31.3												
17 111 4			13.0	31.3												
Axial Loading																
Fc compression	า		248	497												
Fc Perp compre			169	339												
Tension			495	990												
Combined Load	ding															
Uplift/Lateral			495	990												
Vert/Lateral ma	ax Lat		258	939												
Vert/Lateral M	ax Vert		258	547												
Deflection Che	<u>ck</u>	L,		5455												
			OK	OK												
			169	339												
Max Span		May	(Trib	ſ			Max Si	de Opening								
1) in		321 i	n =	IVIUX JII	26 ft -) in						
2			in		658 i			54 ft -) in						
-					330 11					•						
											1					I

Notes: Center column is total span on both sides of column. Side column is total clear span. All studs are to be braced in weak axis by gypsum or sheathing. Center column must be in center 1/3 of span.

Studs must be as wide as header.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Const. Type:
Occupancy:
Allowable No.
of Ploos:
Visingle Family Dwelling
Allowable No.
of Ploos:
130 MPH Vult. 101 MPH Vasc
Pier Railing of
But. Wates
OH:
Plan No.
of Ploos:
OH ETITIOS6-S015-70-3-32-2
Allow, Floor Load
Allow, Floor Load
Herndscharer:
OHSE
Paparoal Date:
OLS 2022
Franklin Structures LLC

Location: Sidewall Supporting: Roof

Sidewall Headers Supporting Roof

U-Headers

For Lateral Loading See Sill Plate, This calculation is only for vertical load and a sill plate must be used at the top of the opening

Vertical L	oad	
Dead Load:	164 plf	D
Live Load:	170 plf	Lr
Total Load:	334 plf	D+Lr
Uplift Load:	-207 plf	.6D+Wn

Wall height: 108 in Min sill height: 18 in LVL: Microllam LVL MOE (E): 2000000 psi E min: 1016411 psi Fb: 2750 psi 285 psi Fv:

Cr: 1.15 LL defl L/ 240 Cd: 1.25 TL defl L/ 180

Fcperp: 750 psi Volume effect exp (e): 0.136 Cr (LVL): 1.04

Vertica	

	Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	E	Emin	Fb'	Fv'	Α	S	- 1
1	2	1.5	2.5	SPF	#2	Edge	1	1.5	875	135	425	1400000	510000	1641	169	7.5	3.1	3.9
2	2	1.5	3.5	SPF	#2	Edge	1	1.5	875	135	425	1400000	510000	1641	169	10.5	6.1	10.7
3	2	1.5	5.5	SPF	#2	Edge	1	1.3	875	135	425	1400000	510000	1422	169	16.5	15.1	41.6
4	2	1.5	7.25	SPF	#2	Edge	1	1.2	875	135	425	1400000	510000	1313	169	21.8	26.3	95.3
5	2	1.5	2.5	SYP	#2	Edge	1	1.0	1100	175	565	1400000	510000	1375	219	7.5	3.1	3.9
6	2	1.5	3.5	SYP	#2	Edge	1	1.0	1100	175	565	1400000	510000	1375	219	10.5	6.1	10.7
7	2	1.5	5.5	SYP	#2	Edge	1	1.0	1100	175	565	1400000	510000	1375	219	16.5	15.1	41.6
8	2	1.5	7.25	SYP	#2	Edge	1	1.0	925	175	565	1400000	510000	1156	219	21.8	26.3	95.3
9																		
10																		

_				
	Shear	Moment	LL def	TL def
1	66	38	50	48
2	92	54	70	67
3	144	79	110	106
4	190	100	144	139
5	83	35	50	48
6	117	49	70	67
7	184	77	110	106
8	242	93	144	139

	Snear	woment	LL dei	it dei
1	66	38	50	48
2	92	54	70	67
3	144	79	110	106
4	190	100	144	139
5	83	35	50	48
6	117	49	70	67
7	184	77	110	106
8	242	93	144	139
9				
10				

Member 1 (2) 2x 3 SPF #2 2 (2) 2x 4 SPF #2 3 (2) 2x 6 SPF #2 4 (2) 2x 8 SPF #2 5 (2) 2x 3 SYP #2 6 (2) 2x 4 SYP #2 7 (2) 2x 6 SYP #2 8 (2) 2x 8 SYP #2

10

	Reaction	ns (lbs)	Bearing		
Max Span	Gravity	Uplift	(in)		
38 in	600	-330	0.5		
53 in	800	-460	0.5		
78 in	1100	-680	0.5		
99 in	1400	-860	0.5		
35 in	500	-310	0.4		
49 in	700	-430	0.4		
77 in	1100	-670	0.4		
93 in	1300	-810	0.4		

					# can be based off span or header
.131	x3"		# n	ails	# .131x3" nails per header
Grav	69.1	lb	Grav Uplif		
uplift	88.4	lb	4.34	1.87	5
			5.79	2.60	6
			7.96	3.84	8
			10.13	4.86	11
			3.62	1.75	4
			5.07	2.43	6
			7.96	3.79	8
			9.41	4.58	10



AllowsVind Velocity:

130 MPH VMM
File Railing of
Ed. While:

10 Hr
METI0886:8015-70-3-32-2

Allow. Floor Load:

40 PSE
Agnovial Date:

4 Agnovial Date:

4 Agnovial Date:

5 (15/2022

Franklin Structures, LLC

Location: Sidewall Supporting: Roof

Sidewall Studs (King)

Lateral Load Combined Vert and Lat (max Lat) Wall height: 108 in Vertical Load 0 Top/Btm Plate (tp): NDS Load: 334 plf D+Lr 4.5 in Lateral only Vertical: 164 plf Total Load: 334 plf D+Lr Stud area: 27.0 ft^2 Lateral: 27 psf W Header height: 80 in Uplift Load: -207 plf .6D+Wn Zone 5: 31 psf W Combined Vert and Lat (max Vert) LVL: Microllam LVL MOE (E): 2000000 psi Zone 4: 26 psf w Vertical: 292 plf 0 Lateral: 20.3 psf E min: 1016411 psi .75W def=.7 C&C Combined Uplift and Lat Fb: 2750 psi 285 psi Cr: 1 Vertical: -207 plf .6D+Wn Fv: Cd: 1.6 Lateral: 20.3 psf Fcperp: 750 psi 1.25 ateral deflection L/ 120 Vol eff (e): 0.136 Cd grav: Vertical Cr (LVL): 1.04 Trib В D le/D Cfb CfC Fb Fc (grav) Fc (comb) Fcperp FcE Ft Species Grade Emin 0.8 20.7 1.0 1.00 1000 1400 1400 565 1400000 510000 978 600 175.0 1 16 1.5 5 SYP #2 Ср 0.47 0.39 Allowable: 1600 829 868 565 1400000 510000 960 Single King Stud Lateral Only Opening: 16 Vertical Only Combined Max Lat Combind Max Vert Fb: 729 psi Max CSI: ОК Fc: 59 psi CSI: 0.47 CSI: 0.36 0.47

Check Single stud for a max given max opening

Then check jacks and kings seperately and take controlling number, say calc 1 king for wind and it spans X distance and it takes 3 jacks to span that give results for different combinations

