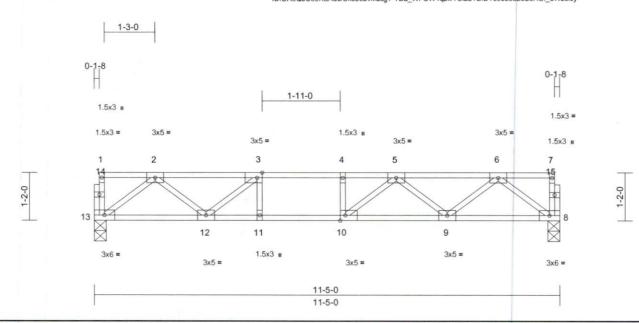
Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	
20010097-B	F1	Floor	5	1	Job Reference (optional)	E14157660

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:33:39 ID:CR3QJC50XttRuDUkce6bvMzcjj?-YBa_WFCW4qzwYSl2bTefDTc0os86LcScRCf_uWzcicy

Page: 1



Scale = 1:27.2

Plate Offsets (X, Y):	[3:0-1-8,Edge],	[10:0-1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.11	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.77	Vert(CT)	-0.14	9-10	>943	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH		THE STATE OF THE S				3/10/255	Weight: 57 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. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD Rigid cei bracing.

REACTIONS (size) 8=0-3-8, 13=0-3-8

Max Grav 8=608 (LC 1), 13=608 (LC 1)

FORCES (lb) - N

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 13-14=-40/0, 1-14=-40/0, 8-15=-36/0, 7-15=-36/0, 1-2=-2/0, 2-3=-1154/0,

3-4=-1597/0, 4-5=-1597/0, 5-6=-1157/0,

6-7=-2/0

BOT CHORD 12-13=0/733, 11-12=0/1597, 10-11=0/1597,

9-10=0/1518, 8-9=0/746

WEBS 6-8=-933/0, 2-13=-917/0, 6-9=0/536,

2-12=0/547, 5-9=-470/0, 3-12=-584/0, 5-10=-61/327, 3-11=-33/134, 4-10=-148/0

NOTES

- Unbalanced floor live loads have been considered for this design.
- 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



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

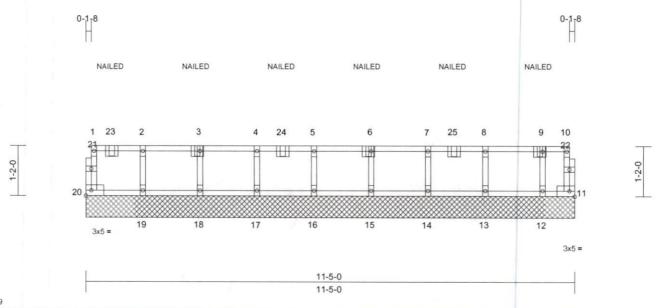


Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	
20010097-B	F1GE	Floor Supported Gable	1	1	Job Reference (optional)	E14157661

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.33 S. Feb 13 2020 Print: 8.330 S. Feb 13 2020 MiTek Industries. Inc. Mon.Mar.09.09:33:43 ID:FJT4TLGQ?UmJBX8c_Ht60Wzcjim-NLxFnIHHfgj4GNCCykL3Sks8_GMjIOGVp76I6Azcics

Page: 1



Scale = 1:25.9

Loading	(psf)	Spacing	2-0-0	CSI		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	0.05	Vert(TL)	n/a		n/a	999	100000000000000000000000000000000000000	V.T. (1. 1. 1. 1. T. T.)
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R		,			377.75		Weight: 49 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 **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

REACTIONS (size)

11=11-5-0, 12=11-5-0, 13=11-5-0, 14=11-5-0, 15=11-5-0, 16=11-5-0, 17=11-5-0, 18=11-5-0, 19=11-5-0,

20=11-5-0

Max Grav 11=49 (LC 1), 12=171 (LC 1), 13=208 (LC 1), 14=211 (LC 1), 15=220 (LC 1), 16=201 (LC 1), 17=212 (LC 1), 18=221 (LC 1),

19=196 (LC 1), 20=117 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 20-21=-116/0, 1-21=-115/0, 11-22=-33/0, 10-22=-32/0, 1-23=-17/0, 2-23=-17/0,

