

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Master120 Roof B

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Builders FirstSource-Apex,NC.

Pages or sheets covered by this seal: I63424634 thru I63424652

My license renewal date for the state of North Carolina is December 31, 2024.

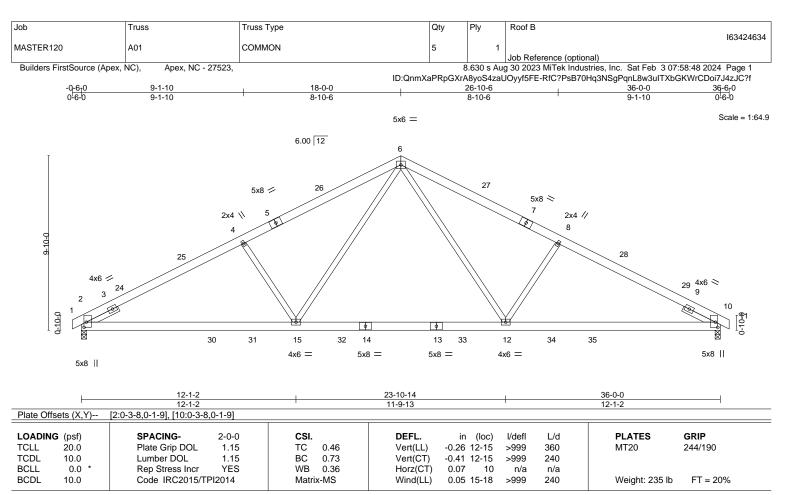
North Carolina COA: C-0844



February 5,2024

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.



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-113(LC 13)

Max Uplift 2=-4(LC 12), 10=-4(LC 13) Max Grav 2=1467(LC 1), 10=1467(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-2389/189, 4-6=-2188/220, 6-8=-2188/220, 8-10=-2389/189 TOP CHORD

BOT CHORD

2-15=-71/2066, 12-15=0/1414, 10-12=-73/2066

WEBS 6-12=-15/869, 8-12=-496/184, 6-15=-15/869, 4-15=-496/184

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 18-0-0, Exterior(2) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 36-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 2 and 4 lb uplift at joint 10.



Structural wood sheathing directly applied or 4-4-7 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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)



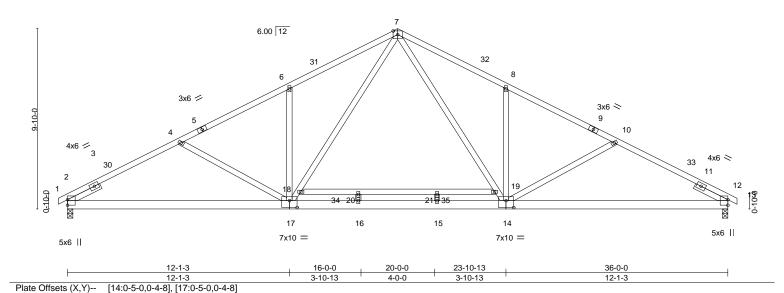
Job Truss Truss Type Qty Roof B 163424635 MASTER120 A01A COMMON Job Reference (optional) 8.630 s Mar 9 2023 MTek Industries, Inc. Mon Feb 5 13:26:31 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-u1gdUFREMkRrei2EBHcKD0Y73GE3f5T0rXbxOXzoAcM

Builders FirstSource, Apex, NC 27523

-0-6-0 0-6-0 6-2-5 12-1-3 18-0-0 23-10-13 29-9-11 36-0-0 36-6-0 6-2-5 5-10-13 5-10-13 5-10-13 5-10-13 6-2-5 0-6-0

5x6 =

Scale = 1:62.8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) L/d **PLATES** GRIP I/defl Plate Grip DOL TCLL 20.0 1 15 TC 0.84 Vert(LL) -0.34 15-16 >999 360 MT20 244/190 TCDL BC -0.53 15-16 10.0 Lumber DOL 0.86 Vert(CT) >817 240 1.15 **BCLL** 0.0 Rep Stress Incr NO WB 0.83 Horz(CT) 0.07 12 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-MS Wind(LL) 0.08 15-16 >999 240 Weight: 239 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3 **WEBS**