		King	g Studs En	d Zone		37.5 7.5 15.0 22.5 30.0 3 31.3 6.3 12.5 18.8 25.0 3 78.1 15.6 31.3 46.9 62.5 7 5 1 2 3 4 176 42 83 125 167 22 397 94 188 283 377 4 2281 364 849 1327 1805 22 1297 221 492 761 1029 12 203 171 171 171 171 171 0K OK OK OK OK OK OK 176 42 83 125 167 2 End Zone 4 ft - 6 in 67 in 10 ft - 4 in 150 in 16 ft - 2 in 233 in 22 ft - 0 in 317 in							
	1	2	3	4	5	1	2	3	4	5			
	7.5	15.0	22.5	30.0	37.5	7.5	15.0	22.5	30.0	37.5			
	6.3	12.5	18.8	25.0	31.3	6.3	12.5	18.8	25.0	31.3			
	15.6	31.3	46.9	62.5	78.1	15.6	31.3	46.9	62.5	78.1			
	1	2	3	4	5	1	2	3	4	5			
	35	70	105	140	176	42	83	125	167	208			
	47	94	141	188	235	56	111	167	223	279			
	79	159	238	318	397	94	188	283	377	471			
	364	849	1327	1805	2281	364	849	1327	1805	2281			
	221	492	761	1029	1297	221	492	761	1029	1297			
L/	203	203	203	203	203	171	171	171	171	171			
	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK			
	35	70	105	140	176	42	83	125	167	208			
		Ī			End Zo	ne					Interior	Zone	
			54	in =	4	ft -	6	in	67	in =	5	ft -	7 in
			124	in =	10	ft -	4	in	150	in =	12	ft -	6 in
			194	in =	16	ft -	2	in	233	in =	19	ft -	5 in
			264	in =	22	ft -	0	in	317	in =	26	ft -	5 in
			335	in =	27	ft -	11	in	400	in =	33	ft -	4 in
	V	7.5 6.3 15.6 1 35 47 79 364 221 L/ 203 OK	1 2 7.5 15.0 6.3 12.5 15.6 31.3 1 2 35 70 47 94 79 159 364 849 221 492 L/ 203 203 OK OK	1 2 3 7.5 15.0 22.5 6.3 12.5 18.8 15.6 31.3 46.9 1 2 3 35 70 105 47 94 141 79 159 238 364 849 1327 221 492 761 L/ 203 203 203 OK OK OK 35 70 105 54 124 194 264	7.5 15.0 22.5 30.0 6.3 12.5 18.8 25.0 15.6 31.3 46.9 62.5 1 2 3 4 35 70 105 140 47 94 141 188 79 159 238 318 364 849 1327 1805 221 492 761 1029 L/ 203 203 203 203 OK OK OK OK	1 2 3 4 5 7.5 15.0 22.5 30.0 37.5 6.3 12.5 18.8 25.0 31.3 15.6 31.3 46.9 62.5 78.1 1 2 3 4 5 35 70 105 140 176 47 94 141 188 235 79 159 238 318 397 21 492 761 1029 1297 L/ 203 203 203 203 203 0K 0K 0K 0K 0K 0K 35 70 105 140 176 End Zo 54 in = 4 124 in = 10 194 in = 16 264 in = 22	1 2 3 4 5 1 7.5 15.0 22.5 30.0 37.5 7.5 6.3 12.5 18.8 25.0 31.3 6.3 15.6 31.3 46.9 62.5 78.1 15.6 1 2 3 4 5 1 35 70 105 140 176 42 47 94 141 188 235 56 79 159 238 318 397 94 364 849 1327 1805 2281 364 221 492 761 1029 1297 221 L/ 203 203 203 203 203 171 OK OK OK OK OK OK OK 35 70 105 140 176 42 End Zone 54 in = 4 ft - 124 in = 10 ft - 194 in = 16 ft - 264 in = 22 ft -	1 2 3 4 5 1 2 7.5 15.0 22.5 30.0 37.5 7.5 15.0 6.3 12.5 18.8 25.0 31.3 6.3 12.5 15.6 31.3 46.9 62.5 78.1 15.6 31.3 1 2 3 4 5 1 2 35 70 105 140 176 42 83 47 94 141 188 235 56 111 79 159 238 318 397 94 188 364 849 1327 1805 2281 364 849 221 492 761 1029 1297 221 492 L/ 203 203 203 203 203 203 171 171 OK OK OK OK OK OK OK OK 35 70 105 140 176 42 83 End Zone 54 in = 4 ft - 6 i 124 in = 10 ft - 4 i 194 in = 16 ft - 2 i 264 in = 22 ft - 0 ii	1 2 3 4 5 1 2 3 7.5 15.0 22.5 30.0 37.5 7.5 15.0 22.5 6.3 12.5 18.8 25.0 31.3 6.3 12.5 18.8 15.6 31.3 46.9 62.5 78.1 15.6 31.3 46.9 1 2 3 4 5 1 2 3 35 70 105 140 176 42 83 125 47 94 141 188 235 56 111 167 79 159 238 318 397 94 188 283 364 849 1327 1805 2281 364 849 1327 221 492 761 1029 1297 221 492 761 L/ 203 203 203 203 203 203 171 171 171 OK OK OK OK OK OK OK OK OK 35 70 105 140 176 42 83 125 End Zone 54 in = 4 ft - 6 in 124 in = 10 ft - 4 in 194 in = 16 ft - 2 in 264 in = 22 ft - 0 in	1 2 3 4 5 1 2 3 4 7.5 15.0 22.5 30.0 37.5 7.5 15.0 22.5 30.0 6.3 12.5 18.8 25.0 31.3 6.3 12.5 18.8 25.0 15.6 31.3 46.9 62.5 78.1 15.6 31.3 46.9 62.5 1 2 3 4 5 1 2 3 4 35 70 105 140 176 42 83 125 167 47 94 141 188 235 56 111 167 223 79 159 238 318 397 94 188 283 377 364 849 1327 1805 2281 364 849 1327 1805 221 492 761 1029 1297 221 492 761 1029 L/ 203 203 203 203 203 203 171 171 171 171 OK 35 70 105 140 176 42 83 125 167 End Zone 54 in = 4 ft - 6 in 67 124 in = 10 ft - 4 in 150 194 in = 16 ft - 2 in 233 264 in = 22 ft - 0 in 317	1 2 3 4 5 1 2 3 4 5 1 2 3 4 5 6.3 12.5 30.0 37.5 6.3 12.5 18.8 25.0 31.3 6.3 12.5 18.8 25.0 31.3 15.6 31.3 46.9 62.5 78.1 15.6 15.6 12.5 12.5 12.5 12.5 12.5 12.5 12.5 12.5	1 2 3 4 5 1 2 3 4 5 7.5 15.0 22.5 30.0 37.5 7.5 15.0 22.5 30.0 37.5 6.3 12.5 18.8 25.0 31.3 6.3 12.5 18.8 25.0 31.3 15.6 31.3 46.9 62.5 78.1 15.6 31.3 46.9 62.5 78.1 1 2 3 4 5 1 2 3 4 5 35 70 105 140 176 42 83 125 167 208 47 94 141 188 235 56 111 167 223 279 79 159 238 318 397 94 188 283 377 471 364 849 1327 1805 2281 364 849 1327 1805 2281 221 492 761 1029 1297 221 492 761 1029 1297 L/ 203 203 203 203 203 203 171 171 171 171 171 171 OK 35 70 105 140 176 42 83 125 167 208 End Zone End Zone End Zone Send Zone Send Zone Send Zone Send Zone 10terior 54 in = 4 ft - 6 in 67 in = 5 124 in = 10 ft - 4 in 150 in = 12 194 in = 16 ft - 2 in 233 in = 19 264 in = 22 ft - 0 in 317 in = 26	1 2 3 4 5 1 2 3 0.0 37.5 7.5 15.0 22.5 30.0 37.5 6.3 12.5 18.8 25.0 31.3 15.6 31.3 46.9 62.5 78.1 15.0 40.9 40.9 40.9 40.9 40.9 40.9 40.9 40

All studs are to be braced in weak axis by gypsum or sheathing.

Center column must be in center 1/3 of span.

Studs must be as wide as header.

Note: ripped lumber must be regraded

Florida Manufactured Building Act and adopted Codes and adhere to the following criteria: APPROVED BY Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Load Approval Date: Manufacturer;

VB-unprotected Single Family Dwelling 1 130 MPH Vult, 101 MPH V

0 Hr MFT10886-8015-70-3-32-2 4 40 PSF 6/15/2022

Location: Sidewall Supporting: Roof

Sidewall Studs (Jack)

<u>Vertical I</u> NDS Load: Total Load: Uplift Load:	lf If If	D+Lr D+Lr .6D+Wn											Top/Btm F	LVL: MOE (E):	108 in 4.5 in Microllam 2000000 psi 1016411 psi 2750 psi 285 psi	
Cr:	1														Fcperp:	750 psi
Cd:													V	ol eff (e):	0.136	
Cd grav:	1.25			ateral def	lection L/	120									Cr (LVL):	1.04
Vertical																
Spacing	В	D	Species	Grade	С	le/D	Cfb	CfC	Fb		Fc (comb)		E	Emin	FcE	Ft
1 16	1.5	5	SYP	#2	0.8	20.7	1.0	1.00	1000	1400	1400	565	1400000	510000	978	600
									Ср	0.47	0.39					
							Allowable:	1600	829	868	565	1400000	510000		960	
Header	width:	1.5	in													
		3 4.5	in in													
		4.5	m													
# of Studs Properties			1	2	3	4	5	6	7	8	9	10				
Area in^2			7.5	15.0	22.5	30.0	37.5	45.0	52.5	60.0	67.5	75.0				
Sx in^3			6.3	12.5	18.8	25.0	31.3	37.5	43.8	50.0	56.3	62.5				
lx in^4			15.6	31.3	46.9	62.5	78.1	93.8	109.4	125.0	140.6	156.3				
Axial Loading																
Fc compression			223 46	446	669	893	1116	1339	1562	1785	2008	2231				
	Fc Perp compression 1.5 in			91	137	182	228	274	319	365	411	456				
Fc Perp compression 3 in			91	182	274	365	456	547	639	730	821	912				
Fc Perp compression 4.5 in		137 418	274	411	547	684	821	958	1095	1232	1369					
Tension	Tension			837	1255	1673	2092	2510	2929	3347	3765	4184				

Trib taken by King stud: 0 in Increase of span: 0

Max Span

1 2 3

	Double Headers			Triple Headers	
176 in =	14 ft -	7 in	267 in =	22 ft -	3 in
352 in =	29 ft -	3 in	535 in =	44 ft -	7 in
529 in =	44 ft -	1 in	803 in =	66 ft -	11 in

Note: ripped lumber must be regraded

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



| St. Type: VB-unprotected | | Single Family Dwelling | wable No. | | Protected | | Single Family Dwelling | | Single Family Dwel

0 Hr MFT10886-8015-70-3-32at: 40 PSF 6/15/2022 **Uplift Straps:** Sidewall

Uplift: -207 plf

Stud Spacing: 16 in

Strapping

Strap All: 1110 lbs LSTA18

fasteners: 14 .148x 2.5"

Strap Spacing: 5.37 ft (MAX SPACING USE 32" OC)

At openings

Span (in)

# of straps	Side opening	center opening
1	112	128
2	240	256
3	370	386
4	498	514
5	628	644
6	756	772
7	886	902
8	1014	1030
		total span

If sheathing is being used for uplift NOT at openings:

Max OSB per E510A: 1500 plf

> .131 Nail: 108 lb 82 lb 15ga:

Spacing from OSB to rail:

.131 Nail: 6.28 " oc 15ga: 4.76 " oc

fasteners into Studs:

Use 3 .131 Nail: 2.5 lb 3.4 lb Use 4 15ga:



Туре:	VB-unprotecte
ancy:	Single Family 1
ble No.	
ors;	1
/elocity:	130 MPH Vult
ating of	
/alls:	0 Hr
lo.:	MFT10886-80
Floor Load:	40 PSF
val Date:	6/15/2022_
acturer:	Enondelin Stanot

15-70-3-32-2

Uplift Straps: Matewall

Uplift: -175 plf

Stud Spacing: 16 in

Strapping

Strap All: 1110 lbs LSTA18

fasteners: 14 .148x 2.5"

Strap Spacing: 6.36 ft (MAX SPACING USE 32" OC)

At openings

Span (in)

# of straps	Side opening	center opening
1	136	152
2	288	304
3	440	456
4	594	610
5	746	762
6	898	914
7	1052	1068
8	1204	1220
		total span

If sheathing is being used for uplift NOT at openings:

Max OSB per E510A: 1500 plf

.131 Nail: 108 lb 15ga: 82 lb

Spacing from OSB to rail:

.131 Nail: 7.43 " oc 15ga: 5.64 " oc

fasteners into Studs:

.131 Nail: 2.2 lb Use 3 15ga: 2.8 lb Use 3 These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



st. Type: VB-unprot upanoy: Single Fam wable No. oors: 1 130 MPH V Rating of Walls: 0 Hr No.: MFL10886 V PSF roval Date: 6/15/2022

VB-unprotected
Single Family Dwelling

1
130 MPH Vult. 101 MPH Vass
0 Hr
MFT10886-8015-70-3-32-2

Sill Plates

10

8 9 10 Lateral Load Wall height: 108 in Lateral only Min sill height: 18 in

128 plf (C&C) LVL: Microllam Wind:

def=.7 C&C LVL MOE (E): 2000000 psi E min: 1016411 psi Fb: 2750 psi 285 psi Fv:

Cr: 1.15 Fcperp: 750 psi Cd: 1.6 Lateral deflection L/ 120 Volume effect exp (e): 0.136 Cr (LVL): 1.04

