

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21120071-A

Tuscany Plan-2nd Floor

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: I49330625 thru I49330635

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



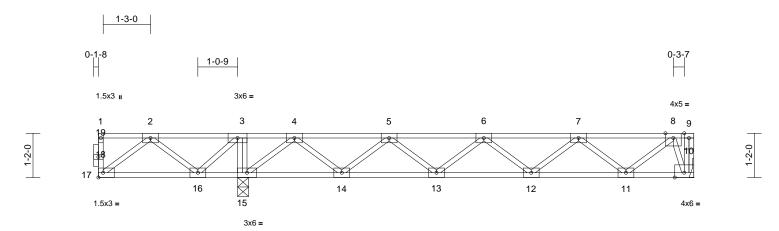
December 20,2021

Sevier, Scott

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	Tuscany Plan-2nd Floor
21120071-A	F201	Floor	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Dec 17 12:47:21 ID:GQU9znOT_reMutOSMvctH?y9G3h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).



Scale = 1:30.4

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	0.40	Vert(LL)	-0.07	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.09	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 83 lb	FT = 20%F, 11%E

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. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 10=583/ Mechanical, 15=1124/0-3-8

Max Grav 10=631 (LC 4), 15=1124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-17=-34/0, 9-10=0/82, 1-2=0/0, 2-3=0/373,

3-4=0/692, 4-5=-1083/228, 5-6=-1661/0,

6-7=-1577/0, 7-8=-832/0, 8-9=0/0 **BOT CHORD**

16-17=-57/0, 15-16=-692/0, 14-15=-444/609, 13-14=-43/1527, 12-13=0/1767,

11-12=0/1358, 10-11=0/280

WEBS 3-15=-476/0, 2-17=0/72, 2-16=-414/0,

3-16=0/427, 4-15=-1030/0, 4-14=0/693, 5-14=-656/0, 5-13=0/248, 6-13=-209/0,

6-12=-247/41, 7-12=-1/285, 7-11=-684/0, 8-11=0/719. 8-10=-759/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections. One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral
- This truss is designed in accordance with the 2015 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

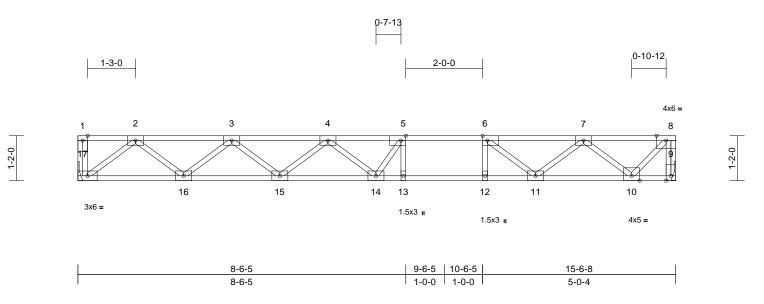


December 20,2021



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F202	Floor	6	1	Job Reference (optional)	0626

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries. Inc. Fri Dec 17 12:47:24 ID:GQU9znOT_reMutOSMvctH?y9G3h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:30

Plate Offsets (X, Y): [5	:0-1-8,Edge], [6:0-1-	8,Edge]
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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	0.72	Vert(LL)	-0.23	13-14	>808	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.83	Vert(CT)	-0.31	13-14	>588	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 79 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.2(flat) TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

9=841/ Mechanical, 17=841/ REACTIONS (lb/size) Mechanical

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-41/0, 8-9=-846/0, 1-2=0/0,

2-3=-1724/0, 3-4=-2716/0, 4-5=-3044/0, 5-6=-2879/0, 6-7=-2150/0, 7-8=-734/0

BOT CHORD 16-17=0/1040, 15-16=0/2371, 14-15=0/3043,

13-14=0/2879, 12-13=0/2879, 11-12=0/2879,

10-11=0/1585, 9-10=0/0

WEBS 5-13=-472/18, 6-12=0/351, 2-17=-1304/0, 2-16=0/890, 3-16=-843/0, 3-15=0/449,

4-15=-426/0, 4-14=-108/236, 5-14=-168/490, 6-11=-974/0, 7-11=0/736, 7-10=-1107/0,

8-10=0/1050

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections
- This truss is designed in accordance with the 2015 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