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x4 SP No.3 1-11-12

REACTIONS. 2=1470/0-3-8 (min. 0-1-12), 12=1470/0-3-8 (min. 0-1-12) (lb/size)

Max Horz 2=-113(LC 13)

Max Uplift 2=-2(LC 12), 12=-2(LC 13)

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

TOP CHORD 2-3=-1036/0, 3-30=-2411/175, 4-30=-2385/200, 4-5=-2125/142, 5-6=-2053/167,

6-31=-2141/231, 7-31=-2053/259, 7-32=-2053/259, 8-32=-2141/231, 8-9=-2053/167,

9-10=-2125/142, 10-33=-2385/200, 11-33=-2411/175, 11-12=-1038/0 2-17=-93/2094, 16-17=0/1342, 15-16=0/1342, 14-15=0/1342, 12-14=-94/2094

BOT CHORD WEBS 7-19=-80/918, 14-19=-82/919, 8-14=-401/164, 10-14=-316/139, 17-18=-82/920,

7-18=-80/930, 6-17=-401/164, 4-17=-316/138

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 18-0-0, Exterior(2) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 36-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 2 and 2 lb uplift at joint 12
- 7) 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.
- 8) N/A
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60, 7-13=-60, 22-26=-20



Structural wood sheathing directly applied or 2-7-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 5,2024

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Job	Truss	Truss Type	Qty	Ply	Roof B	
MASTER120	A01A	COMMON	4	1		163424635
					Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8 630 s Mar 9 2023 MiTek Industries Inc. Mon Feb 5 13:26:31 2024 Page 2 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-u1gdUFREMkRrei2EBHcKD0Y73GE3f5T0rXbxOXzoAcM

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-13=-50, 22-26=-20, 34-35=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-7=-20, 7-13=-20, 22-26=-40, 34-35=-40(F)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=47, 2-30=25, 7-30=14, 7-32=25, 12-32=14, 12-13=9, 22-26=-12

Horz: 1-2=-59, 2-30=-37, 7-30=-26, 7-32=37, 12-32=26, 12-13=21

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-31=14, 7-31=25, 7-33=14, 12-33=25, 12-13=47, 22-26=-12

Horz: 1-2=-21, 2-31=-26, 7-31=-37, 7-33=26, 12-33=37, 12-13=59

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-12, 2-7=-33, 7-12=-33, 12-13=-28, 22-26=-20

Horz: 1-2=-8. 2-7=13. 7-12=-13. 12-13=-8

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-7=-33, 7-12=-33, 12-13=-12, 22-26=-20

Horz: 1-2=8, 2-7=13, 7-12=-13, 12-13=8

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-7=-2, 7-12=9, 12-13=4, 22-26=-12

Horz: 1-2=-21, 2-7=-10, 7-12=21, 12-13=16

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-7=9, 7-12=-2, 12-13=9, 22-26=-12

Horz: 1-2=-16, 2-7=-21, 7-12=10, 12-13=21

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-15, 2-7=-20, 7-12=-9, 12-13=-4, 22-26=-20

Horz: 1-2=-5, 2-7=-0, 7-12=11, 12-13=16

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-4, 2-7=-9, 7-12=-20, 12-13=-15, 22-26=-20

Horz: 1-2=-16, 2-7=-11, 7-12=0, 12-13=5

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=17, 2-4=22, 4-7=11, 7-12=3, 12-13=-2, 22-26=-12 Horz: 1-2=-29, 2-4=-34, 4-7=-23, 7-12=15, 12-13=10

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-2, 2-7=3, 7-10=11, 10-12=22, 12-13=17, 22-26=-12

Horz: 1-2=-10, 2-7=-15, 7-10=23, 10-12=34, 12-13=29

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-7=11, 7-12=3, 12-13=-2, 22-26=-12

Horz: 1-2=-19, 2-7=-23, 7-12=15, 12-13=10

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-7=3, 7-12=11, 12-13=7, 22-26=-12

Horz: 1-2=-10, 2-7=-15, 7-12=23, 12-13=19

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-4=4, 4-7=-6, 7-12=-15, 12-13=-10, 22-26=-20

