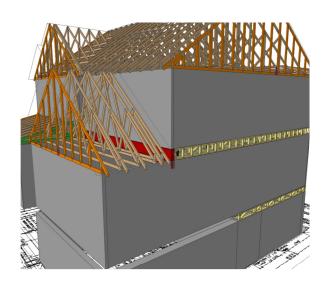


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

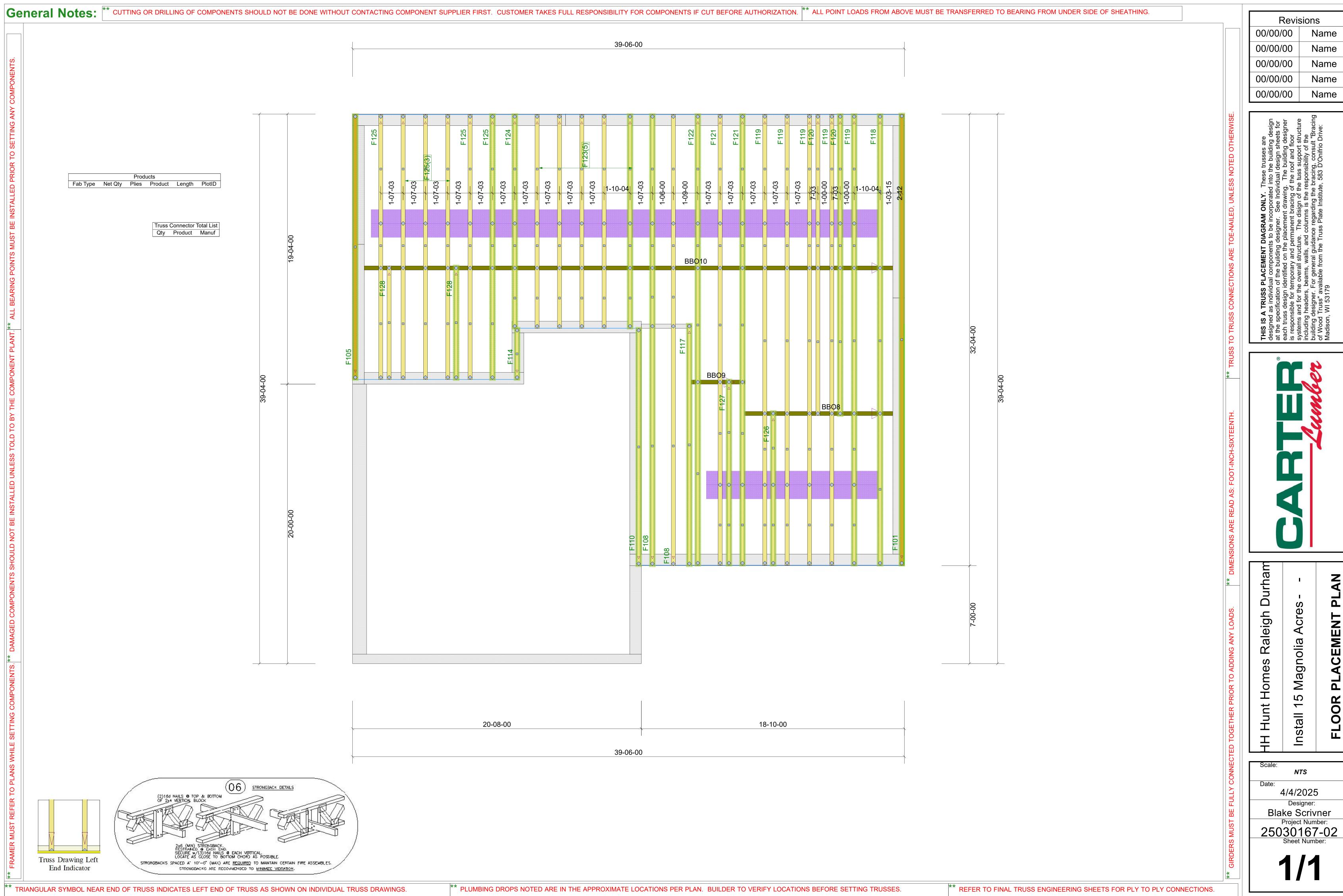
Builder: Raleigh Durham Install 15 Magnolia Model: Acres - -



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
--------------	-------



PLACEMENT

FLOOR



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25030167-02

Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG TMB FE GLH

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I72473804 thru I72473820

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



April 3,2025

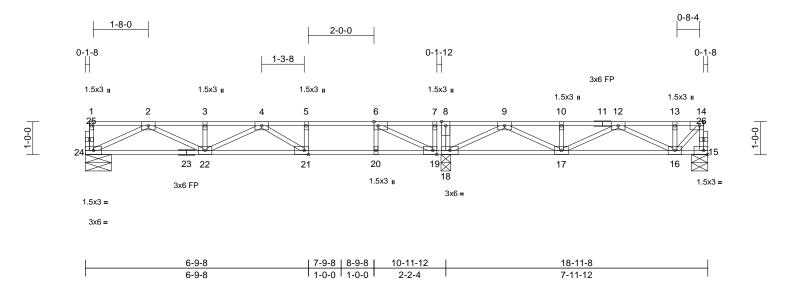
Gilbert, Eric

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.

Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F125	Floor	6	1	I72473804 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42

Page: 1



Scale = 1:35.1

Plate Offsets (X, Y): [6:0-1-8,Edge], [14:0-1-8,Edge], [19:0-1-8,Edge], [21:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.93	Vert(LL)	-0.20	21-22	>653	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.27	21-22	>476	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 94 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 15=0-6-0, 18=0-3-8, 24=0-9-8

Max Grav 15=341 (LC 8), 18=845 (LC 1),

24=475 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-24=-56/0, 14-15=-345/0, 1-2=-4/0, 2-3=-1344/0, 3-4=-1344/0, 4-5=-1231/0,

5-6=-1231/0, 6-7=-96/146, 7-8=-96/146, 8-9=-96/146, 9-10=-792/0, 10-12=-792/0,

12-13=-330/0, 13-14=-330/0

BOT CHORD 22-24=0/847, 21-22=0/1488, 20-21=0/1231,

19-20=0/1231, 18-19=-146/96, 17-18=0/564, 16-17=0/701, 15-16=0/25

WEBS 5-21=0/89, 6-20=0/192, 8-18=-351/0,

2-24=-938/0, 2-22=0/557, 3-22=-113/0, 4-22=-161/3. 4-21=-363/0. 6-19=-1300/0. 7-19=0/294, 9-18=-633/0, 9-17=0/301, 10-17=-140/0, 12-17=0/102, 12-16=-415/0,

13-16=-118/0, 14-16=0/449

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 3,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

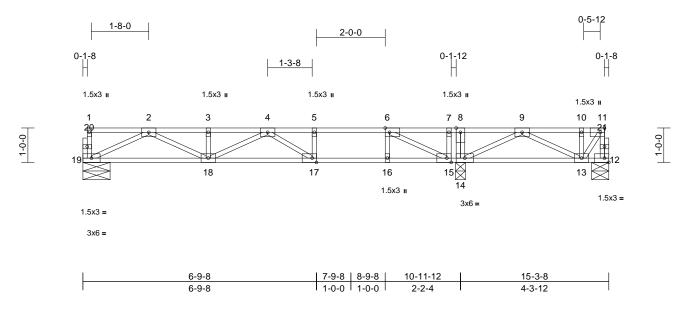
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F123	Floor	5	1	I72473805 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42 ID:GD4ZFc1mAjE0K_jNPRRpMBzUl90-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.5

Plate Offsets (X, Y): [6:0-1-8,Edge], [11:0-1-8,Edge], [15:0-1-8,Edge], [17:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.19	17-18	>677	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.26	17-18	>493	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS 12=0-6-0, 14=0-3-8, 19=0-9-8 (size) Max Grav 12=222 (LC 8), 14=641 (LC 1),

19=480 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-56/0, 11-12=-227/0, 1-2=-4/0, 2-3=-1362/0, 3-4=-1362/0, 4-5=-1271/0, 5-6=-1271/0, 6-7=-239/0, 7-8=-239/0, 8-9=-239/0, 9-10=-172/0, 10-11=-172/0

18-19=0/856, 17-18=0/1515, 16-17=0/1271, **BOT CHORD**

15-16=0/1271, 14-15=0/239, 13-14=0/349,

12-13=0/16

WEBS 5-17=0/71, 6-16=0/181, 8-14=-337/0, 2-19=-948/0, 2-18=0/567, 3-18=-114/0,

4-18=-172/0, 4-17=-311/0, 6-15=-1244/0, 7-15=0/277. 9-14=-218/49. 9-13=-199/0.

10-13=-120/0, 11-13=0/274

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2 3)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

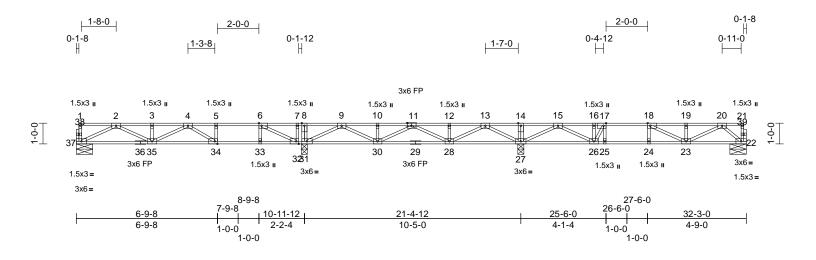




Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F119	Floor	5	1	Job Reference (optional)

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41 ID:o0XB1G07PQ59jr8Bsjwap_zUl91-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.4

Plate Offsets (X, Y): [6:0-1-8,Edge], [11:0-2-4,Edge], [17:0-1-8,Edge], [18:0-1-8,Edge], [32:0-1-8,Edge], [34:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.95	Vert(LL)	-0.19	34-35	>676	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.26	34-35	>494	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 158 lb	FT = 20%F, 11%E

LUMBER	
TOP CHORD	2x4 SP No 2(flat)

BOT CHORD

2x4 SP No.2(flat) *Except* 36-29:2x4 SP

No.1(flat)

WFBS 2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 31-32,27-28,26-27. REACTIONS (size) 22=0-9-8, 27=0-3-8, 31=0-3-8,

37=0-9-8

Max Grav 22=417 (LC 5), 27=1075 (LC 12),

31=935 (LC 3), 37=477 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-37=-56/0, 21-22=-28/0, 1-2=-4/0,

2-3=-1350/0, 3-4=-1350/0, 4-5=-1245/0, 5-6=-1245/0, 6-7=-114/318, 7-8=-114/318,

8-9=-114/318, 9-10=-856/0, 10-12=-856/50, 12-13=-752/50, 13-14=0/922, 14-15=0/922, 15-16=-863/33, 16-17=-863/33,

17-18=-1098/0, 18-19=-986/0, 19-20=-986/0,

20-21=-2/0

BOT CHORD 35-37=0/850, 34-35=0/1492, 33-34=0/1245,

32-33=0/1245, 31-32=-318/114, 30-31=0/526,

28-30=0/941, 27-28=-300/241, 26-27=-260/310, 25-26=0/1098

24-25=0/1098, 23-24=0/1098, 22-23=0/457

WEBS 5-34=0/87, 6-33=0/216, 8-31=-344/0,

14-27=-154/0, 17-25=0/217, 18-24=-86/0, 2-37=-942/0, 2-35=0/561, 3-35=-114/0, 4-35=-159/38, 4-34=-388/0, 6-32=-1357/0, 7-32=0/290, 9-31=-802/0, 9-30=0/466,