																	Cr (LVL):	1.04	
V	ertic	al																	
		Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	E	Emin	Fb'	Fv'	Α	S	- 1
	1	1	1.5	5	SPF	#2	Edge	1	1.4	875	135	425	1400000	510000	1960	216	7.5	6.3	15.6
	2	2	1.5	5	SPF	#2	Edge	1	1.4	875	135	425	1400000	510000	1960	216	15.0	12.5	31.3
	3	3	1.5	5	SPF	#2	Edge	1	1.4	875	135	425	1400000	510000	2254	216	22.5	18.8	46.9
	4	1	1.5	5	SYP	#2	Edge	1	1.0	1000	175	565	1400000	510000	1600	280	7.5	6.3	15.6
	5	2	1.5	5	SYP	#2	Edge	1	1.0	1000	175	565	1400000	510000	1600	280	15.0	12.5	31.3
	6	3	1.5	5	SYP	#2	Edge	1	1.0	1000	175	565	1400000	510000	1840	280	22.5	18.8	46.9

7 8 9 Note: ripped lumber must be regraded 10

	lu	le	Fbe	Cl	Shear	Moment	Def
1	84.5	152.8	1803	0.78	212	85	109
2	109.9	194.1	1419	0.66	413	110	138
3	128.0	223.6	1232	0.52	615	128	158
4	80.8	146.7	1878	0.87	272	81	109
5	107.5	190.2	1448	0.77	533	107	138
6	126.8	221.7	1242	0.62	795	127	158
7							
8							
۵							

Sill and header lateral connection:

			Span	Load @	Nail	0.131	15ga	15gax2.5"	
			(ft)	Ends (lbs)	Zeg(lb)	Nails	Zeg(lb)	Staples	
			2	128.48	88	2	48	3	
			3	192.72		3		5	
			4	256.97		3		6	
		Reactions (lbs)	5	321.21		4		7	
Member	Max Span	Gravity	6	385.45		5		9	
1 (1) 2x 5 SPF #2	84 in	500	7	449.69		6		10	
2 (2) 2x 5 SPF #2	109 in	600	8	513.93		6		11	
3 (3) 2x 5 SPF #2	127 in	700	9	578.17		7		13	
4 (1) 2x 5 SYP #2	80 in	500	10	642.41		8		14	
5 (2) 2x 5 SYP #2	107 in	600	11	706.65		8		15	
6 (3) 2x 5 SYP #2	126 in	700	12	770.90		9		17	
7			13	835.14		10		18	
8			14	899.38		11		19	
9									
	1	1							



Const. Type: VB-unprotected
Cocupanor;
Allowable No.
When Velocial;
Velocity Velocity
Figs Railing of Set, Walter
Plan No:
Allow. Filor Long.
Approval Date:
Manufacturer:
Manufacturer:

WB-unprotected
Single Family Dwelling
130 MPH Vuit. 101 MPH Vasc
130 MPH Vuit. 101 MPH Vasc
130 MPH Vasc
140 MPH Vasc

Wind Pressures for Low-rise buildings or buildings with h<60ft ASCE 7-16 Chapter 30 Part I:

Wind Speed, Vult:	130 MPH	Roof Style: Gable	
Wind Exposure:	С	Roof Pitch: 6 /12	,
Mean Roof Height:	20 FT	Roof Angle: 26.6	
Elevation:	0 FT	Width 30.04 ft	
Ke:	1.00	2a: 6 ft	
Kd:	0.85	Wall Height: 9 ft	
Kzt:	1	Heel Ht: 6 in	
kt:	0.90	Roof Ht: 7.51 ft	
qh:	33.17 psf	Stud Spacing: 16 "oc	:
Building Type:	Enclosed	Overhang: 12 "	
Gcpi:	0.18	Int. Shearwall: NO	
	-0.18		
Min net pressure:	16 psf		

MWFRS

Transverse												
	1	2	3	4 1	e 2e	3e	4e					
+GCpi	12.3	-9.3	-20.8	-18.9	18.2	-12.3	-25.4	-23.7				
-Gcpi	24.2	2.7	-8.9	-7.0	30.1	-0.3	-13.4	-11.8				
Max	24.2	-9.3	-20.8	-18.9	30.1	-12.3	-25.4	-23.7				
Longitudinal												
	1	2	3	4	5	6 1e	2e	3e	4e	5e	6	ie
+GCpi	-20.9	-28.9	-18.2	-20.9	7.3	-15.6	-21.9	-41.5	-23.5	-21.9	14.3	-20.2
-Gcpi	-9.0	-16.9	-6.3	-9.0	19.2	-3.6	-9.9	-29.5	-11.6	-9.9	26.2	-8.3
Max	-20.9	-28.9	-18.2	-20.9	19.2	-15.6	-21.9	-41.5	-23.5	-21.9	26.2	-20.2
Vertical						Hor	Z					
End		- 1	nt	0	verhang	End		Int				
WW	LW	/ \	WW L	W E	nd Int	Roo	f Wa	all Roof	Wal	I		
Trans	-12.3	-25.4	-9.3	-20.8	-32.8	-29.8	13.1	41.9	11.5	31.2		
Long	-41.5	-23.5	-28.9	-18.2	-32.8 -		-17.9	34.5	-10.6	22.9		

Design Loading

	Vertical							Horz			
		End		Int		Overhang		En	d	In	t
	ww	LW	,	WW	LW	End	Int	Roof	Wall	Roof	Wall
Trans		-7.4	-15.2	-5.6	-12.5	-19.7	-17.9	7.	9 25.1	6.9	18.7
Long		-24.9	-14.1	-17.3	-10.9	-40.8	-33.2	7.	9 20.7	6.9	13.7

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



onst. Type: VB-unprot coupancy: Single Eam towable No. Floors: 1 130 MPH Ver Refiling of the Walls: 0 Hr an No.: MFT108S6 tow. Floor Load: 40 PSF

Shearwalls:

eft Endwall:		Right Endwall:	
End Zone:	Yes	End Zone:	Yes
Trib:	33 ft	Trib:	33 ft
End Roof:	354 lb	End Roof:	354 lb
End Wall:	754 lb	End Wall:	754 lb
Int Roof:	1404 lb	Int Roof:	1404 lb
Int Wall:	2526 lb	Int Wall:	2526 lb
Total force:	5038 lb	Total force:	5038 lb
Sheathing Thickness:	7/16 in	Sheathing Thickness:	7/16 in
Fastener:	15ga staple	Fastener:	.131 nail
Wall Length:	30.04 ft	Wall Length:	15.02 ft
FHS Length:	22.38 ft	FHS Length:	6.77 ft
Wall Height:	9 ft	Wall Height:	9 ft
Tallest Opening:	5h/6	Tallest Opening:	5h/6
r:	0.78	r:	0.50
Co:	0.72	Co:	0.55
Perf or Segmented:	Р	Perf or Segmented:	S
Blocked:	YES	Blocked:	YES
PLF required:	311.37	PLF required:	744.11
Framing:	SYP	Framing:	SYP
Required Spacing:	4 " OC	Required Spacing:	2 " OC
Tiedown:	2802.3 lb	Tiedown:	6697.0 lb
Strap for:	2519 lb	Strap for:	3023 lb

	VB-unprotected
	Single Family Dwelling
	1
	130 MPH Vult, 101 MPH Vas
	0 Hr
	MFT10886-8015-70-3-32-2
ad;	40 PSF
	6/15/2022
	Franklin Structures, LLC

Top Sidewall: Bottom Sidewall:

ft lb lb lb in
lb lb lb
lb lb
lb
in
9
ft
ft
ft
" OC
lb

Sidewall interconnection: 6 "oc .131 Nails 130 lbs per nail Capacity:

Total Capacity 2340 lbs

			Tiedown	Perf/	Corner
Summary:	Fastener	Edge Spacing	Force	Segment	Connection**
Left Endwall	15ga staple	4 "OC	2802 lb	Р	
Right Endwall	.131 nail	2 "OC	6697 lb	S	
Top Sidewall	15ga staple	6 "OC	978 lb	Р	YES
Bottom Sidewall	15ga staple	6 "OC	1088 lb	Р	YES

^{6 &}quot;oc .131 nails from sidewall to endwall where both walls have tiedown at the corner, then the sidewall is transfered $2^{\prime\prime}$ oc fastener spacing requires double studs and staggered fasteners at panel seams.

Diaphragm:

Max Force: 5038.3 lbs
Load: 157.2 plf
Sheathing: 7/16 in
Fastener: 15ga staple
Framing: SPF

Unblocked Capacity: 176.3 plf

Blocked: 200.9 plf Blocking distance: 0.0 ft

0 ft blocked each end with 15ga staple @ 6"OC edge and field

Notes:

all 15ga staples minimum length of 1.5" all .131 nails minimum length of 2" $\,$

Lateral Foundation Loads:

Endwalls: 15980 lb Sidewalls: 8298 lb

> These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria





Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Load

VB-unprotected
Single Family Dwelling

1
130 MPH Vult, 101 MPH Vas

0 Hr
MFT 10886-8015-70-3-32-2
ad: 40 PSF
015-2022

Connections

Truss to exterior wall uplift:

Uplift Force: 211 lb H2.5A: 535 lb MTS18: 1030 lb

Truss to exterior wall Lateral:

End: 33.9 psf
Int: 27.5 psf
Height: 9 ft
Spacing: 16 in oc

Load:

End: 203.4 lb Int: 164.8 lb .131 nail: 114.84 lb

.131x3"Nails End: 1.8 .131xx3" Nails Int: 1.4 These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



nst. Typa: VB-unprotecte cupancy: Single Family I Floors: 1 130 MPH Vult. Rading of Walls: 0 Hr IN No.: MFT 108K6-801 W. Floor Load: 40 PSF roval Date: 615/2022

Truss king post to Header:

Uplift: 349 lb
Gravity: 552 lb
.131 nail EG: 88.44 lb
.131 nail EG LL: 69.09 lb

.131x3": 8.0 Nails

Or hanger rated for 552lb grav and 349 uplift

Stud to Plate:

End: 30.64 psf (reduced for stud area)

Int: 25.83 psf
Height: 9 ft
Spacing: 16 in oc

Load:

Nails Int:

End: 183.8 lb Int: 155.0 lb .131 nail: 88.44 lb Nails End: 2.1

Use (3) .131x3" nails to connect studs to plates.