Horz: 1-2=-29, 2-4=-24, 4-7=-14, 7-12=5, 12-13=10

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-10, 2-7=-15, 7-10=-6, 10-12=4, 12-13=9, 22-26=-20

Horz: 1-2=-10, 2-7=-5, 7-10=14, 10-12=24, 12-13=29

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (plf)

Vert: 1-7=-20, 7-13=-20, 22-26=-20, 34-35=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-7=-50, 7-12=-42, 12-13=-38, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-4, 2-7=-0, 7-12=8, 12-13=12

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-38, 2-7=-42, 7-12=-50, 12-13=-46, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-12, 2-7=-8, 7-12=0, 12-13=4

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Job	Truss	Truss Type	Qty	Ply	Roof B	
MASTER120	A01A	COMMON	4	1		163424635
					Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MTek Industries, Inc. Mon Feb 5 13:26:31 2024 Page 3 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-u1gdUFREMkRrei2EBHcKD0Y73GE3f5T0rXbxOXzoAcM

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-32, 4-7=-40, 7-12=-46, 12-13=-43, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-22, 2-4=-18, 4-7=-10, 7-12=4, 12-13=7

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-10=-40, 10-12=-32, 12-13=-28, 22-26=-20, 34-35=-30(F)

Horz: 1-2=-7, 2-7=-4, 7-10=10, 10-12=18, 12-13=22

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60, 7-13=-20, 22-26=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-13=-60, 22-26=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert; 1-7=-50, 7-13=-20, 22-26=-20, 34-35=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-13=-50, 22-26=-20, 34-35=-30(F)





Builders FirstSource (Apex, NC), Apex, NC - 27523

12-33, 11-34, 13-32

ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-0-0 18-0-0

> 5x6 = Scale = 1:64.9

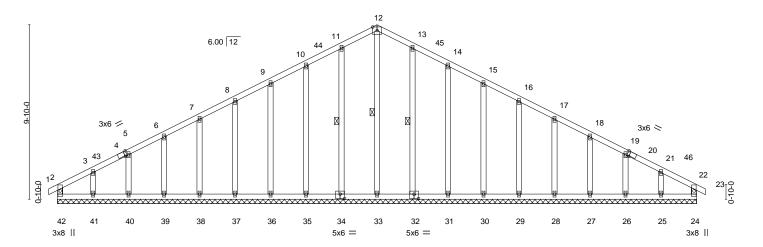


Plate Offsets (X,Y)--[4:0-1-9,Edge], [20:0-1-9,Edge], [32:0-3-0,0-3-0], [34:0-3-0,0-3-0] SPACING-LOADING (psf) DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) -0.00 22 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.07 Vert(CT) 0.00 22 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.13 Horz(CT) 0.01 24 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 244 lb FT = 20%Matrix-R

WEBS

1 Row at midpt

36-0-0

LUMBER-**BRACING-**

2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD TOP CHORD BOT CHORD 2x4 SP No.2 except end verticals. WEBS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 36-0-0.

2x4 SP No.3

Max Horz 42=-117(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 42, 24, 34, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, 28, 27,

26, 25

All reactions 250 lb or less at joint(s) 42, 24, 33, 34, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, Max Grav

28, 27, 26, 25

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 10-11=-101/277, 11-12=-115/313, 12-13=-115/308, 13-14=-101/271

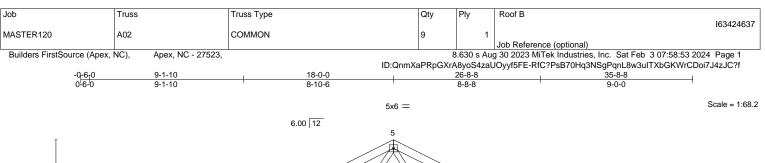
OTHERS

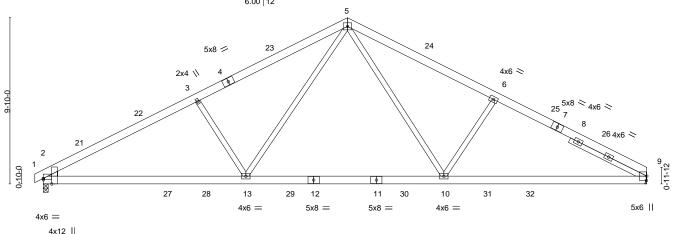
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 18-0-0, Corner(3) 18-0-0 to 21-0-0, Exterior(2) 21-0-0 to 36-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 24, 34, 35, 36, 37, 38, 39, 40, 41, 32, 31, 30, 29, 28, 27, 26, 25.