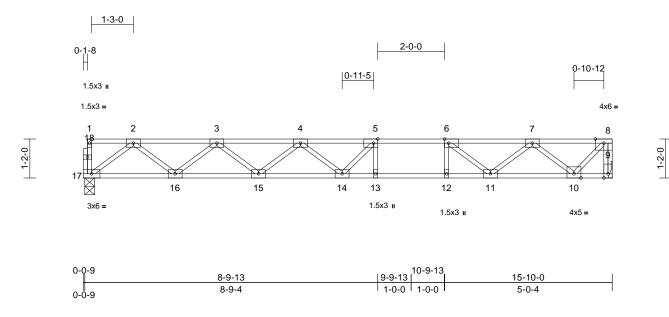


December 20,2021



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F203	Floor	3	1	Job Reference (optional)	149330627

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Scale = 1:34.5

Plate Offsets (X, Y):	[5:0-1-8,Edge], [6	6:0-1-8,Edge]
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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	0.79	Vert(LL)	-0.25	13-14	>734	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.85	Vert(CT)	-0.35	13-14	>535	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 79 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS **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.

REACTIONS (lb/size) 9=857/ Mechanical 17=851/0-3-8 **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-36/0. 8-9=-863/0. 1-2=-2/0. 2-3=-1763/0, 3-4=-2796/0, 4-5=-3161/0,

5-6=-2977/0, 6-7=-2204/0, 7-8=-750/0

BOT CHORD 16-17=0/1061, 15-16=0/2428, 14-15=0/3151,

13-14=0/2977, 12-13=0/2977, 11-12=0/2977,

10-11=0/1617, 9-10=0/0

WEBS 5-13=-407/8, 6-12=0/378, 2-17=-1328/0, 2-16=0/914, 3-16=-866/0, 3-15=0/479,

4-15=-462/0, 4-14=-90/231, 5-14=-177/450, 6-11=-1030/0, 7-11=0/764, 7-10=-1128/0,

8-10=0/1073

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 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

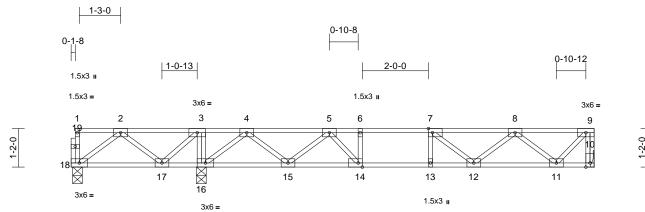


December 20,2021



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F204	Floor	1	1	Job Reference (optional)	19330628

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Dec 17 12:47:25 ID:GQU9znOT_reMutOSMvctH?y9G3h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



FASTEN TRUSS TO BEARING FOR THE UPLIFT REACTION SHOWN WHILE PERMITTING NO UPWARD MOVEMENT OF THE BEARING.



Scale = 1:34.9

Plate Offsets (X, Y): [7:0-1-8,Edge], [14:0-1-8,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	0.50	Vert(LL)	-0.09	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.12	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 82 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS **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 6-0-0 oc

bracing.

REACTIONS (lb/size) 10=578/ Mechanical,

16=1139/0-3-8, 18=-9/0-3-8

Max Uplift 18=-151 (LC 4)

10=580 (LC 4), 16=1139 (LC 1), Max Grav

18=138 (LC 3)

(lb) - Maximum Compression/Maximum FORCES

TOP CHORD

Tension

1-18=-33/0, 9-10=-574/0, 1-2=-2/0, 2-3=0/514, 3-4=0/900, 4-5=-631/0,

5-6=-1419/0, 6-7=-1419/0, 7-8=-1272/0,

8-9=-480/0

BOT CHORD 17-18=-223/126, 16-17=-900/0,

15-16=-155/202, 14-15=0/1148,

13-14=0/1419, 12-13=0/1419, 11-12=0/1053,

WEBS 3-16=-530/0, 6-14=-259/0, 7-13=-100/9, 2-18=-156/280, 2-17=-500/0, 3-17=0/513,

4-16=-1073/0, 4-15=0/671, 5-15=-682/0,

5-14=0/494, 7-12=-232/0, 8-12=0/286, 8-11=-746/0, 9-11=0/686

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.

- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18 and 16. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 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



December 20,2021

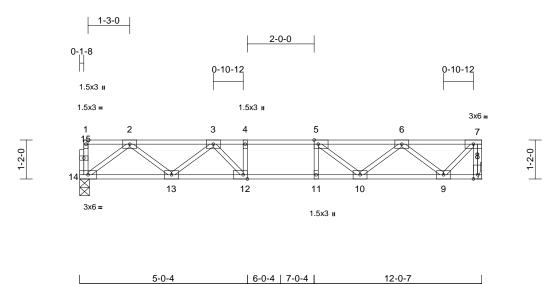


Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor
21120071-A	F205	Floor	3	1	Job Reference (optional)

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5-0-4

Page: 1



Scale = 1:34.5

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	0.43	Vert(LL)	-0.09	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.12	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 61 lb	FT = 20%F, 11%E

1-0-0 1-0-0

7) CAUTION, Do not erect truss backwards.

5-0-4

LOAD CASE(S) Standard

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

BRACING

LUMBER

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

bracing.

REACTIONS (lb/size) 8=648/ Mechanical 14=642/0-3-8 **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-14=-35/0, 7-8=-645/0, 1-2=-2/0, 2-3=-1233/0, 3-4=-1801/0, 4-5=-1801/0,

5-6=-1506/0, 6-7=-545/0

BOT CHORD 13-14=0/789, 12-13=0/1650, 11-12=0/1801,

10-11=0/1801, 9-10=0/1191, 8-9=0/0 4-12=-232/0, 5-11=-77/95, 2-14=-987/0,

2-13=0/578, 3-13=-543/0, 3-12=0/437,

5-10=-469/0, 6-10=0/417, 6-9=-840/0,

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- 4) One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 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.

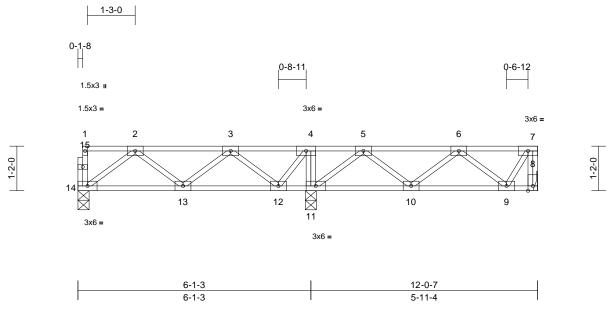


December 20,2021



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F206	Floor	1	1	Job Reference (optional)	149330630

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Scale = 1:30.2

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	0.28	Vert(LL)	-0.01	13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.12	Vert(CT)	-0.01	13-14	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 65 lb	FT = 20%F, 11%E

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

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 (lb/size) 8=250/ Mechanical, 11=787/0-3-8,

14=254/0-3-8

8=277 (LC 4), 11=787 (LC 1), Max Grav

14=278 (LC 3)

FORCES (lb) - Maximum Compression/Maximum Tension

1-14=-35/0, 7-8=-278/0, 1-2=-2/0, 2-3=-325/0, 3-4=0/143, 4-5=0/361,

5-6=-283/23, 6-7=-137/0

BOT CHORD 13-14=0/308, 12-13=-32/307, 11-12=-361/0,

10-11=-107/173, 9-10=0/362, 8-9=0/0

4-11=-445/0, 2-14=-383/0, 2-13=-23/23, 3-13=0/70, 3-12=-445/0, 4-12=0/379,

5-11=-523/0, 5-10=0/186, 6-10=-148/0,

6-9=-293/0, 7-9=0/248

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 11. This connection is for uplift only and does not consider
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

- 6) 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



December 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

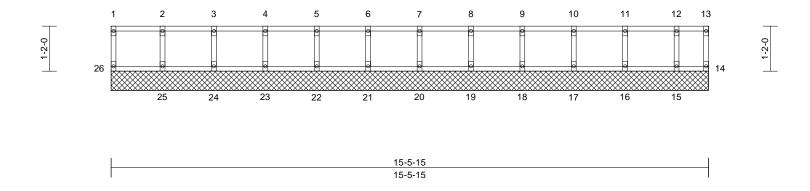
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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

ANS/TP11 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	Tuscany Plan-2nd Floor	
21120071-A	F207	Floor Supported Gable	1	1	Job Reference (optional)	49330631

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Fri Dec 17 12:47:26 ID:UrvNHK79VS_KSprNyafkYwy9FQj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29.9

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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 64 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 10-0-0 oc

bracing.