1.8

Plate to floor and plate interconnection (top plate):

End: 30.6 psf
Int: 25.8 psf
Height: 9 ft
Load: 137.8672 plf

.131 Nailx3": 108 lb

Spacing of .131 nail: 9.4 " OC int and end zones

15gax2.5" staple: 72 lb

Spacing of 15ga: 6.27 " OC int and end zones

Sheathing Suction Connections (wall and roof)

End Int Wall: -30.6 -27.5 psf Roof: -81.1 -36.1 psf .131x2.5: 66 66 lbs 15gax2.5" staple: 56.8 56.8 lbs Wall Member spacing: " oc 16 16 Nail: 12.0 12.0 " oc " ос Staple: 12.0 12.0 Roof " ос Member spacing: 24 24 " oc Nail: 4.9 11.0 Staple: 4.2 9.5 " oc

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



st. Type: VB-unprotected | Single Eamily Dwelling |
series No. | 1 | 30 MPH Volt. 101 MPH Voltation |
Wellis: No. | 0 HF |
Wellis: No. | WFT10886-8013-70-3-32-3 |
word Index | 0 15/2022 |

Note End zone is 3ft from the end of the house and from eave/ridge on roof This spacing is a minimum for edge AND field fastening.

Truss Kneewall Connection:

Tension: 418 lb Compare to truss print,
Shear: 181 lb Must be higher then truss.

Tension:

CS 22: 845 lb

Shear:

Rail to king post toed
.131x3" nail: 89.71875 lb
#: 2.0 Use 2

Rail to rail:

.131x3" nail: 103.125 lbs

#: 1.8 Use 2 per bay

Floor Joist Calculation

Vertical Load

13 plf Dead Load: D 53 plf Live Load: L Total Load: 67 plf Uplift Load: 0 plf

Cr: 1.15 LL defl L/ 360 Cd: 1 TL defl L/ 240

Vertical

	Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	E	Emin	Fb'	Fv'	Α	S	- 1
1	1	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	13.9	21.4	98.9
2	1	1.5	7.25	SYP	#1	Edge	1	1.0	1250	175	565	1600000	580000	1250	175	10.9	13.1	47.6
2																		

7 9

10

_				
	Shear	Moment	LL def	TL def
1	603	180	197	217
2	472	154	154	170
3				
4				
2 3 4 5 6				
6				
7				
8 9				
9				
10				

		Reactio	ns (lbs)	Bearing		
Member	Max Span	Gravity	Uplift	(in)		
1 (1) 2x 10 SYP #1	180 in	500	0	0.6		
2 (1) 2x 8 SYP #1	153 in	500	0	0.6		
3						
4						
5						
6						
7						
8						
9						
10						

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

Location: Matewall Supporting: Roof & 1 Floor

,	Vertical	Load													,	Wall height:	108 i	n
Dea	d Load:	270) plf	D											Mi	n sill height:	18 i	n
Liv	e Load:	338	3 plf	.75(L+Lr)												LVL:	Microllam	
Tota	otal Load: 571 plf D+L LVL MOE (E):								2000000	osi								
Uplif	t Load:	-12	2 plf	.6D+Wn												E min:	1016411	osi
																Fb:	ا 2750	osi
																Fv:	285	osi
	Cr:	1.15	LL defl L,	/ 360												Fcperp:	750 ן	osi
	Cd:	1	TL defl L,	/ 240											Volume ef	fect exp (e):	0.136	
																Cr (LVL):	1.04	
Vertic	al																	
	Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	E	Emin	Fb'	Fv'	Α	S	1
1	1	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	13.9	21.4	98.9
2	1.5	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	20.8	32.1	148.4
3	2	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	27.8	42.8	197.9
4																		

10				
	Shear	Moment	LL def	TL def
1	87	61	106	109
2 3	121	75	122	124
3	155	87	134	137
4				
5 6 7 8 9				
6				
7				
8				
9				
10				

9

		Reactio	ns (lbs)	Bearing
Member	Max Span	Gravity	Uplift	(in)
1 (1) 2x 10 SYP #1	61 in	1500	-40	1.8
2 (1.5) 2x 10 SYP #1	75 in	1800	-40	1.2
3 (2) 2x 10 SYP #1	86 in	2100	-50	0.9
4				
5				
6				
7				
8				
9				
10				

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria



Const. Type: Occupancy: Allowable No. of Floors: Wind Velocity: Fire Rating of Ext. Walls: Plan No.: Allow. Floor Load: Approval Date:

VS-improtected Single Family Dwelling 1 130 MPH Vult. 101 MPH Vasc 0 Hr MFT10886-8015-70-3-32-2 40 PSF 6/15/2022 Matewall Girders Supporting Floor Load Only

75 plf

301 plf

376 plf

0 plf

D

L

D+L

Location: Matewall Supporting: Roof & 1 Floor

Wall height: 108 in Min sill height: 18 in 18 in LVL MOE (E): 2000000 psi

E min: 1016411 psi Fb: 2750 psi 285 psi Fv: Fcperp: 750 psi

Volume effect exp (e): 0.136

Cr (LVL): 1.04

Cr: 1.15 LL defl L/ 360 Cd: 1 TL defl L/ 240

Vertical Load

Dead Load:

Live Load:

Total Load:

Uplift Load:

Vertical

	Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	E	Emin	Fb'	Fv'	Α	S	1
1	1	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	13.9	21.4	98.9
2	1.5	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	20.8	32.1	148.4
3	2	1.5	9.25	SYP	#1	Edge	1	1.0	1050	175	565	1600000	580000	1050	175	27.8	42.8	197.9

10

	Shear	Moment	LL def	TL def
1	122	76	110	122
2	173	93	126	139
3	225	107	139	153
4				
5				
6				
7				
8				
9				
10				

		Reaction	ns (lbs)	Bearing
Member	Max Span	Gravity	Uplift	(in)
1 (1) 2x 10 SYP #1	75 in	1200	0	1.5
2 (1.5) 2x 10 SYP #1	92 in	1500	0	1.0
3 (2) 2x 10 SYP #1	107 in	1700	0	0.8
4				
5				
6				
7				
8				
9				
10				

VB-unprotected Single Family Dwelling

Location: Sidewall Supporting: Roof

<u>\</u>	/ertical	Load														Wall height:	108 i	n
Dead	l Load:	164	1 plf	D											M	in sill height:	18 i	n
Live	Load:	170) plf	Lr												LVL:	Microllam	
Tota	l Load:	334	1 plf	D+Lr											1	LVL MOE (E):	2000000	osi
Uplift Load: -178 plf .6D+Wn															E min:	1016411	osi	
Since defl						Since defle	e deflection doesn't govern the LDF between uplift and gravity (1.6 vs 1.25)									Fb:	2750	osi
					allow a maximum uplift per truss of (334*1.6/1.25*2ft=855lb)										Fv:	285	osi	
	Cr: :	1.15	LL defl L	/ 240												Fcperp:	750	osi
Cd: 1.25 TL defl L/ 180														Volume e	ffect exp (e):	0.136		
																Cr (LVL):	1.04	
Vertica	al																	
	Qty.	В	D	Species	Grade	Direction	Cfu	Cfb	Fb	Fv	Fcperp	Ε	Emin	Fb'	Fv'	Α	S	1
1	1	1.5	7.25	SYP	#1	Edge	1	1.0	1250	175	565	1600000	580000	1563	219	10.9	13.1	47.6
2	1	1.5	7.25	SPF	#2	Edge	1	1.2	875	135	425	1400000	510000	1313	169	10.9	13.1	47.6
3	1	1.5	7.25	LVL		Edge	1	1.1	2750	285	750	2000000	1016411	3681	285	10.9	13.1	47.6
4	2	1.5	7.25	SYP	#1	Edge	1	1.0	1250	175	565	1600000	580000	1563	219	21.8	26.3	95.3
5	2	1.5	7.25	SPF	#2	Edge	1	1.2	875	135	425	1400000	510000	1313	169	21.8	26.3	95.3
6	2	1.5	7.25	LVL		Edge	1	1.1	2750	285	750	2000000	1016411	3681	285	21.8	26.3	95.3
7																		
8																		
0																		

	Shear	Moment	LL def	TL def
1	128	77	120	116
2	102	70	115	111
	163	118	129	125
4	242	109	151	146
5	190	100	144	139
6	311	167	163	157
7				
8				
9				
10				

10

Mateline Connection: Load: 552.0 lb 0.131" nails EG: 88.44 lb

nails:

Connect porch truss to mateline header with (7) 0.131"x3" nails endgrain or per manual whichever is worse

7

Connections:

Connect truss to header with LTS18 strap: capacity 755lbs. Max Truss reaction for header @24" is 356lbs OK

Header to Column Corner: RTC-44 Bracket: capacity 1980lbs. Max reaction for header @ 7ft: 623lb OK

Column to Floor Corner: BC-40 Bracket: 510lbs LSTA18 Strap: 1115lbs Total: 1625lbs

Max reaction for header @ 7ft: 623lb OK

		Reaction	ns (lbs)	Bearing
Member	Max Span	Gravity	Uplift	(in)
1 (1) 2x 8 SYP #1	76 in	1100	-570	1.3
2 (1) 2x 8 SPF #2	70 in	1000	-520	1.8
3 (1) 2x 7.25 LVL	117 in	1700	-870	1.0
4 (2) 2x 8 SYP #1	108 in	1600	-810	0.7
5 (2) 2x 8 SPF #2	99 in	1400	-740	0.9
6 (2) 2x 7.25 LVL	156 in	2200	-1160	0.5
7				
8				
9				
10				





VB-unprotected Single Family Dwelling

Porch Column Sidewall and Matewall Supporting: Roof

<u>Vertical Load</u> <u>Lateral Load</u>							Combined Vert and Lat (max Lat) Wall				III height:	108 in				
NDS Load:	334	plf	D+Lr		Lateral only					Vertical:	150	plf	0	Top/Btm F	Plate (tp):	0 in
Total Load:	334	plf	D+Lr		Stud area:	27.	0 ft^2			Lateral:	5	psf	W		LVL:	Microllam
Uplift Load:	-178	plf	.6D+Wn		Lateral:		5 psf	W		Combined	Vert and La	t (max Ve	ert)	LVL	MOE (E):	2000000 psi
										Vertical:	334	plf	0		E min:	1016411 psi
										Lateral:	3.8	psf	.75W		Fb:	2750 psi
					def=.7	C&C				Combined	Uplift and L	.at			Fv:	285 psi
Cr:	1									Vertical:	-178	plf	.6D+Wn		Fcperp:	750 psi
Cd:	1.6									Lateral:	3.8	psf	W	V	ol eff (e):	0.136
Cd grav:	1.25		La	ateral de	eflection L/ 1	20									Cr (LVL):	1.04
Vertical																
Spacing	В	D	Species	Grade	С	le/D	Cfb	CfC	Fb	Fc (grav)	Fc (comb)	Fcperp	Е	Emin	FcE	Ft
1 16	3.5	3.5	SYP	#2	8.0	30.9	1.0	1.00	1100	1450	1450	565	1400000	510000	440	675
									Ср	0.23	0.18					
Header	1.5	inches						Allowable:	1760	416	422	565	1400000	510000		1080

# of St	1		
Proper	ties		
Area	in^2		12.3
Sx i	n^3		7.1
lx i	n^4		12.5
Axial L	oading		
Fc com	pression		183
Fc Per	o compression		106
Tensio	n		892
Fcperp)		
Combi	ned Loading		
Uplift/	Lateral		892
Vert/L	ateral max Lat		398
Vert/L	ateral Max Vert		180
Deflect	tion Check	L/	1921
			OK
			106

Max Span	Max Trib
1	106 in

N	Max Side Opening 17 ft -	
209 in =	17 ft -	5 in

Notes: Center column is total span on both sides of column. Side column is total clear span All studs are to be braced in weak axis by gypsum or sheathing. Center column must be in center 1/3 of span. Studs must be as wide as header.