February 5,2024







∟	11-11-14		23-8-7	1	35-8-8
	11-11-14	ı	11-8-9	1	12-0-1
Plate Offsets (X,Y)	[2:0-0-0,0-0-15], [2:0-3-14,Edge], [9:0-3	3-2,0-0-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.24 10-13	>999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.38 10-13	>999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.37	Horz(CT) 0.06 9	n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.05 13-16	>999 240	Weight: 235 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.2 2x6 SP No.2 **BOT CHORD** WEBS 2x4 SP No.3

WEDGE Left: 2x4 SP No.3

Right 2x4 SP No.3 5-0-7 **SLIDER**

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=117(LC 12)

Max Uplift 2=-3(LC 12)

Max Grav 2=1459(LC 1), 9=1428(LC 1)

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

TOP CHORD 2-3=-2434/190, 3-5=-2218/224, 5-6=-2165/224, 6-9=-2281/193

2-13=-91/2099, 10-13=0/1417, 9-10=-79/2037 **BOT CHORD**

WEBS 3-13=-516/187, 5-13=-20/896, 5-10=-17/852, 6-10=-481/182

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 18-0-0, Exterior(2) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 35-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



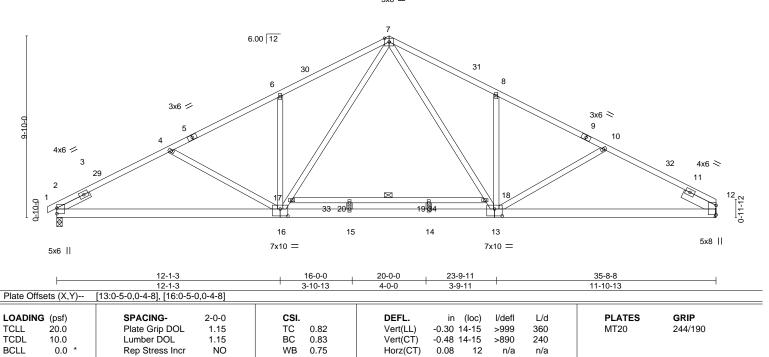
Structural wood sheathing directly applied or 4-3-13 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 5,2024



Job Truss Truss Type Qty Roof B 163424638 MASTER120 A02A COMMON Job Reference (optional) 8.630 s Mar 9 2023 MiTek Industries, Inc. Mon Feb 5 13:26:45 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-UkXwQ2c031CsJr6x?Dscoz7Xpv1oxTD43i_hujzoAc8 Builders FirstSource, Apex, NC 27523 -0-6-0 0-6-0 6-2-5 12-1-3 18-0-0 23-9-11 29-7-5 35-8-8 6-2-5 5-10-13 5-10-13 5-9-11 5-9-11 6-1-3 Scale = 1:62.4 5x6 =



Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

0.08 14-15

>999

1 Row at midpt

240

Structural wood sheathing directly applied or 2-9-3 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 238 lb

FT = 20%

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 *Except*

9-12: 2x4 SP No.1

BOT CHORD 2x6 SP No.2

10.0

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-11-12, Right 2x6 SP No.2 1-11-12

REACTIONS. (lb/size) 2=1459/0-3-8 (min. 0-1-12), 12=1428/Mechanical

Code IRC2015/TPI2014

Max Horz 2=117(LC 12) Max Uplift 2=-3(LC 12)

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

TOP CHORD 2-3=-1039/0, 3-29=-2388/174, 4-29=-2363/199, 4-5=-2102/141, 5-6=-2030/166,

6-30=-2118/231, 7-30=-2030/260, 7-31=-1982/257, 8-31=-2069/229, 8-9=-1989/169, 9-10=-2057/140, 10-32=-2272/199, 11-32=-2312/175, 11-12=-841/0