2-3=-17/0, 3-4=-17/0, 4-24=-17/0, 5-24=-17/0, 5-6=-17/0, 6-7=-17/0, 7-25=-17/0, 8-25=-17/0, 8-9=-17/0,

9-10=-17/0

BOT CHORD 19-20=0/17, 18-19=0/17, 17-18=0/17,

16-17=0/17, 15-16=0/17, 14-15=0/17, 13-14=0/17, 12-13=0/17, 11-12=0/17

WEBS 2-19=-178/0, 3-18=-209/0, 4-17=-198/0,

5-16=-188/0, 6-15=-206/0, 7-14=-198/0, 8-13=-193/0, 9-12=-176/0

NOTES

- 1) 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).
- 4) Gable studs spaced at 1-4-0 oc

- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) 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

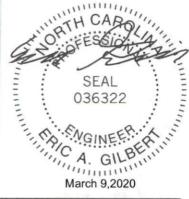
- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 - Uniform Loads (lb/ft)

Vert: 11-20=-10, 1-10=-100

Concentrated Loads (lb)

Vert: 3=-97 (F), 6=-97 (F), 9=-100 (F), 23=-102 (F),

24=-97 (F), 25=-97 (F)



Marning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTTek® 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 property incorporate this design into the overall building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Brancing individual to prevent buckling of individual truss web and/for 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/THI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

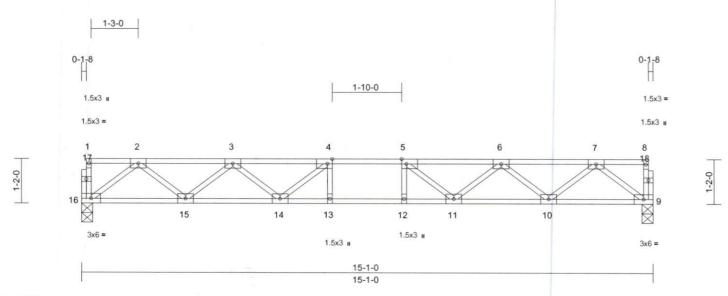


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	
20010097-B	F2	Floor	2	1	Job Reference (optional)	E14157662

Carter Components (Sanford), Sanford, NC - 27332.

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:33:45 ID:CR3QJC50XttRuDUkce6bvMzcjj?-Jj30B_IXBHzoWgMb39NXX9yP24tFDC8oHRbPA3zcicq



Scale = 1:29.2

Plate Offsets (X, Y):	[4:0-1-8,Edge]	[5:0-1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.16	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.21	12-13	>828	240	100	
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 75 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.1(flat) 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 10-0-0 oc

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

Max Grav 9=810 (LC 1), 16=810 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 16-17=-41/0, 1-17=-41/0, 9-18=-41/0, 8-18=-41/0, 1-2=-2/0, 2-3=-1662/0,

3-4=-2586/0, 4-5=-2880/0, 5-6=-2586/0,

6-7=-1662/0, 7-8=-2/0

BOT CHORD

15-16=0/1004, 14-15=0/2285, 13-14=0/2880,

12-13=0/2880, 11-12=0/2880, 10-11=0/2285,

9-10=0/1004

7-9=-1256/0, 2-16=-1256/0, 7-10=0/857,

2-15=0/857, 6-10=-812/0, 3-15=-812/0, 6-11=0/448, 3-14=0/448, 5-11=-555/0,

4-14=-555/0, 4-13=-133/164, 5-12=-133/164

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated.
- 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.
- 4) 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



Page: 1

March 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® 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 memors only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord memors only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss web and/or chord memors 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/TH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	E4.4457000
20010097-B	F2A	Floor	2	1	Job Reference (optional)	E14157663

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:33:46 ID:CR3QJC50XttRuDUkce6bvMzcii?-nwdOPJJ9vb6f7qxndsum4NUa5UG8vh6xV5LviVzcicp