FLORIDA BUILDING CODE, ENERGY CONSERVATION						
Residential Building Thermal Envelope Approach						
R-Value Computation Method						
FORM R402—2020	Florida Climate Zone : 2					
	BUILDER:					
PROJECT NAMEAND ADDRESS:	PERMITTING OFFICE:					
MFT-10886-8015-70-3-32-2 sw coyote cir FORT WHITE FL, 32038	JURISDICTION NUMBER:					
OWNER: DEWEES	PERMIT NUMBER:					
PERMIT TYPE: Residential	NUMBER OF UNITS: 2					
WORST CASE?	CONDITIONED FLOOR AREA: 1983					

Scope: Compliance with Section R402.1.2 of the Florida Building Code, Energy Conservation, shall be demonstrated by the use of Form R402 for single- and multiple-family residences of three stories or less in height, additions to existing residential buildings, alterations, renovations and building systems in existing buildings, as applicable. To comply, a building must meet or exceed all of the energy efficiency requirements and applicable mandatory requirements summarized on this form. If a building does not comply with this method, or by the UA Alternative method, it may still comply under Section R405 or R406 of the Florida Building Code, Energy

General Instructions:

1. Lifill in all the applicable spaces of the "INSTALLED" row in the INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT table with the information requested. All "INSTALLED" values must be equal to or more efficient than the required levels. "AVG" indicates an area weighted average is allowed; "LOWEST" indicates the lowest R-value to be installed must be entered.

2. 2. Complete the tables for air infiltration and installed equipment.

- 3. 3.Read the MANDATORY REQUIREMENTS table and check each box to indicate your intent to comply with all applicable items.
- 4. 4.Read, sign and date the "Prepared By" certification statement at the bottom of this form. The owner or owner's agent must also sign and date the form,

apps

INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT¹

REQUIREMENTS	FENESTRATIONU- FACTOR ^{2, 3, 4}	SKYLIGHT ² U- FACTOR	GLAZEDFENESTRATIONSHGC ² .	CEILINGR- VALUE		MASS WALLR- VALUE ^{5, 6}	FLOOR <i>R</i> - VALUE	BASEMENTWALL R- VALUE	SLAB ⁷ R- VALUE &DEPTH	CRAWLSPACEWALL R- VALUE
CLIMATE ZONE 1	NR	0.75	<u>0.25</u>	<u>30</u>	<u>13</u>	<u>3/4</u>	<u>13</u>	<u>0</u>	<u>0</u>	<u>0</u>
CLIMATE ZONE 2	0.40	0.65	<u>0.25</u>	<u>38</u>	<u>13</u>	<u>4/6</u>	<u>13</u>	<u>0</u>	<u>0</u>	<u>0</u>
<u>VALUE</u>	<u>AVG</u>	<u>AVG</u>	<u>AVG</u>	LOWEST	<u>LOWEST</u>	<u>LOWEST</u>	LOWEST	<u>LOWEST</u>	LOWEST	<u>LOWEST</u>
INSTALLED:	.34		.21 for GRID/ .24 NO GRID	38	19		30			

R-Value Calculation Method - [PASS / FAIL]

For SI: 1 foot = 304.8 mm; NR = No requirement.

- 1. (1)R-values are minimums. Ú-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.
- 2. (2)The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.
- 3. (3) For impact rated fenestration complying with Section R301.2.1.2 of the Florida Building Code, Residential or Section 1609.1.2 of the Florida Building Code, Building, the maximum U-factor shall be 0.65 in Climate Zone 2. An area-weighted average of U-factor and SHGC shall be accepted to meet the requirements, and up to 15 square feet of glazed fenestration area are exempted from the U-factor and SHGC requirement based on Section R402.3.1, R402.3.2 and R402.3.3.
- 4. (4)One side-hinged opaque door assembly up to 24 square feet is exempted from this U-factor requirement based on Section R402.3.4.
- (5)R-values are for insulation material only as applied in accordance with manufacturer's installation instructions.
 (6)The second R-value applies when more than half the insulation is on the interior of the mass wall.
- 7. (7)R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3 for heated slabs.

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Air Blower door test is required on the building envelope to verify leakage ≤ 7 ACH50; test report must be provided to code official before CO is issued. Florida Building Code, Energy Conservation Section infiltration: R402.4.1.2 testing exception may apply for additions, alterations, or renovations

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Florida Manufactured Building Act and adopted Codes and adhere to the following criteria: APPROVED BY

Const. Type: VB-unprotected Occupancy: Allowable No. Single Family Dwelling of Floors: Wind Velocity: 130 MPH Vult, 101 MPH Vasc Fire Rating of Ext. Walls: 0 Hr Plan No 1 MFT10886-8015-70-3-32-2 Plan No.:
Allow. Floor Load: 40 PSF 6/15/202



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



FORM R402—continued EQUIPMENT REQUIREMENTS AND INSTALLED VALUES

Fill in the "INSTALLED EFFICIENCY LEVEL" column with the information requested. For multiple systems of the same type, indicate the minimum efficient system. All "INSTALLED" values must be equal to or more efficient than the required level. If a listed "SVSTEM TVPE" is not to be installed, write in "N/A" for not applicable.

SYSTEM TYPE	MINIMUM EFFICIENCY LEVEL REQUIRED	INSTALLED EFFICIENCY LEVEL
Air distribution system ¹	Not allowed in attic	Location: ON SITE
Air handling unit	<u>Factory Sealed</u>	Factory Sealed? Y/N
Duct <i>R</i> -value	= R-8 (Ducts in unconditioned attics, Diameter ≥ 3 in.)	R-Value (In unc. attic) =
	= R-6 (Ducts in unconditioned non attics, Diam. ≥ 3 in.)	R-Value (In unc. non attics) =
	= R-6 (Ducts in unconditioned attics, Diameter < 3 in.)	R-Value (Small ducts in attic) =
	= R-4.2 (Ducts in unconditioned not attics, Diam. < 3 in.)	R-Value (Small ducts in unc) =
	All ducts are in conditioned space (No minimum)	All in conditioned space ? N
Air leakage/Duct test	Air handler installed: Total leakage = 4 cfm/100 s.f.	ON SITE
	Air handler not installed: Total leakage = 3 cfm/100 s.f.	Total leakage = cfm/100 s.f.
		Air handler installed? Y
Duct testing	Test not required if all ducts and AHU are within the building thermal envelope andfor additions or alterations where ducts extended from existing heating and cooling system through unconditioned space are < 40 linear ft.	Test report required? N
Air conditioning systems:	Minimum federal standard required by NAECA2:	ON SITE
Central system ≤ 65,000 Btu/	n <u>SEER 14.0</u>	SEER (Min)=
<u>PTAC</u>	EER [from Table C403.2.3(3)]	EER (Min)=
Other:	See Tables C403.2.3(1)-(11)	Type = Effic. (min) =
Heating systems:	Minimum federal standard required by NAECA2:	
Heat pump ≤ 65,000 Btu/h	<u>HSPF ≥ 8.2</u>	HSPF (Min) =
Gas furnace, non-weatherize	1 <u>HSPF ≥ 80%</u>	AFUE (Min) =
Oil furnace, non-weatherized	<u>HSPF ≥ 83%</u>	AFUE (Min) =
Other:		Type = Effic. (min) =
Water heating system (storag type):	Minimum federal standard required by NAECA ² :	Capacity =
Electric ^{3, 6}	<u>UEF 40 gal. 0.923; 50 gal.: 0.921; 60 gal.: 2.051</u>	UEF (Min) =
Gas fired4.6	<u>UEF 40 gal. 0.580; 50 gal.: 0.563; 60 gal.: 0.766</u>	UEF (Min) =
Other (describe)5.6:		Type = Effic. (min) =

Equipment Efficiency—[PASS / FAIL]

- 1. [1]Ducts & AHU installed "substantially leak free" per Section R403.3.2. Test required by either individuals as defined in Section 553.993(5) or (7), Florida Statutes, or individuals licensed as set forth in Section 489.105(3)(f), (g), or (i), Florida Statutes. The total leakage test is not required for ducts and air handlers located entirely within the building thermal envelope, and for additions where ducts from an existing heating and cooling system extended to the addition through unconditioned space are less than 40 linear ft.
- 2. (2)Minimum efficiencies are those set by the National Appliance Energy Conservation Act of 1987 for typical residential equipment and are subject to NAECA rules and regulations. For other types of equipment, see Tables C403.2.3 (1-11) of the Commercial Provisions of the Florida Building Code, Energy Conservation.
- 3. (3)For electric storage volumes \leq 55 gallons, minimum UEF = 0.9349 (0.0001 * volume). For electric storage volumes \geq 55 gallons, minimum UEF = 2.2418 (0.0011 * volume).
- 4. (AFor natural gas storage volumes < 55 gallons, minimum UEF = 0.692 (0.0013 * volume). For natural gas storage volumes > 55 gallons, minimum UEF = 0.8072 (0.0003 * volume).
- 5. (5) For electric tankless, min. UEF = 0.92. For natural gas tankless, min. UEF = 0.81.
- 6. (6)Referenced UEFs shown are for medium draw pattern value provided by manufacturer.