2-16=-110/2075, 15-16=0/1362, 14-15=0/1362, 13-14=0/1362, 12-13=-103/1994

BOT CHORD 4-16=-316/138, 6-16=-401/164, 16-17=-81/908, 7-17=-81/920, 7-18=-77/868, WEBS

13-18=-76/844, 8-13=-398/161, 10-13=-276/135

NOTES-

1) Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 18-0-0, Exterior(2) 18-0-0 to 22-2-15, Interior(1) 22-2-15 to 35-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2.
- 8) 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.
- 9) N/A

10) 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)

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-60, 21-25=-20

February 5,2024

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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	Roof B	
MASTER120	A02A	COMMON	1	1		163424638
					Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Mon Feb 5 13:26:45 2024 Page 2 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-UkXwQ2c031CsJr6x?Dscoz7Xpv1oxTD43i_hujzoAc8

LOAD CASE(S)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-50, 7-12=-50, 21-25=-20, 33-34=-30(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 21-25=-40, 33-34=-40(F)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=47, 2-29=25, 7-29=14, 7-31=25, 12-31=14, 21-25=-12

Horz: 1-2=-59, 2-29=-37, 7-29=-26, 7-31=37, 12-31=26

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-30=14, 7-30=25, 7-32=14, 12-32=25, 21-25=-12

Horz: 1-2=-21, 2-30=-26, 7-30=-37, 7-32=26, 12-32=37 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-12, 2-7=-33, 7-12=-33, 21-25=-20 Horz: 1-2=-8, 2-7=13, 7-12=-13

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-7=-33, 7-12=-33, 21-25=-20 Horz: 1-2=8, 2-7=13, 7-12=-13

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-7=-2, 7-12=9, 21-25=-12 Horz: 1-2=-21, 2-7=-10, 7-12=21

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=4, 2-7=9, 7-12=-2, 21-25=-12

Horz: 1-2=-16, 2-7=-21, 7-12=10

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-15, 2-7=-20, 7-12=-9, 21-25=-20

Horz: 1-2=-5, 2-7=-0, 7-12=11

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-4, 2-7=-9, 7-12=-20, 21-25=-20

Horz: 1-2=-16, 2-7=-11, 7-12=0

12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=17, 2-4=22, 4-7=11, 7-12=3, 21-25=-12

Horz: 1-2=-29, 2-4=-34, 4-7=-23, 7-12=15

13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-7=3, 7-10=11, 10-12=22, 21-25=-12

Horz: 1-2=-10, 2-7=-15, 7-10=23, 10-12=34

14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=7, 2-7=11, 7-12=3, 21-25=-12

Horz: 1-2=-19, 2-7=-23, 7-12=15

15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-2, 2-7=3, 7-12=11, 21-25=-12

Horz: 1-2=-10, 2-7=-15, 7-12=23

16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=9, 2-4=4, 4-7=-6, 7-12=-15, 21-25=-20

Horz: 1-2=-29, 2-4=-24, 4-7=-14, 7-12=5

17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-10, 2-7=-15, 7-10=-6, 10-12=4, 21-25=-20

Horz: 1-2=-10, 2-7=-5, 7-10=14, 10-12=24

18) Dead + Uninhabitable Attic Storage: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-20, 21-25=-20, 33-34=-40(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-7=-50, 7-12=-42, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-4, 2-7=-0, 7-12=8

20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-38, 2-7=-42, 7-12=-50, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-12, 2-7=-8, 7-12=0

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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	Roof B	
MASTER120	A02A	COMMON	1	1		163424638
					Job Reference (optional)	

Builders FirstSource, Apex, NC 27523

8.630 s Mar 9 2023 MiTek Industries, Inc. Mon Feb 5 13:26:45 2024 Page 3 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-UkXwQ2c031CsJr6x?Dscoz7Xpv1oxTD43i_hujzoAc8

LOAD CASE(S)