REACTIONS (lb/size)

14=34/15-5-15, 15=119/15-5-15, 16=152/15-5-15, 17=145/15-5-15, 18=147/15-5-15, 19=147/15-5-15, 20=147/15-5-15, 21=147/15-5-15, 22=147/15-5-15, 23=147/15-5-15, 24=145/15-5-15, 25=154/15-5-15,

26=60/15-5-15 **FORCES**

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-26=-55/0, 13-14=-28/0, 1-2=-6/0, 2-3=-6/0,

3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0,

11-12=-6/0. 12-13=-6/0

BOT CHORD 25-26=0/6, 24-25=0/6, 23-24=0/6, 22-23=0/6,

21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6

WEBS 2-25=-140/0, 3-24=-132/0, 4-23=-134/0,

5-22=-133/0, 6-21=-133/0, 7-20=-133/0, 8-19=-133/0, 9-18=-134/0, 10-17=-132/0,

11-16=-138/0, 12-15=-112/0

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.

6) This truss is designed in accordance with the 2015 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

N/A

5)



December 20,2021

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 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

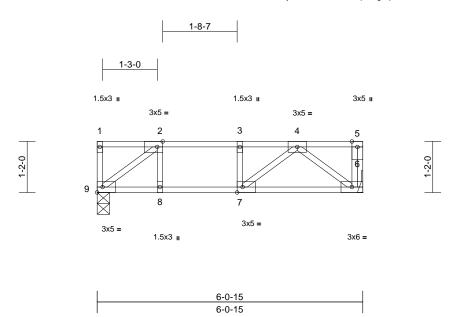
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor
21120071-A	F208	Floor	2	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries. Inc. Fri Dec 17 12:47:28 ID:GQU9znOT_reMutOSMvctH?y9G3h-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:26.4

Plate Offsets (X, Y)	: [2:0-1-8,Edge],	[7:0-1-8,Edge]
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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	0.37	Vert(LL)	-0.04	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.36	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 32 lb	FT = 20%F, 11%E

LUMBER

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

BRACING

NOTES

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 6=324/ Mechanical, 9=324/0-3-7 (lb/size)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-9=-41/32, 5-6=-51/0, 1-2=0/0, 2-3=-418/0,

3-4=-418/0, 4-5=0/0

BOT CHORD 8-9=0/418, 7-8=0/418, 6-7=0/334

WEBS 4-6=-418/0, 2-9=-524/0, 4-7=0/170, 2-8=0/82,

3-7=-89/0

1)

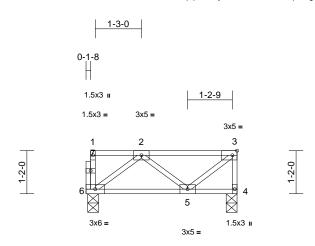
- Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 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.

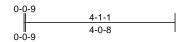
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor
21120071-A	F211	Floor	1	1	Job Reference (optional)

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries. Inc. Fri Dec 17 12:47:28 ID:CJZ0WNfl7zX4kaCqXpR2KCy9FQ1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:31.2

Plate Offsets	(X, Y):	[3:0-1-8	3,Edge]
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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	0.34	Vert(LL)	0.00	5-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.10	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%F, 11%E

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

Structural wood sheathing directly applied or TOP CHORD 4-1-1 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 4=214/0-3-8 6=208/0-3-8 **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-6=-21/0, 3-4=-212/0, 1-2=-1/0, 2-3=-133/0

BOT CHORD 5-6=0/233, 4-5=0/0

WEBS 2-6=-291/0, 2-5=-130/0, 3-5=0/172

NOTES

- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2015 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



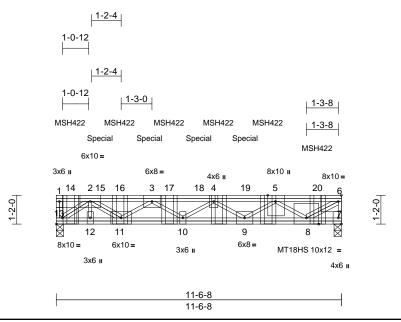
December 20,2021



Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F212	Floor Girder	1	1	Job Reference (optional)	149330634