MANDATORY REQUIREMENTS								
<u>Component</u> <u>Section</u>		Summary of Requirements	Check					
Air leakage R402.4		To be caulked, gasketed, weatherstripped or otherwise sealed perTable R402.4.1.1. Recessed lighting IC-rated as having ≤ 2.0 cfmtested to ASTM E283.Windows and doors: 0.3 cfm/sq.ft (swinging doors: 0.5 cfm/sf) whentested to NFRC 400 or AAMA/WDMA/CSA 101/l.S. 2/A440.Fireplaces: Tight-fitting fludampers & outdoor combustion air						
Programmable thermostat	<u>R403.1.2</u>	A programmable thermostat is required for the primary heating orcooling system.	Х					
Air distribution system	R403.3.2R403.3.4	Ducts shall be tested as per Section R403.3.2 by either individualsas defined in Section 553.993(5) or (7), Florida Statutes, orindividuals licensed as set forth in Section 489.105(3) (f), (g) or (i), Florida Statutes. Air handling units are not allowed in attics.	ON SITE					
Water heaters	<u>R403.5</u>	Comply with efficiencies in Table C404.2. Hot water pipes insulated to ≥ R-3 to kitchen outlets, other cases. Circulating systems to havean automatic or accessible manual OFF switch. Heat trap required for vertical pipe risers.	×					
Cooling/heating equipment	<u>R403.7</u>	Sizing calculation performed & attached. Special occasion coolingor heating capacity requires separate system or variable capacitysystem.	×					
Swimming pools & spas	R403.10	Spas and heated pools must have vapor-retardant covers or aliquid cover or other means proven to reduce heat loss except if70% of heat from site-recovered energy. Off/timer switch required.Gas heaters minimum thermal efficiency is 82%. Heat pump poolheaters minimum COP is 4.0.	NA					
<u>Lighting equipment</u>	<u>R404.1</u>	Not less than 90% of the lamps in permanently installed luminairesshall have an efficacy of at least 45 lumens-per-watt or shall utilizelamps with an efficacy of not less than 65 lumens-per-watt.	ON SITE					
	this form arein compliance with the Florida Fracie Terry n compliance with the Florida Building Code, Date:	Review of plans and specifications covered by this form indicatecompliance with the Florida Bu Code, Energy Conservation. Beforeconstruction is complete, this building will be inspected for compliance inaccordance with Section 553.908, F.S.CODE OFFICIAL: Date:	ilding					

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



FL MODULAR

WINDOWS ARE WITH GRIDS U.VALUE— 0.34 SHGC—0.21

U.VALUE- 0.32 FOR TRANSOM WINDOWS SHGC-0.33

DOORS

38"X80" STEEL DOOR 0.17 0.01 38"X80" 1/2 ATRIUM 0.43 0.30 38"X80" STEEL DOOR 0.34 0.19 6" SIDE WALLS 9'-0" CEILIINGS

R-30

R-19

R-38

INSULATION VALUES

FLOOR

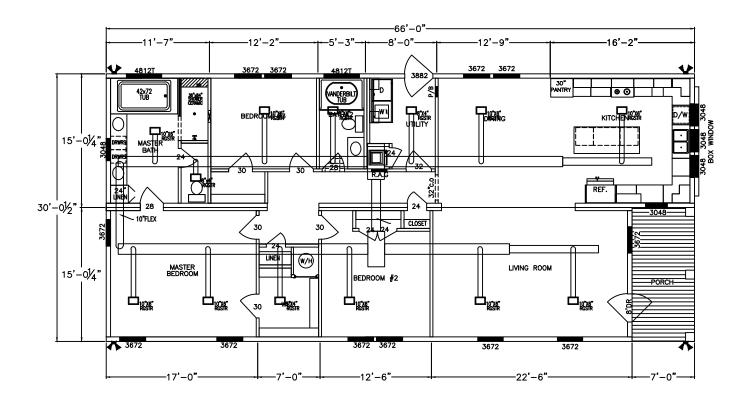
WALLS

ROOF

MODULAR HOME UP-FLOW HEAT DUCT

PHYSICAL ADDRESS

sw coyote cir FORT WHITE FL, 32038 COLUMBIA COUNTY 6/12 HINDGED ROOF 9; CEILING HEIGHT



These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Cocupancy: Single Fi
Allowable No. of Floors: 130 MPF
Wind Velocity: Fire Rating of Ext. Wals: 9HF
Plan No.: 40 PSF
Approval Date: 6/15/202

VB-unprotected
Single Family Dwelling

130 MPH Vult, 101 MPH Va

MFT10886-8015-70-3-32add: 40 PSF 6/15/2022

			BY:	DATE:	
$\overline{}$		DRAWN:			
		CHKD:			
abla		SCALE:	N.1	r.s.	

I <u>FRANKLIN STRUCTURES. L</u>	<u>LC. RUSSELLVILLE, ALABAN</u>	IA .	
TITLE:	NO:	REV:	SHT:
UPFLOW HEAT DUCT	FP-8015-70-3-32-2		



Load Short Form Entire House

These prints comply with the Florida Manufactured Buildir Act and adopted Codes and adhere to the following criter



Job: MFT-10886-8015-70-3-32-2

Date: 6/7/22

y: AMS of Indiana, Inc.

Project Information

For: FRANKLIN STRUCTURES, MFT-10886-8015-70-3-32-2

Design Information							
Htg Clg Infiltration							
Outside db (°F)	27	96	Method	Simplified			
Inside db (°F)	70	75	Construction quality	Average			
Design TD (⁰F)	43	21	Fireplaces	1 (Average)			
Daily range	-	L	·	, -,			
Inside humidity (%)	30	50					
Moisture difference (gr/lb)	16	78					

HEATING EQUIPMENT

COOLING EQUIPMENT

Make	Generic			Make	Generic		
Trade				Trade			
Model	AFUE 100			Cond	SEER 14.0	1	
AHRI ref				Coil			
				AHRI ref			
Efficiency		100 AFUE		Efficiency	1:	2.2 EER, 14 SEER	
Heating inpu	ıt	7.9	kW	Sensible co	ooling	22590	Btuh
Heating outp	out	26807	Btuh	Latent cool	ing	9682	Btuh
Temperature	e rise	25	°F	Total coolin	g	32272	Btuh
Actual air flo	OW	960	cfm	Actual air f	low	960	cfm
Air flow fact	or	0.038	cfm/Btuh	Air flow fac	tor	0.045	cfm/Btuh
Static press	ure	0.30	in H2O	Static press	sure	0.30	in H2O
Space therm				Load sensil	ole heat ratio	0.74	

ROOM NAME	Area (ft²)	Htg load (Btuh)	Clg load (Btuh)	Htg AVF (cfm)	Clg AVF (cfm)
BA1	176	2759	1503	106	67
T	28	85	75	3	3
B3	157	1991	2367	76	106
BA2	61	692	493	26	22
HALL	105	0	0	0	0
UTL	88	1295	833	50	37
D/R KIT	431	6313	4835	241	217
B1	255	4031	3987	154	179
WIC	55	728	383	28	17
C/L	23	0	0	0	0
B2	188	2176	2878	83	129
L/R	l 338 l	5037	4084	193	183

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



Entire House Other equip loads Equip. @ 1.01 RSM Latent cooling	1903	25108 1699	21437 842 22591 7960	960	960
TOTALS	1903	26807	30550	960	960

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

Job: MFT-10886-8015-70-3-32-2

Date: 6/7/22

AMS of Indiana, Inc.

Project Information

For: FRANKLIN STRUCTURES, MFT-10886-8015-70-3-32-2

Notes:

APPROVED BY

Design Information

Weather: St Augustine, FL, US

Winter Design Conditions

Summer Design Conditions

Outside db Inside db	27 ℉ 70 ℉	Outside db Inside db	96 °F 75 °F
Design TD	43 ℉	Design TD Daily range	21 ℉ L
		Relative humidity Moisture difference	50 % 78 gr/lb

Heating Summary

Sensible Cooling Equipment Load Sizing

Structure Ducts Central vent (36 cfm) Outside air	19486 5622 1699	Btuh Btuh Btuh	Structure Ducts Central vent (36 cfm) Outside air	16221 5216 842	Btuh Btuh Btuh
Humidification	0	Btuh Btuh	Blower	0	Btuh
Piping Equipment load	26807	Btuh	Use manufacturer's data	r	ı
Infiltration			Rate/swing multiplier Equipment sensible load	1.01 22591	Btuh

Method	Simplified
Construction quality Fireplaces	Average 1 (Average)

	Heating	Cooling
Area (ft²)	1903	1903
Volume (ft ³)	17128	17128
Air changes/hour	0.45	0.20
Equiv. AVF (cfm)	128	57

Latent Cooling Equipment Load Sizing

Structure Ducts Central vent (36 cfm)	4012 2062 1886	Btuh
Outside air Equipment latent load	7960	Btuh
Equipment Total Load (Sen+Lat)	30550	Rtuh

550 Btuh 2.7 ton Req. total capacity at 0.70 SHR

Generic

Heating Equipment Summary

Make	Generic		
Trade			
Model	AFUE 100		
AHRI ref			

Efficiency	100 AFUE
Heating input	7.9 kW
Heating output	26807 Btuh
Temperature rise	25 ℉
Actual air flow	960 cfm
Air flow factor	0.038 cfm/Btuh
Static pressure	0.30 in H2O
Space thermostat	

Cooling Equipment Summary

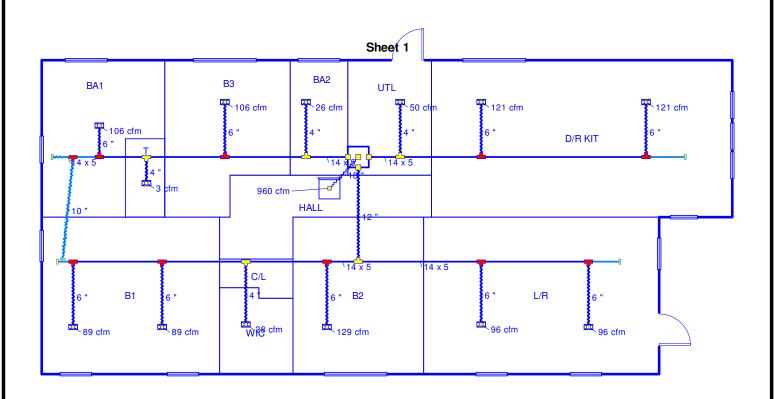
Cond	SEER 14.0)		
Coil				
AHRI ref				
Efficiency		12.2 EER, 1	4 SEER	
Sensible co	oling	,	22590	Btuh
Latent coolir	ng Ö		9682	Btuh
Total cooling	มั		32272	Btuh
Actual air flo	ów		960	cfm
Air flow fact	or		0.045	cfm/Btuh
Static press	ure		0.30	in H2O
Load sensib	le heat ratio		0.74	

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

Make

Trade





These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:



| Main |

Job #: MFT-10886-8015-70-3-32
Performed by AMS of Indiana, Inc. for:
FRANKLIN STRUCTURES

Page 1 Right-Suite® Universal 2022 22.0.01 RSU02009 2022-Jun-07 08:53:18 ...10886 8015-70-3-32-2UFL-FL-MOD....