10-30=-140/0, 11-30=-108/95, 11-28=-312/0, 12-28=-139/0, 13-28=0/673, 13-27=-950/0, 15-27=-1029/0, 15-26=0/678, 16-26=-4/194

17-26=-666/0, 18-23=-136/92, 19-23=-189/0,

20-23=0/593. 20-22=-595/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 37 SP No.2 , Joint 31 3) SP No.1, Joint 27 SP No.2, Joint 22 SP No.2
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 3,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

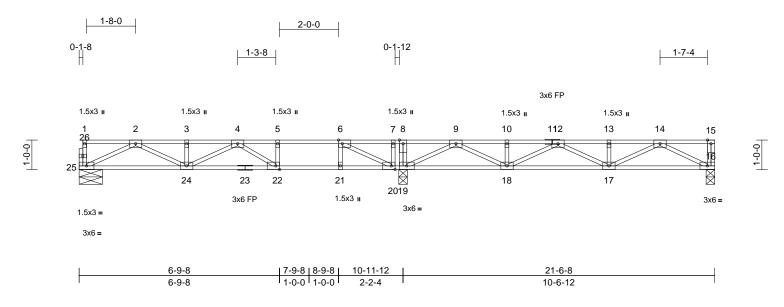
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F120	Floor	2	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42 ID:o0XB1G07PQ59jr8Bsjwap_zUl91-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39

Plate Offsets (X, Y):	[6:0-1-8,Edge], [20:0-	1-8,Edge], [22:0-	1-8,Edge]
-----------------------	------------------------	-------------------	-----------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.19	22-24	>693	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.26	22-24	>505	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 106 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.1(flat) *Except* 11-15:2x4 SP TOP CHORD

No.2(flat)

2x4 SP No.2(flat) *Except* 23-16:2x4 SP **BOT CHORD**

No.1(flat)

WEBS 2x4 SP No.3(flat) 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 19-20.

16=0-3-8, 19=0-3-8, 25=0-9-8 REACTIONS (size)

Max Grav 16=435 (LC 8), 19=1000 (LC 1),

25=468 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-25=-56/0, 15-16=-56/0, 1-2=-4/0,

2-3=-1316/0, 3-4=-1316/0, 4-5=-1171/0, 5-6=-1171/0, 6-7=-12/407, 7-8=-12/407, 8-9=-12/407, 9-10=-1057/0, 10-12=-1057/0, 12-13=-1141/0, 13-14=-1141/0, 14-15=0/0

24-25=0/832, 22-24=0/1446, 21-22=0/1171, 20-21=0/1171, 19-20=-407/12, 18-19=0/559,

17-18=0/1238, 16-17=0/725

WEBS 5-22=0/116, 6-21=0/208, 8-19=-365/0,

2-25=-922/0. 2-24=0/543. 3-24=-113/0. 4-24=-145/52, 4-22=-435/0, 6-20=-1387/0, 7-20=0/315, 9-19=-926/0, 9-18=0/588, 10-18=-141/0, 12-18=-233/0, 12-17=-108/0, 13-17=-132/0, 14-17=0/466, 14-16=-813/0

NOTES

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 25 SP No.2, Joint 19 SP No.1, Joint 16 SP No.1.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 3,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

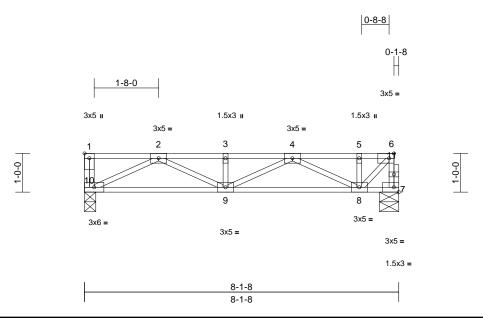
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F128	Floor	2	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42 ID:IPexSy2Ox1Mty8IZz8y2uPzUI9?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:29.8

Plate Offsets (X, Y): [1:Edge,0-1-8], [6:0-1-8,Edge]

					-	-	-	-				-
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	-0.02	8-9	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.03	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 43 lb	FT = 20%F, 11%

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 7=0-6-0, 10=0-3-8

Max Grav 7=341 (LC 1), 10=346 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-10=-58/0, 6-7=-343/0, 1-2=0/0, 2-3=-795/0,

3-4=-795/0, 4-5=-336/0, 5-6=-336/0 9-10=0/565, 8-9=0/707, 7-8=0/24

BOT CHORD WEBS 2-10=-629/0, 2-9=0/258, 3-9=-130/0,

4-9=0/99, 4-8=-416/0, 5-8=-117/0, 6-8=0/451

NOTES

- All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

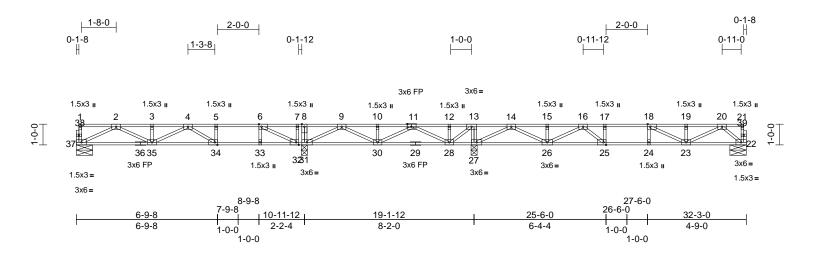




Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F121	Floor	2	1	Job Reference (optional)

Run: 8,73 S Feb 19 2025 Print: 8,730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42 $ID:GD4ZFc1mAjE0K_jNPRRpMBzUl90-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:55.4

Plate Offsets (X, Y): [6:0-1-8,Edge], [11:0-2-4,Edge], [18:0-1-8,Edge], [25:0-1-8,Edge], [32:0-1-8,Edge], [34:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.19	34-35	>668	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.27	34-35	>487	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 158 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 22=0-9-8, 27=0-3-8, 31=0-3-8,