Run: 8 52 F. Oct 22 2021 Print: 8 520 F. Oct 22 2021 MiTek Industries. Inc. Mon. Dec 20 09:40:59 ID:VfUf_ml8U7P54fEARo3i6gy9FPw-bVBuW7c?fO9asbZa6pnEGUjy71ZyS0oXEAOJ7Ty76Ro

Page: 1



Scale = 1:46.6

Plate Offsets (X, Y): [5:0-3-0,Edge], [6:0-1-8,Edge], [13:Edge,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
	. ,	-						(/				
TCLL	40.0	Plate Grip DOL	1.00	TC	0.64	Vert(LL)	-0.13	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.19	9-10	>727	240	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.04	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 97 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat)

2x4 SP No.3(flat) *Except* 13-1,13-2:2x4 SP

2400F 2.0E(flat)

BRACING

WEBS

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=0-3-9, 13=0-3-8

Max Grav 7=2869 (LC 1), 13=3092 (LC 1) (lb) - Max. Comp./Max. Ten. - All forces 250 **FORCES**

(lb) or less except when shown. TOP CHORD

1-13=-373/0, 6-7=-2850/0, 2-15=-5812/0,

15-16=-5812/0, 3-16=-5812/0, 3-17=-8445/0, 17-18=-8445/0, 4-18=-8445/0, 4-19=-7639/0,

5-19=-7639/0, 5-20=-3213/0, 6-20=-3213/0 12-13=0/3683, 11-12=0/3683, 10-11=0/8095,

BOT CHORD 9-10=0/8797, 8-9=0/6473

WEBS 3-11=-2786/0, 3-10=0/435, 4-10=-436/0, 4-9=-1436/0, 5-9=0/1446, 5-8=-3969/0,

6-8=0/3947, 2-11=0/2696, 2-13=-4554/0

NOTES

- 1) All plates are MT20 plates unless otherwise indicated.
- One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 7. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use MiTek MSH422 (With 10d nails into Girder & 6-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-0 from the left end to 10-7-0 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.

- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 58 lb down at 1-9-8, 58 lb down at 3-9-8, and 58 lb down at 5-9-8, and 58 lb down at 7-8-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 7-13=-10, 1-6=-100 Concentrated Loads (lb)

Vert: 3=-58 (F), 4=-741 (B), 5=-741 (B), 14=-768 (B),

15=-58 (F), 16=-741 (B), 17=-741 (B), 18=-58 (F),

19=-58 (F), 20=-746 (B)



December 20,2021

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 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/TPI 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	Tuscany Plan-2nd Floor	
21120071-A	F213	Floor Girder	1	3	Job Reference (optional)	149330635

Run: 8 52 F. Oct 22 2021 Print: 8 520 F. Oct 22 2021 MiTek Industries. Inc. Mon. Dec 20 10:00:23 ID:GQU9znOT_reMutOSMvctH?y9G3h-a3OAOSgt?QYiGAOvBsdjMXrXdRAhjYGZRytow5y769e Page: 1

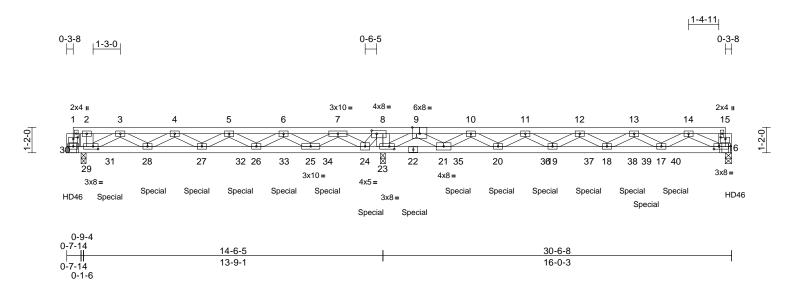


Plate Offsets (X, Y): [1:0-2-8,0-1-0], [8:0-2-12,0-1-12], [9:0-4-0, Edge], [15:0-2-8,0-1-0], [16:0-2-12,0-1-8], [23:0-2-12,0-1-8], [29:0-2-12,0-1-8]

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	0.66	Vert(LL)	-0.14	18-19	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.19	18-19	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.03	16	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 430 lb	FT = 11%

LUMBER TOP CHORD 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E **BOT CHORD** 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3 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.