Page: 1

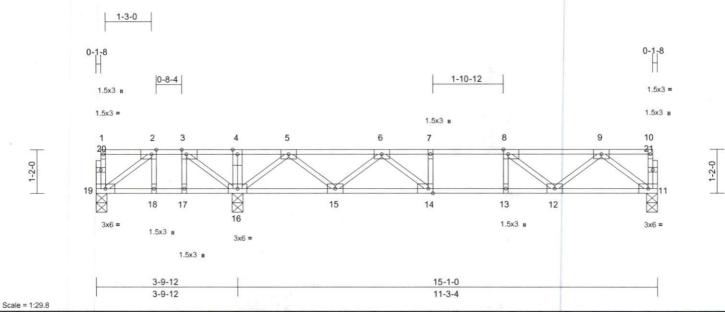


Plate Offsets (X, Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [8:0-1-8,Edge], [14:0-1-8,Edge]

	, [,9-]	f12-11 f	-13-1/1	-9-1								
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.50	Vert(LL)	-0.06	14-15	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.08	14-15	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	11	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 78 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 6-0-0 oc

bracing.

REACTIONS (size) 11=0-3-8, 16=0-3-8, 19=0-3-8

Max Uplift 19=-128 (LC 4)

11=549 (LC 7), 16=1063 (LC 1), Max Grav

19=141 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 19-20=-91/0, 1-20=-91/0, 11-21=-33/0,

10-21=-33/0, 1-2=-5/0, 2-3=-85/271, 3-4=0/765, 4-5=0/765, 5-6=-676/0,

6-7=-1319/0, 7-8=-1319/0, 8-9=-1002/0,

9-10=-2/0

BOT CHORD

18-19=-271/85, 17-18=-271/85, 16-17=-271/85, 15-16=-2/205, 14-15=0/1116, 13-14=0/1319, 12-13=0/1319, 11-12=0/667

4-16=-89/0, 3-16=-697/0, 2-19=-100/338, 2-18=-125/0, 3-17=0/150, 5-16=-1034/0,

9-11=-834/0, 5-15=0/623, 9-12=0/437,

6-15=-586/0, 8-12=-404/0, 6-14=0/379,

7-14=-166/0, 8-13=-53/63

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x5 MT20 unless otherwise indicated
- One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19. This connection is for uplift only and does not consider lateral forces.

- 4) 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

SEAL 036322 A. GILBE A. GIL

March 9,2020

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rov. 10/03/2015 BEFORE USE. Design valid for use only with MTeke 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Selects before the second control of the control of the second con fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Qui
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

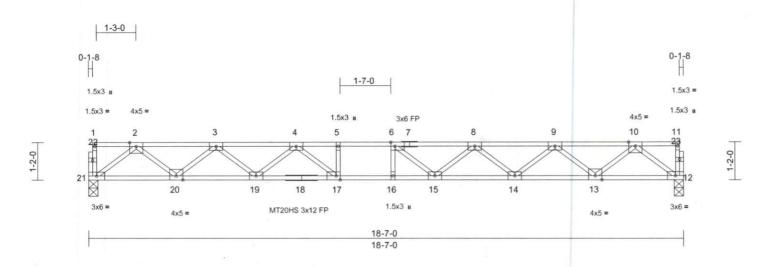


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	E14157664
20010097-B	F3	Floor	2	1	Job Reference (optional)	E14157664

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:33:46 ID:CR3QJC50XttRuDUkce6bvMzcjj?-nwdOPJJ9yb6f7qxndsum4NUUEUDNyd7xV5LyiVzcicp



Scale = 1:34.6

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

	N Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.87	Vert(LL)	-0.35	15-16	>629	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.48	15-16	>459	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH		Villa					Weight: 93 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat)

BOT CHORD 2x4 SP No.1(flat) *Except* 18-12:2x4 SP

2400F 2.0E(flat) 2x4 SP No.3(flat)

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

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 12=0-3-8, 21=0-3-8

Max Grav 12=1002 (LC 1), 21=1002 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

21-22=-39/0, 1-22=-39/0, 12-23=-37/0, 11-23=-37/0, 1-2=-2/0, 2-3=-2146/0,

3-4=-3522/0, 4-5=-4381/0, 5-6=-4381/0, 6-7=-4260/0, 7-8=-4260/0, 8-9=-3538/0,

9-10=-2141/0, 10-11=-2/0

BOT CHORD 20-21=0/1257, 19-20=0/2995, 18-19=0/4046,

17-18=0/4046, 16-17=0/4381, 15-16=0/4381, 14-15=0/4064, 13-14=0/2990, 12-13=0/1259