37=0-9-8

22=480 (LC 5), 27=1197 (LC 12),

31=791 (LC 3), 37=486 (LC 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-37=-56/0, 21-22=-26/0, 1-2=-4/0,

2-3=-1385/0, 3-4=-1385/0, 4-5=-1323/0, 5-6=-1323/0, 6-7=-224/111, 7-8=-224/111,

8-9=-224/111, 9-10=-556/216,

10-12=-556/934, 12-13=0/934, 13-14=0/1397,

14-15=-771/0, 15-16=-771/0, 16-17=-1492/0,

17-18=-1492/0, 18-19=-1172/0, 19-20=-1172/0, 20-21=-2/0

BOT CHORD 35-37=0/868, 34-35=0/1551, 33-34=0/1323, 32-33=0/1323, 31-32=-111/224, 30-31=0/403,

28-30=-545/390, 27-28=-1397/0,

26-27=-309/0, 25-26=0/1284, 24-25=0/1492,

23-24=0/1492, 22-23=0/533

WEBS 5-34=0/82, 6-33=0/189, 8-31=-350/0,

13-27=-593/0, 17-25=-210/0, 18-24=-45/37, 2-37=-961/0, 2-35=0/580, 3-35=-115/0, 4-35=-186/0, 4-34=-336/0, 6-32=-1289/0, 7-32=0/284, 9-31=-519/241, 9-30=-250/190,

10-30=-140/0, 11-30=0/444, 11-28=-765/0, 12-28=-119/0, 13-28=0/768, 14-27=-1303/0,

14-26=0/970, 15-26=-148/0, 16-26=-604/0, 16-25=0/429, 18-23=-406/0, 19-23=-173/4,

20-23=0/716, 20-22=-694/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 3,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

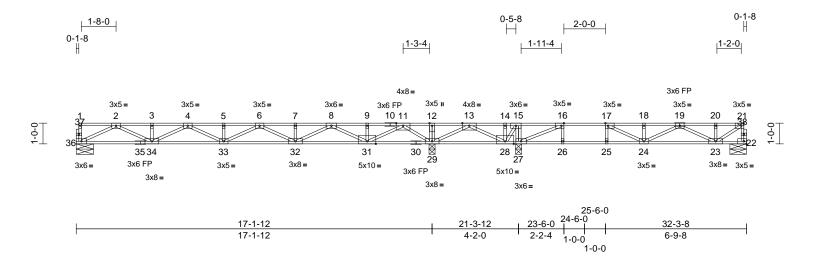
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F108	Floor	2	1	I72473810 Job Reference (optional)

Run: 8.73 S. Feb 19 2025 Print: 8.730 S. Feb 19 2025 MiTek Industries. Inc. Wed Apr 02 13:28:41 ID:zomhGLMcG134DTWwn_5cf6zREoI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.5

Plate Offsets (X, Y): [16:0-1-8,Edge], [17:0-1-8,Edge], [21:0-1-8	,Edge]
---	--------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.77	Vert(LL)	-0.24	32-33	>869	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.33	32-33	>627	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.05	22	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 161 lb	FT = 20%F, 11%E

-UMBEK			
	_		

TOP CHORD 2x4 SP No.2(flat) *Except* 10-19:2x4 SP

No.1(flat)

2x4 SP No.2(flat) *Except* 30-22:2x4 SP **BOT CHORD**

No.1(flat)

WEBS 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 22-38:2x4 SP **OTHERS**

No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 22=0-9-8, 27=0-3-8, 29=0-3-8,

36=0-10-0 Max Uplift 27=-353 (LC 3)

22=606 (LC 5), 27=574 (LC 4), Max Grav

29=2154 (LC 12), 36=752 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-36=-72/0, 21-22=-599/0, 1-2=-5/0, 2-3=-2294/0, 3-4=-2294/0, 4-5=-3001/0,

5-6=-3001/0, 6-7=-2220/0, 7-8=-2220/0, 8-9=0/84, 9-11=0/84, 11-12=0/3419, 12-13=0/3422, 13-14=-141/516,

14-15=-141/516, 15-16=-230/154, 16-17=-1627/0, 17-18=-1995/0, 18-20=-1995/0, 20-21=-855/0

BOT CHORD

34-36=0/1365, 33-34=0/2821, 32-33=0/2782, 31-32=0/1250, 29-31=-1798/0, 28-29=-1826/0. 27-28=-154/230

26-27=0/1627, 25-26=0/1627, 24-25=0/1627,

23-24=0/1571, 22-23=0/43

WEBS

12-29=-189/0, 15-27=-79/619, 16-26=0/220, 17-25=-190/0, 2-36=-1514/0, 2-34=0/1041, 3-34=-166/0, 4-34=-590/0, 4-33=0/202, 5-33=-170/0, 6-33=0/249, 6-32=-634/0, 7-32=-171/0, 8-32=0/1090, 8-31=-1472/0, 9-31=-176/0, 11-31=0/1921, 11-29=-1927/0, 13-29=-2065/0, 13-28=0/1676, 14-28=-210/0, 15-28=-791/71, 16-27=-1620/0, 17-24=0/440, 18-24=-281/0, 19-24=0/475, 19-23=-802/0, 20-23=-174/0. 21-23=0/981

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Bearings are assumed to be: Joint 36 SP No.2 , Joint 29 SP No.1, Joint 27 SP No.1, Joint 22 SP No.1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 353 lb uplift at joint 27
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

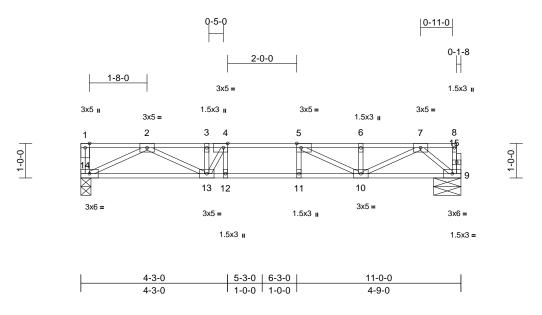
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F126	Floor	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42

Page: 1



Scale = 1:33.3

Plate Offsets	(X, Y):	[4:0-1-8,Edge],	[5:0-1-8,Edge]
---------------	---------	-----------------	----------------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL		Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.07	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 55 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING

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

bracing.