16=0-3-8, 23=0-2-12, 29=0-2-12 REACTIONS (size) Max Grav 16=2460 (LC 1), 23=9018 (LC 1),

29=3399 (LC 6)

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

TOP CHORD 3-4=-6006/0, 4-5=-7770/179, 5-6=-6125/573, 6-7=-695/1178, 7-8=0/9573, 8-9=0/13015, 9-10=-242/2585, 10-11=-4418/279,

11-12=-7955/0, 12-13=-8803/0, 13-14=-6276/0

BOT CHORD

29-31=0/3438, 28-31=0/3438, 27-28=-50/7068, 27-32=-343/7101, 26-32=-343/7101, 26-33=-835/3592,

25-33=-835/3592, 25-34=-4967/0, 24-34=-4967/0, 23-24=-13015/0, 22-23=-7124/0, 21-22=-7124/0, 21-35=-549/1303, 20-35=-549/1303,

20-36=-50/6347, 19-36=-50/6347,

19-37=0/8539, 18-37=0/8539, 18-38=0/7726, 38-39=0/7726, 17-39=0/7726, 17-40=0/3768, 16-40=0/3768

WEBS

2-29=-271/0, 8-23=-4414/0, 3-29=-3833/0, 3-28=-28/3135, 4-28=-1297/69, 4-27=-158/856, 5-27=-57/973, 5-26=-1346/0, 6-26=0/3246, 6-25=-3699/0, 7-25=0/5599, 7-24=-5622/0, 8-24=0/5041, 9-23=-6773/0, 9-21=0/6001, 10-21=-4287/0, 10-20=0/3802, 11-20=-2354/0, 11-19=0/1964, 12-19=-713/0, 12-18=-202/508, 13-18=-32/1314, 13-17=-1770/0, 14-17=0/3062, 14-16=-3983/0

NOTES

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

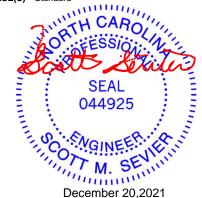
Bottom chords connected as follows: 2x4 - 2 rows staggered at 0-7-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- The Fabrication Tolerance at joint 22 = 11%
- 6) N/A

- 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.
- 10) CAUTION, Do not erect truss backwards
- 11) Use MiTek HD46 (With 8-16d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 29-11-8 oc max. starting at 0-3-8 from the left end to 30-3-0 to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 831 lb down at 2-0-0, 831 lb down at 4-0-0, 831 lb down at 6-0-0, 831 lb down at 8-0-0, 831 lb down at 10-0-0, 831 lb down at 12-0-0, 847 lb down at 14-0-0, 847 lb down at 16-0-0, 847 lb down at 18-0-0, 570 lb down at 20-0-0, 638 lb down at 22-0-0, 638 lb down at 24-0-0, 638 lb down at 26-0-0, and 267 lb down at 26-7-12, and 314 lb down at 28-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Provide mechanical connection (by others) of truss to bearing plate at joint(s) 29, 23.

One RT7A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 29, 23, and 16. This connection is for uplift only and does not consider lateral forces.

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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Job	Truss	Truss Type	Qty	Ply	Tuscany Plan-2nd Floor	
21120071-A	F213	Floor Girder	1	3	Job Reference (optional)	35

(F), 40=-314 (F)

Run: 8.52 E Oct 22 2021 Print: 8.520 E Oct 22 2021 MiTek Industries, Inc. Mon Dec 20 10:00:23 $ID: GQU9znOT_reMutOSMvctH?y9G3h-a3OAOSgt?QYiGAOvBsdjMXrXdRAhjYGZRytow5y769e$ Page: 2

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 16-30=-10, 1-15=-100 Concentrated Loads (lb) Orice in a lead Load's (ii) Vert: 30=-626 (F), 22=-847 (F), 28=-831 (F), 27=-831 (F), 24=-847 (F), 20=-570 (F), 16=-318 (F), 31=-831 (F), 32=-831 (F), 33=-831 (F), 34=-831 (F), 35=-847 (F), 36=-638 (F), 37=-638 (F), 38=-638 (F), 39=-267 (F), 40=-244 (F)

818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- 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.

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- 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

φ.

- 9 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 camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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
- 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.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.