10-12=-1576/0, 2-21=-1574/0, 10-13=0/1149,

2-20=0/1157, 9-13=-1104/0, 3-20=-1106/0, 9-14=0/714, 3-19=0/685, 8-14=-684/0,

4-19=-682/0, 8-15=0/411, 4-17=-16/706, 6-15=-486/189, 5-17=-244/0, 6-16=-225/126

NOTES

WEBS

- Unbalanced floor live loads have been considered for 1)
- All plates are MT20 plates unless otherwise indicated. All plates are 3x5 MT20 unless otherwise indicated.
- 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.

5) 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

SEAL A. GILB 1117. GIA March 9,2020

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MTek® 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, DSB-89 and BCSI Building Component fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Que Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

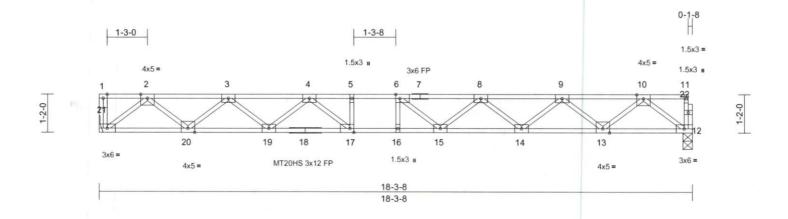


Job	Truss	Truss Type	Qty	Ply	5 PBC-Floor	
20010097-B	F3A	Floor	3	1	Job Reference (optional)	E14157665

Carter Components (Sanford), Sanford, NC - 27332.

Run: 8.33 S Feb 13 2020 Print: 8.330 S Feb 13 2020 MiTek Industries, Inc. Mon Mar 09 09:33:47 ID:CR3QJC50XttRuDUkce6bvMzcjj?-F6BmcfKnjuEWI_WzBaQ?ca1fGuVlh4a5kl4WFxzcico

Page: 1



Scale = 1:34.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.35	15-16	>620	360	MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.48	15-16	>452	240	MT20	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.08	12	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH						1,000	Weight: 92 lb	FT = 20%F, 11%E

LUMBER

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

1-4-12 oc bracing: 16-17

2-2-0 oc bracing: 15-16.

REACTIONS (size) 12=0-3-8, 21= Mechanical

Max Grav 12=986 (LC 1), 21=992 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD

Tension 1-21=-43/0, 12-22=-37/0, 11-22=-37/0,

1-2=0/0, 2-3=-2106/0, 3-4=-3444/0, 4-5=-4251/0, 5-6=-4251/0, 6-7=-4143/0, 7-8=-4143/0, 8-9=-3460/0, 9-10=-2102/0,

10-11=-2/0

BOT CHORD 20-21=0/1237, 19-20=0/2936, 18-19=0/3946,

17-18=0/3946, 16-17=0/4251, 15-16=0/4251, 14-15=0/3967, 13-14=0/2931, 12-13=0/1238

WEBS 10-12=-1550/0, 2-21=-1552/0, 10-13=0/1125,

2-20=0/1131, 9-13=-1079/0, 3-20=-1081/0, 9-14=0/689, 3-19=0/661, 8-14=-659/0,

4-19=-653/0, 8-15=0/389, 4-17=-44/658, 6-15=-439/182, 5-17=-230/0, 6-16=-200/106

NOTES

- Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 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.

- 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.
- 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. 10/03/2015 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



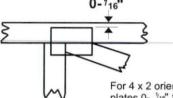
818 Soundside Road Edenton, NC 27932

Symbols

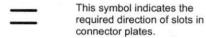
PLATE LOCATION AND ORIENTATION



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.



* Plate location details available in MiTek 20/20 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 where bearings occur. Min size shown is for crushing only.

Industry Standards:

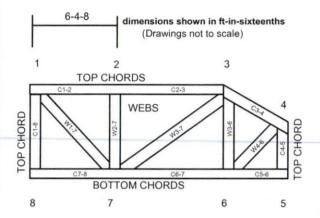
ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

BCSI:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



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