REACTIONS 9=0-9-8, 14=0-3-8 (size)

Max Grav 9=468 (LC 1), 14=473 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-58/0, 8-9=-26/0, 1-2=0/0, 2-3=-1286/0,

3-4=-1286/0, 4-5=-1417/0, 5-6=-1135/0,

6-7=-1135/0, 7-8=-2/0

BOT CHORD 13-14=0/824, 12-13=0/1417, 11-12=0/1417,

10-11=0/1417, 9-10=0/518

WEBS 4-12=-75/113, 5-11=-44/48, 2-14=-917/0, 2-13=0/518, 3-13=-98/126, 4-13=-440/5,

5-10=-433/0, 6-10=-166/4, 7-10=0/691,

7-9=-675/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



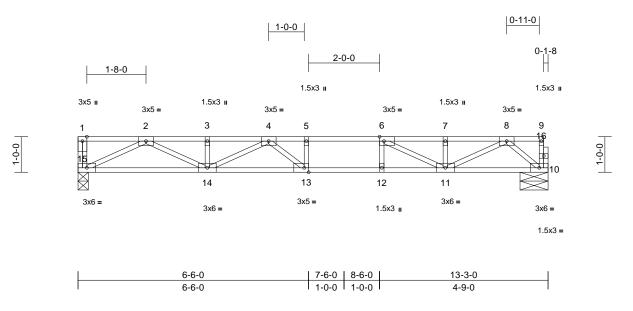
April 3,2025



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F127	Floor	1	1	I72473812 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42 ID:IPexSy2Ox1Mty8IZz8y2uPzUI9?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.5

BCLL

BCDL

Plate Offsets (X, Y): [6:0-1-8,Edge], [13:0-1-8,Edge]												
Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.17	13-14	>945	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.84	Vert(CT)	-0.22	13-14	>699	240		

0.42 | Horz(CT)

0.03

10

n/a

Weight: 65 lb

FT = 20%F, 11%E

WB

Matrix-SH

LUMBER	
TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)

2x4 SP No.3(flat) OTHERS BRACING

TOP CHORD Structural wood sheathing directly applied or

0.0

5.0

Rep Stress Incr

Code

YES

IRC2018/TPI2014

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 10=0-9-8, 15=0-3-8

Max Grav 10=567 (LC 1), 15=572 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-59/0, 9-10=-24/3, 1-2=0/0, 2-3=-1702/0, 3-4=-1702/0, 4-5=-2044/0,

5-6=-2044/0, 6-7=-1421/0, 7-8=-1421/0,

8-9=-2/0

BOT CHORD 14-15=0/1026, 13-14=0/2033, 12-13=0/2044,

11-12=0/2044, 10-11=0/637

WEBS 5-13=-141/29, 6-12=-6/109, 2-15=-1142/0, 2-14=0/757, 3-14=-130/0, 4-14=-372/0,

4-13=-143/272, 6-11=-784/0, 7-11=-147/53,

8-11=0/878, 8-10=-830/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All bearings are assumed to be SP No.2 .
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



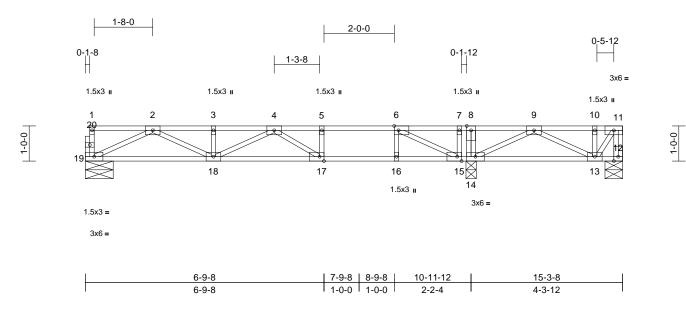
April 3,2025



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F124	Floor	1	1	I72473813 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:42

Page: 1



Scale = 1:32.8

Plate Offsets (X, Y):	[6:0-1-8,Edge], [15:0-1	1-8,Edge], [17:0-	1-8,Edge]
-----------------------	-------------------------	-------------------	-----------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.19	17-18	>677	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.97	Vert(CT)	-0.26	17-18	>493	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

REACTIONS (size) 12=0-6-0, 14=0-3-8, 19=0-9-8

Max Grav 12=227 (LC 8), 14=641 (LC 1),

19=480 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-56/0, 11-12=-231/0, 1-2=-4/0, 2-3=-1362/0, 3-4=-1362/0, 4-5=-1271/0,

5-6=-1271/0, 6-7=-238/0, 7-8=-238/0, 8-9=-238/0, 9-10=-172/0, 10-11=-172/0 18-19=0/856, 17-18=0/1515, 16-17=0/1271,

15-16=0/1271, 14-15=0/238, 13-14=0/349,

12-13=0/0

WEBS 5-17=0/71, 6-16=0/181, 8-14=-337/0,

2-19=-948/0, 2-18=0/567, 3-18=-114/0, 4-18=-172/0, 4-17=-311/0, 6-15=-1245/0, 7-15=0/277, 9-14=-218/49, 9-13=-199/0.