Scale: 1:110

Job: MFT- 10886-8015-70-3-32-2

Date: 6/7/22

AMS of Indiana, Inc.

Project Information

For: FRANKLIN STRUCTURES, MFT-10886-8015-70-3-32-2

Heating Cooling 0.30 in H2O External static pressure 0.30 in H2O 0.06 in H2O Pressure losses 0.06 in H2O Available static pressure 0.24 in H2O 0.24 in H2O Supply / return available pressure 0.190 / 0.050 in H2O 0.190 / 0.050 in H2O Lowest friction rate 0.078 in/100ft 0.078 in/100ft Actual air flow 960 cfm 960 cfm Total effective length (TEL) 307 ft

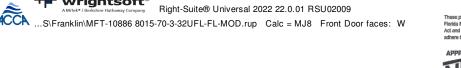
Supply Branch Detail Table

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
B1	С	1993	77	89	0.080	6.0	0x 0	VIFx	42.5	195.0	st4
B1-A	С	1993	77	89	0.079	6.0	0x 0	VIFx	34.0	205.0	st4
B2	С	2878	83	129	0.078	6.0	<i>0</i> × <i>0</i>	VIFx	18.3	225.0	st4
B3	С	2367	76	106	0.107	6.0	0x 0	VIFx	17.0	160.0	st3
BA1	h	2759	106	67	0.114	6.0	0x 0	VIFx	26.8	140.0	st3
BA2	h	692	26	22	0.109	4.0	0x 0	VIFx	9.3	165.0	st3
D/R KIT	h	3157	121	108	0.122	6.0	<i>0</i> × <i>0</i>	VIFx	16.0	140.0	st1
D/R KIT-A	h	3157	121	108	0.117	6.0	<i>0</i> × <i>0</i>	VIFx	31.8	130.0	st1
L/R	h	2518	96	91	0.082	6.0	0x 0	VIFx	37.3	195.0	st5
L/R-A	h	2518	96	91	0.082	6.0	0x 0	VIFx	26.8	205.0	st5
Т	С	75	3	3	0.111	4.0	0x 0	VIFx	21.8	150.0	st3
UTL	h	1295	50	37	0.120	4.0	0x 0	VIFx	8.3	150.0	st1
wic	h	728	28	17	0.079	4.0	0x 0	VIFx	25.8	215.0	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 st1 st4 st5 st2	Peak AVF Peak AVF Peak AVF Peak AVF Peak AVF	211 291 265 193 458	199 254 325 183 508	0.107 0.117 0.078 0.082 0.078	435 599 668 396 646	7.6 8.4 9.5 7.7 12.0	5 x 14 5 x 14 5 x 14 5 x 14 0 x 0	ShtMetI ShtMetI ShtMetI ShtMetI VinIFIx	st2 st2

Bold/italic values have been manually overridden



₩wrightsoft®





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	0x 0	960	960	64.1	0.078	543	18.0	0x 0		VIFx	

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY



onst. Type: VB-u
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Floors:
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Ow. Floor Land:
I 40 PS
anufacturer:
Frank

VB-unprotected
Single Family Dwelling

1
130 MPH Vult. 101 MPH Va
0 Hr
MFT 10886-8015-70-3-32-2
d: 40 PSF
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	Single Family Dwelling
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PRODUCT APPROVAL SPECIFICATION SHEET

Manufacturer:	Franklin Structures, LLC.	Plan #: MFT10866-8015-70-3-	32-2
Manufacturer:	Franklin Structures, LLC.	Plan #: MF 11086	6-8015-70-3-

As required by Florida Statute 553.842 and Florida Administrative Code 61G20-3.006 please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the

Category	Manufacturer	obtained at www.floridabuilding.org. Product Description	Approval #(s)
EXTERIOR DOORS	Wallulacturei	Froduct Description	Appiovai #(s)
	Durchanten	Ashiover Ctast France	45000 D0
Swinging	Dunbarton	Achiever Steel Frame	15362 R3
Sliding	Jeld-Wen	Sliding Glass Door	11109 R9
Swinging	Dunbarton	ATRUIM Frame	9231 R7
		362.3,15362.9, 15362.12,	
Sliding	VIWINCO	Sliding Glass Door	15590 R10
Sliding	MI	Sliding Glass Door	21638
WINDOWS			
Single Hung	KINRO	WINDOWS	993.2 R18
Picture Window	MI	WINDOWS	21639
Single Hung	MI	WINDOWS	21637
Single Hung	VIWINCO	WINDOWS	15576 R9
	VIVVINCO	WINDOWS	15576 KS
ROOFING PRODUCTS	Des (Messell O		40740 D0
Metal roof	Roof Mart LLC	26 GA PBR ROOF PANEL(12718.1)	12718-R3
Underlayments	FTSYNTHETICS INC	METAL ROOFING UNERLAYMENT	20853-R4
Asphalt Shingles	Owens Corning	Classic 3-Tab	10674-R16
Underlayments	Owens Corning	Oakridge	17420.1-R6
Asphalt Shingles	Tamko Shingles	Classic 3-Tab	18355-R8
PANEL WALL			
Siding	CEMI	PLANK LAP SIDING	13192 R6
Siding	ROYAL BUILDI	NG PRODUCTS(D45DLSTD)	21069 R3
Siding	ELM G	ROVE PVC SIDING	19130.1R7
Soffits	LP	SMART SOFFIT	9103-R6
Soffits	ŀ	HARDIESOFFIT	13265 R6
STRUCTURAL COMPONEN	TS		
Wood Connector / Anchor	Simpson	HDU11-SDS2.5	10441 R6
Wood Connector / Anchor	Simpson	HD3B	11496 R6
Wood Connector / Anchor	Simpson	HDQ8	10441-R6
Wood Connector / Anchor	Simpson	CMSTC16	10852/13872 R4
Wood Connector / Anchor	Simpson	LSTA18	10456.15
Wood Connector / Anchor	Simpson	STHD14	10441.12
Truss Plates	MiTek	MT18 & MT20	2197 R9
Engineered Lumber	Weyerhauser	Microllam LVL	6257 R13
Engineered Lumber	Versa-lam	Microllam LVL	1644-R9
of inspection of these products manufacturing plant: (1) Copy of the information listed on Fo requirements.	s, the following information of the product approval fr rm No. 9B-72.130(5). (2)	approval at plan review. I understand must be available to the inspector om the Local or State Building Com Copy of the applicable manufacturer approval cannot be demonstrated of	at the mission, or supply all 's' installation
Robert K Gann Manufacturer's Authorized Agei		-	5/17/2022 Date



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

RE: MH7281R24-FL20 -

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

314-434-1200

Site Information:

Customer Info: Franklin Structures, LLC Project Name: . Model: .

Lot/Block: .

Address: ., .

City: .

State: .

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

Subdivision: .

License #:

Address:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: 140 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 2 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.

Truss Name Date No. Seal# 145895620 4/29/21 1 2 145895621 4/29/21

This item has been electronically signed and sealed by Fox, Steve, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

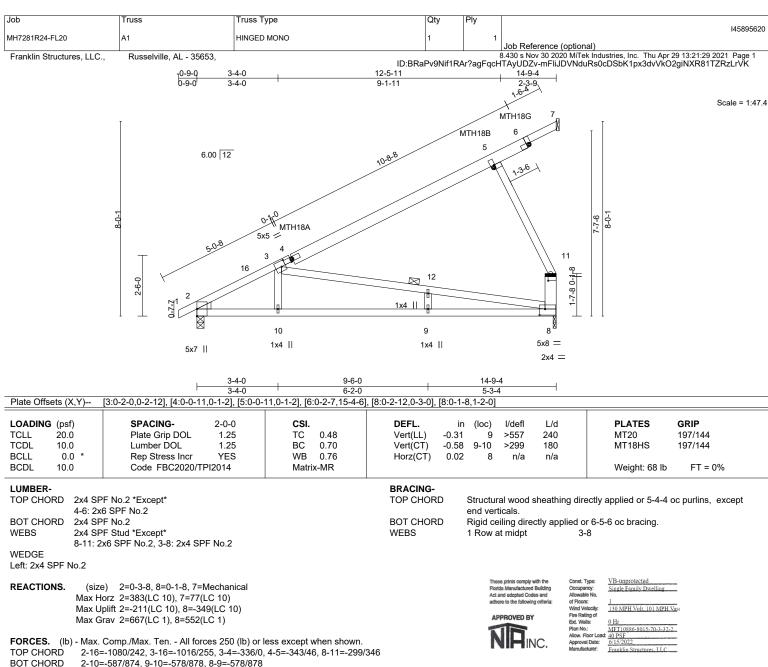
Truss Design Engineer's Name: Fox, Steve

My license renewal date for the state of Florida is February 28, 2023.

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.



April 29,2021



WEBS 3-10=0/333, 3-12=-742/421, 8-12=-749/413, 5-11=-332/384

REQUIRED FIELD JOINT CONNECTIONS

- Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)

11=332/384/166/0

NOTES-

- 1) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-0 to 2-3-0, Interior(1) 2-3-0 to 14-8-8 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) See HINGE PLATE DETAILS for plate placement.
- 5) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 6) All additional member connections shall be provided by others for forces as indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 2 and 349 lb uplift at joint 8.