10-13=-120/0, 11-13=0/284

NOTES

BOT CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

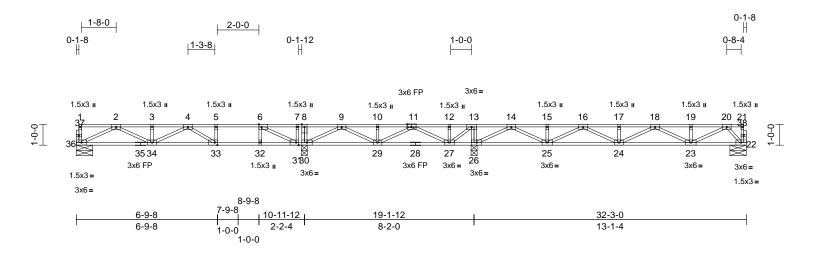




Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F122	Floor	1	1	Job Reference (optional)

Run: 8 73 S. Feb 19 2025 Print: 8 730 S. Feb 19 2025 MiTek Industries. Inc. Wed Apr 02 13:28:42 $ID: GD4ZFc1mAjE0K_jNPRRpMBzUl90-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:55.4

Plate Offsets (X, Y): [6:0-1-8,Edge], [11:0-2-4,Edge], [31:0-1-8,Edge], [33:0-1-8,Edge]

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.92	Vert(LL)	-0.19	33-34	>669	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.27	33-34	>488	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	22	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 160 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (size) 22=0-9-8, 26=0-3-8, 30=0-3-8,

36=0-9-8

Max Grav 22=478 (LC 5), 26=1212 (LC 12),

30=783 (LC 3), 36=486 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-36=-56/0, 21-22=-9/0, 1-2=-4/0,

2-3=-1387/0, 3-4=-1387/0, 4-5=-1326/0, 5-6=-1326/0, 6-7=-228/105, 7-8=-228/105,

8-9=-228/105, 9-10=-535/229,

10-12=-535/964, 12-13=0/964, 13-14=0/1475,

14-15=-745/0, 15-16=-745/0, 16-17=-1520/0,

17-18=-1520/0, 18-19=-1099/0,

19-20=-1099/0, 20-21=-1/0

BOT CHORD 34-36=0/868, 33-34=0/1553, 32-33=0/1326, 31-32=0/1326, 30-31=-105/228, 29-30=0/396,

27-29=-566/356, 26-27=-1475/0,

25-26=-290/0, 24-25=0/1270, 23-24=0/1446,

22-23=0/428

WEBS 5-33=0/81, 6-32=0/189, 8-30=-349/0,

> 13-26=-603/0. 2-36=-962/0. 2-34=0/581. 3-34=-115/0, 4-34=-187/0, 4-33=-334/0, 6-31=-1287/0, 7-31=0/284, 9-30=-504/251

9-29=-260/175, 10-29=-140/0, 11-29=0/465, 11-27=-785/0, 12-27=-119/0, 13-27=0/786, 14-26=-1320/0, 14-25=0/979, 15-25=-137/0,

16-25=-621/0, 16-24=0/314, 17-24=-137/0, 18-24=-6/83, 18-23=-389/0, 19-23=-139/0,

20-23=0/752, 20-22=-628/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- All bearings are assumed to be SP No.2
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



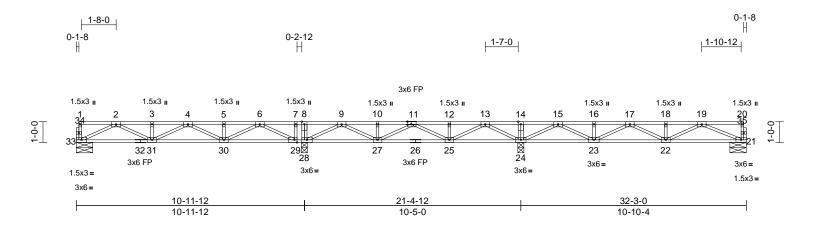
April 3,2025



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F118	Floor	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41 ID:o0XB1G07PQ59jr8Bsjwap_zUl91-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.4

Plate Offsets (X, Y):	[11:0-2-4,Edge], [29:0-1-8,Edge]
-----------------------	----------------------------------

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.Ó	Plate Grip DOL	1.00	тс	0.74	Vert(LL)	-0.06	29-30	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.08	29-30	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 161 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 21=0-9-8, 24=0-3-8, 28=0-3-8,

33=0-9-8

Max Grav 21=407 (LC 5), 24=1082 (LC 4),

28=1075 (LC 3), 33=419 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-33=-57/0, 20-21=-65/0, 1-2=-4/0,

2-3=-1101/0, 3-4=-1101/0, 4-5=-960/44, 5-6=-960/44, 6-7=0/974, 7-8=0/974, 8-9=0/974, 9-10=-572/344, 10-12=-572/358,

12-13=-553/358, 13-14=0/1150, 14-15=0/1151, 15-16=-807/100, 16-17=-807/100, 17-18=-1083/0,

18-19=-1083/0, 19-20=-5/0

BOT CHORD 31-33=0/719, 30-31=0/1173, 29-30=-276/424,

28-29=-974/0, 27-28=-466/124,

25-27=-329/699, 24-25=-511/89,

23-24=-353/215, 22-23=0/1085, 21-22=0/765 WEBS 8-28=-495/0, 14-24=-157/0, 2-33=-796/0,

2-31=0/428, 3-31=-131/0, 4-31=-81/76, 4-30=-325/0. 5-30=-119/0. 6-30=0/685 6-29=-1137/0, 7-29=0/319, 9-28=-800/0, 9-27=0/607, 10-27=-154/0, 11-27=-250/0 11-25=-277/0, 12-25=-140/0, 13-25=0/642, 13-24=-918/0, 15-24=-1077/0, 15-23=0/753,

16-23=-138/0, 17-23=-396/0, 17-22=-2/100, 18-22=-128/0, 19-22=0/356, 19-21=-829/0

NOTES

- Unbalanced floor live loads have been considered for
- All plates are 3x5 MT20 unless otherwise indicated.
- 3) All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



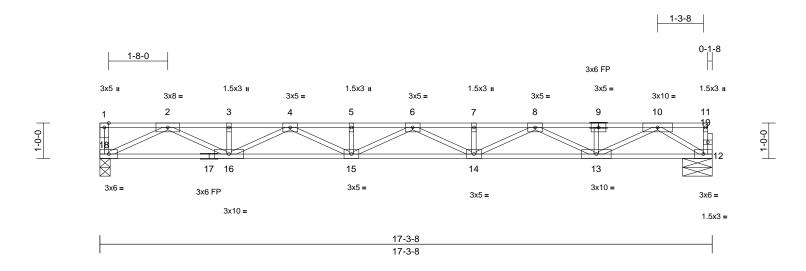
April 3,2025



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F117	Floor	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41

Page: 1



Scale = 1:32.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.51	Vert(LL)	-0.38	14-15	>537	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.53	14-15	>387	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 87 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 17-12:2x4 SP **BOT CHORD**

No.1(flat)

2x4 SP No.2(flat)

2x4 SP No.2(flat) **OTHERS**

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

5-4-8 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-10-0, 18=0-3-8

Max Grav 12=931 (LC 1), 18=937 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-18=-75/0, 11-12=-53/0, 1-2=0/0,

2-3=-3008/0, 3-4=-3008/0, 4-5=-4417/0, 5-6=-4417/0, 6-7=-4336/0, 7-8=-4336/0,

8-10=-2770/0, 10-11=-4/0

BOT CHORD 16-18=0/1732, 15-16=0/3890, 14-15=0/4554,

13-14=0/3729, 12-13=0/1401

WEBS 2-18=-1927/0, 2-16=0/1430, 3-16=-162/0,

4-16=-989/0, 4-15=0/590, 5-15=-165/0, 6-15=-154/0, 6-14=-244/0, 7-14=-164/0, 8-14=0/681, 8-13=-1087/0, 9-13=-167/0,

10-13=0/1535, 10-12=-1642/0

NOTES

- 1) Bearings are assumed to be: Joint 18 SP No.2, Joint 12 SP No.1
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 3,2025



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

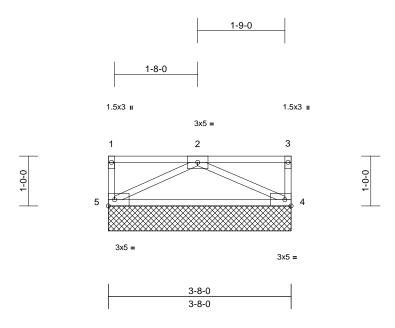
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F114	Floor	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41 $ID: zomhGLMcG134DTWwn_5cf6zREol-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:23.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=3-8-0, 5=3-8-0

Max Grav 4=195 (LC 1), 5=195 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-5=-65/0, 3-4=-70/0, 1-2=0/0, 2-3=0/0

BOT CHORD 4-5=0/221

WEBS 2-5=-248/0, 2-4=-246/0

NOTES

- 1) Gable requires continuous bottom chord bearing.
- All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 3,2025

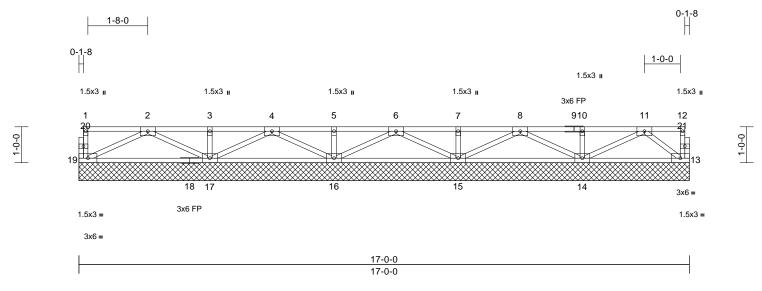


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F110	Floor	1	1	I72473818 Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41 ID:zomhGLMcG134DTWwn_5cf6zREoI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 85 lb	FT = 20%F, 11%E

LUMBER LOAD CASE(S) Standard

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

2x4 SP No.2(flat) *Except* 13-21:2x4 SP OTHERS

No.3(flat)

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

REACTIONS (size) 13=17-0-0, 14=17-0-0, 15=17-0-0, 16=17-0-0, 17=17-0-0, 19=17-0-0

Max Grav 13=121 (LC 1), 14=369 (LC 1),

15=387 (LC 1), 16=379 (LC 1),

17=418 (LC 1), 19=155 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-70/0, 12-13=-36/0, 1-2=-5/0, 2-3=0/88,

3-4=0/88, 4-5=0/83, 5-6=0/83, 6-7=0/81,

7-8=0/81, 8-10=0/52, 10-11=0/52, 11-12=-3/0

BOT CHORD 17-19=0/151, 16-17=0/81, 15-16=0/83,

14-15=0/98, 13-14=0/99

WEBS 2-19=-162/0, 2-17=-267/0, 3-17=-173/0,

4-17=-189/0, 4-16=-184/0, 5-16=-178/0, 6-16=-186/0, 6-15=-184/0, 7-15=-179/0,

8-15=-201/0, 8-14=-168/0, 10-14=-182/0,

11-14=-169/0, 11-13=-122/0

NOTES

- 1) All plates are 3x5 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 2)
- All bearings are assumed to be SP No.2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



April 3,2025

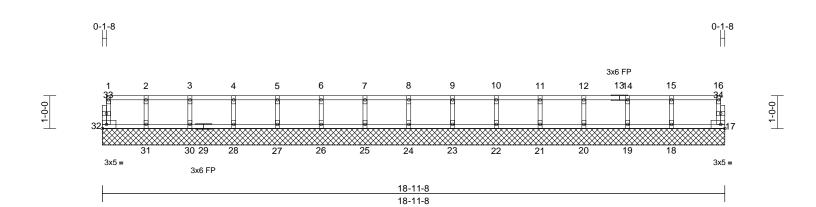
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F105	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:41 ID:VcCJ2?LzVkxDcJxkDHaN7uzREoJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:35.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	17	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 74 lb	FT = 20%F, 11%E