This item has been electronically signed and sealed by Fox, Steve, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Steven E. Fox PE No.44975 MiTek USA, Inc. FL Cert 6634 16023 Swingley Ridge Road, Chesterfield, MO 63017

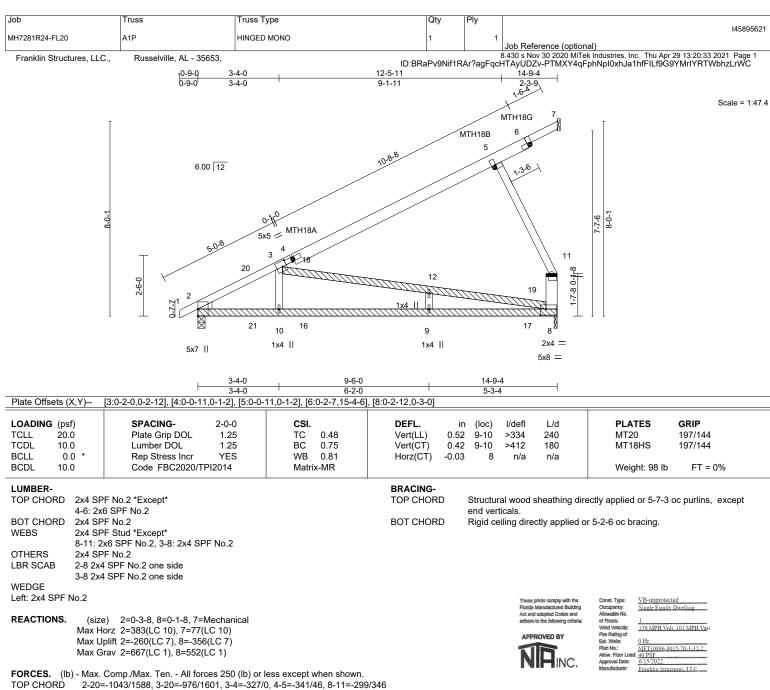
April 29,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chore 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD 2-21=-1756/841, 10-21=-1756/841, 10-16=-1750/841, 9-16=-1750/841, 9-17=-1750/841,

8-17=-1750/841

WEBS 3-10=-574/288, 3-18=-705/1594, 12-18=-705/1594, 12-19=-712/1628, 8-19=-712/1628,

5-11=-332/384

REQUIRED FIELD JOINT CONNECTIONS - Maximum Compression (lb)/ Maximum Tension (lb)/ Maximum Shear (lb)/ Maximum Moment (lb-in)

11=332/384/166/0

NOTES-1) Attached 14-9-4 scab 2 to 8, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-3-0 from end at joint 2, nail 1 row(s) at 4" o.c. for 4-1-0; starting at 12-6-8 from end at joint 2, nail 1 row(s) at 7" o.c. for 2-0-0.

2) Attached 10-11-10 scab 3 to 8, front face(s) 2x4 SPF No.2 with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.

- 3) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=108mph; TCDL=6.0psf; BCDL=6.0psf; h=24ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-0 to 2-3-0, Interior(1) 2-3-0 to 14-8-8 zone; end vertical left exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) See HINGE PLATE DETAILS for plate placement.
- 7) Provisions must be made to prevent lateral movement of hinged member(s) during transportation.
- 8) All additional member connections shall be provided by others for forces as indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads

This item has been electronically signed and sealed by Fox, Steve, PE using a Digital Signature.

Printed copies of this

Steven E. Fox PE No.44975 MiTek USA, Inc. FL Cert 663 16023 Swingley Ridge Road, Chesterfield, MO 63017

April 29,2021

document are not considered

signed and sealed and the

signature must be verified

on any electronic copies.

nued on page 2

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	
MH7281R24-FL20	A1P	HINGED MONO	1	145	5895621
				Job Reference (optional)	

Franklin Structures, LLC.,

Russelville, AL - 35653,

8.430 s Nov 30 2020 MTek Industries, Inc. Thu Apr 29 13:20:34 2021 Page 2 ID:BRaPv9Nif1RAr?agFqcHTAyUDZv-tfwvmQrta?Vgw9WttHYwCSrWPZcOHp4Rn5C377zLrWB

NOTES-

- 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) Refer to girder(s) for truss to truss connections.
- 12) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 8.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 260 lb uplift at joint 2 and 356 lb uplift at joint 8.



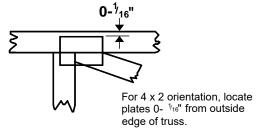
VB-unprotected 0 Hr MFT1088 40 PSF 6/15/2022

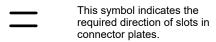
Symbols

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.





^{*} Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated

BFARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

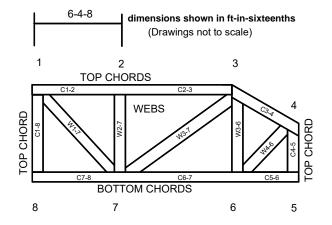
DSB-89: Design Standard for Bracing.

BCSI:

Building Component Safety Information, Guide to Good Practice for Handling. Installing & Bracing of Metal Plate

Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

These prints comply with the Florida Manufactured Building PRODUCT CODE APPROACH AND A CONTROL OF THE PROPERTY OF THE PRO

ICC-ES Reports:

Fire Rating of Ext. Walls: Plan No. ESR-1311, ESR-1352, ESF Approx ER-3907, ESR-2362, ESR-1397, ESR-3282 Manufacture (Control of the Control of the Allow. Floor Load: 40 PSF Approval Date:

Const. Type: VB-unprotected Single Family Dwelling Wind Velocity: 130 MPH Vult. 101 MPH

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

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

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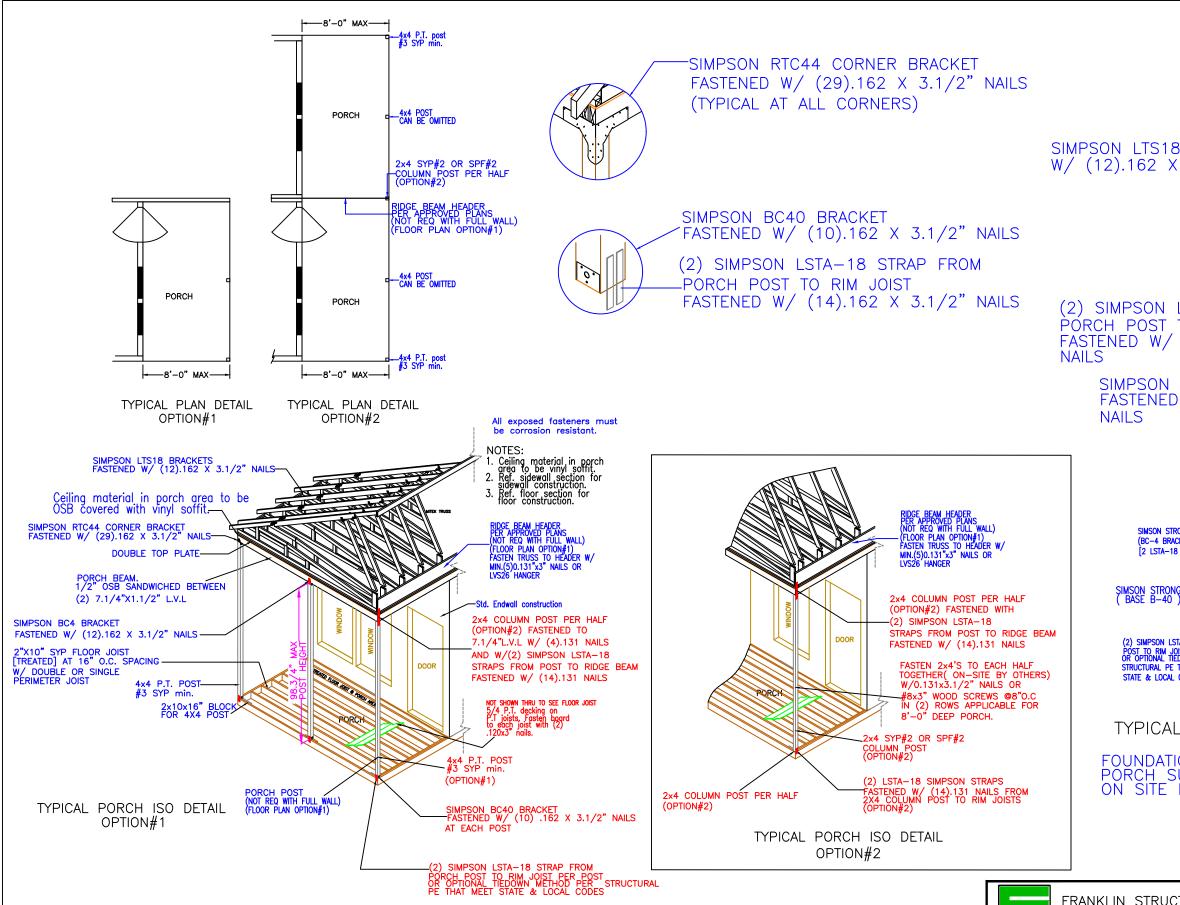
MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

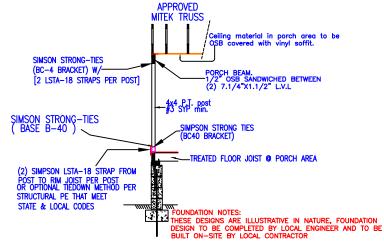
- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- 3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- 6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing. or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- 16. Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- 19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



SIMPSON LTS18 BRACKET FASTENED
W/ (12).162 X 3.1/2" NAILS

(2) SIMPSON LSTA-18 STRAP FROM PORCH POST TO 7.1/4" L.V.L FASTENED W/ (14).162 X 3.1/2" NAILS

SIMPSON BC4 BRACKET FASTENED W/ (12).162 X 3.1/2" NAILS



TYPICAL POST CROSSSECTION DETAIL

FOUNDATION NOTES: PORCH SUPPORT SYSTEM & CONNECTIONS ON SITE BY LOCAL ENGINEER.

These prints comply with the Florida Manufactured Building Act and adopted Codes and adhere to the following criteria:

APPROVED BY

Omst. Type:

VB-umprotected
Single Family Dwelling
Indevated No.

1 130 MPH Volt. 101 MPH
the Rating of
MC Walsie
MC

APPLICABLE TO:
2012 & 2015 IRC
5PSF MAX. GROUND SNOW LOAD
180" MAX. UNIT WIDTH
WIND SPEED:
130MPH Vasd.
167MPH Vult.
EXPOSURE "C"
20' MAX MEAN ROOF HEIGHT.



FRANKLIN STRUCTURES, LLC. 10655 HWY. 43 SOUTH RUSSELLVILLE, ALABAMA 35653 Phone:(256)332-4510 Fax:(256)331-2206

MODULAR



ONAL

Jun 14, 2022

BY: DATE:
DRAWN: STAFF 3-19-20

GRAPHIC 0 1'2'3'4'5'
SCALE

TITLE:
TYPICAL PORCH DETAIL

NO:
MTF-10886-8015-70-3-32-2

REV: SHEET:

NOTES!!

Plan may be built Flip image (Front end to Rear end) or reverse image (top side to bottom side) without specific plan showing each arrangement using standard model approved