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

BRACING Structural wood sheathing directly applied or

TOP CHORD

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

17=18-11-8, 18=18-11-8, 19=18-11-8, 20=18-11-8, 21=18-11-8, 22=18-11-8, 23=18-11-8, 24=18-11-8, 25=18-11-8, 26=18-11-8, 27=18-11-8, 28=18-11-8, 30=18-11-8, 31=18-11-8, 32=18-11-8

Max Grav 17=72 (LC 1), 18=164 (LC 1), 19=142 (LC 1), 20=148 (LC 1),

21=146 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=147 (LC 1), 28=146 (LC 1),

30=149 (LC 1), 31=138 (LC 1), 32=60 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-32=-54/0, 16-17=-68/0, 1-2=-16/0, 2-3=-16/0, 3-4=-16/0, 4-5=-16/0, 5-6=-16/0,

6-7=-16/0, 7-8=-16/0, 8-9=-16/0, 9-10=-16/0, 10-11=-16/0, 11-12=-16/0, 12-14=-16/0,

14-15=-16/0, 15-16=-16/0 BOT CHORD

31-32=0/16, 30-31=0/16, 28-30=0/16, 27-28=0/16, 26-27=0/16, 25-26=0/16,

24-25=0/16, 23-24=0/16, 22-23=0/16, 21-22=0/16, 20-21=0/16, 19-20=0/16,

18-19=0/16, 17-18=0/16

WEBS 2-31=-128/0, 3-30=-135/0, 4-28=-133/0,

5-27=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0, 10-22=-133/0,

11-21=-133/0, 12-20=-134/0, 14-19=-129/0, 15-18=-147/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- All bearings are assumed to be SP No.2. 5)
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 3,2025

Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

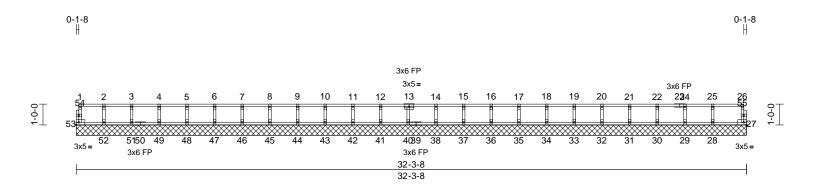
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Install 15 Magnolia Acres-Crawl-Franklin BA SP 3CG
25030167-02	F101	Floor Supported Gable	1	1	Job Reference (optional)

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Wed Apr 02 13:28:40 ID:1PexrfKLkQpM_9MYfZ28ahzREoK-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:55.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	27	n/a	n/a		
BCDL	5.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 125 lb	FT = 20%F, 11%E

				111211111111
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat) 2x4 SP No.2(flat) Structural wood s	heathing directly applied or	TOP CHORD	1-53=-51/0, 26-27=-68/0, 1-2=-11/0, 2-3=-11/0, 3-4=-11/0, 4-5=-11/0, 5-6=-11/0, 6-7=-11/0, 7-8=-11/0, 8-9=-11/0, 9-10=-11/0, 10-11=-11/0, 11-12=-11/0, 12-14=-18/0, 14-15=-18/0, 15-16=-18/0, 16-17=-18/0, 17-18=-18/0, 18-19=-18/0, 19-20=-18/0, 20-21=-18/0, 21-22=-18/0, 22-24=-18/0,
BOT CHORD		except end verticals. etly applied or 10-0-0 oc	BOT CHORD	24-25=-18/0, 25-26=-18/0 52-53=0/11, 51-52=0/11, 49-51=0/11, 48-49=0/11, 47-48=0/11, 46-47=0/11,
REACTIONS	(size) 27=32-33=32-33=32-34=32-46=32-49=32-53=2-443=31=14433=144434=1444444444444444444	3-8, 28=32-3-8, 29=32-3-8, 3-8, 31=32-3-8, 32=32-3-8, 34=32-3-8, 35=32-3-8, 3-8, 37=32-3-8, 38=32-3-8, 3-8, 41=32-3-8, 42=32-3-8, 3-8, 41=32-3-8, 45=32-3-8, 3-8, 47=32-3-8, 48=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3-8, 3-8, 51=32-3-8, 52=32-3	2) Gable requ 3) Truss to be braced aga 4) Gable stud	45-46=0/11, 44-45=0/11, 43-44=0/11, 42-43=0/11, 41-42=0/11, 40-41=0/11, 38-40=0/18, 37-38=0/18, 36-37=0/18, 35-36=0/18, 34-35=0/18, 33-34=0/18, 32-33=0/18, 31-32=0/18, 30-31=0/18, 29-30=0/18, 28-29=0/18, 27-28=0/18 2-52=-130/0, 3-51=-134/0, 4-49=-133/0, 5-48=-133/0, 6-47=-133/0, 7-46=-133/0, 8-45=-133/0, 19-44=-133/0, 10-43=-134/0, 11-42=-132/0, 15-37=-134/0, 13-40=-134/0, 17-35=-133/0, 18-34=-133/0, 20-32=-133/0, 21-31=-133/0, 22-30=-134/0, 24-29=-130/0, 25-28=-146/0 are 1.5x3 MT20 unless otherwise indicated. uires continuous bottom chord bearing. e fully sheathed from one face or securely ainst lateral movement (i.e. diagonal web).

53=56 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum Tension

51=148 (LC 1), 52=143 (LC 1),

All bearings are assumed to be SP No.2. 5)

This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 3,2025

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



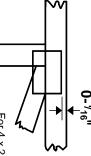
818 Soundside Road Edenton, NC 27932

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.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

₹

This symbol indicates the required direction of slots in connector plates.

*Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

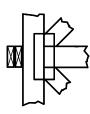
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

BEARING



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

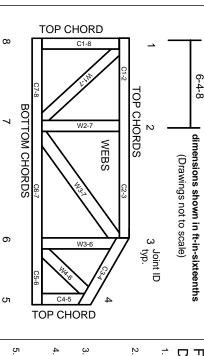
Industry Standards: ANSI/TPI1: National I

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.

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

DSB-22:

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.

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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.

© 2023 MiTek® All Rights Reserved

MITEK



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.