21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-28, 2-4=-32, 4-7=-40, 7-12=-46, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-22, 2-4=-18, 4-7=-10, 7-12=4

22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-2=-43, 2-7=-46, 7-10=-40, 10-12=-32, 21-25=-20, 33-34=-30(F)

Horz: 1-2=-7, 2-7=-4, 7-10=10, 10-12=18

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-60, 7-12=-20, 21-25=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-60, 21-25=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert; 1-7=-50, 7-12=-20, 21-25=-20, 33-34=-30(F)

26) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-7=-20, 7-12=-50, 21-25=-20, 33-34=-30(F)





ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 35-8-8 18-0-0

> Scale = 1:65.0 5x6 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

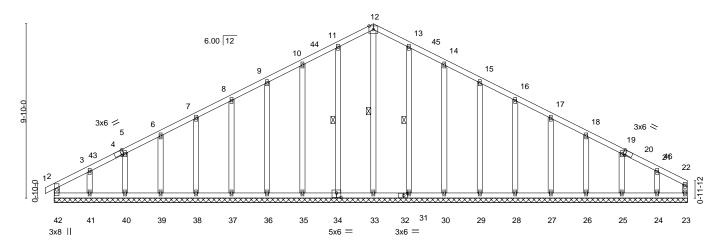


Plate Offsets (X,Y)--[4:0-1-9,Edge], [20:0-1-9,Edge], [32:0-2-8,0-1-8], [34:0-3-0,0-3-0] SPACING-**PLATES** LOADING (psf) DEFL. in (loc) I/defl L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr NO WB 0.13 Horz(CT) 0.00 23 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 243 lb Matrix-R

35-8-8

TOP CHORD

BRACING-LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

2x4 SP No.2 *Except* **BOT CHORD WEBS** 22-23: 2x4 SP No.3 **WEBS**

Rigid ceiling directly applied or 10-0-0 oc bracing. 12-33, 11-34, 13-31 1 Row at midpt **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 35-8-8.

Max Horz 42=122(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 42, 23, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25,

24 except 41=-101(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 42, 23, 33, 34, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 27, 26, 25, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 10-11=-103/282, 11-12=-117/318, 12-13=-117/309, 13-14=-104/273 TOP CHORD

NOTES-

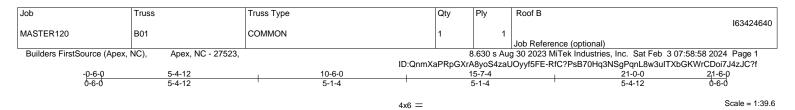
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 18-0-0, Corner(3) 18-0-0 to 21-0-0, Exterior(2) 21-0-0 to 35-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 42, 23, 34, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 24 except (jt=lb) 41=101.



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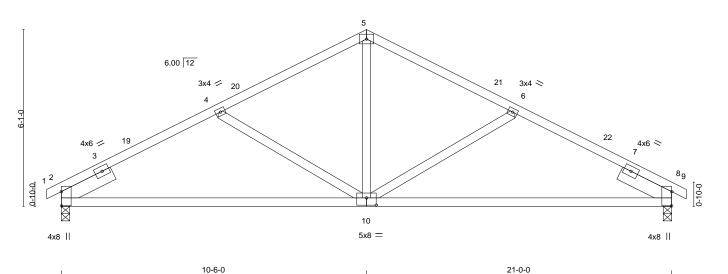


Plate Oils	seis (X, Y)	[2:0-5-13,0-0-1], [8:0-5-13,0-0-1]	[10:0-4-0,0-3-0]			
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.15 10-13	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.88	Vert(CT) -0.30 10-13	>848 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.03 8	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.03 10-13	>999 240	Weight: 103 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3

SLIDER Left 2x6 SP No.2 1-11-12, Right 2x6 SP No.2 1-11-12

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=82(LC 12)

Max Uplift 2=-23(LC 12), 8=-23(LC 13)

Max Grav 2=870(LC 1), 8=870(LC 1)

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

2-4=-1224/147, 4-5=-968/122, 5-6=-968/122, 6-8=-1224/147 TOP CHORD

BOT CHORD 2-10=-69/1050, 8-10=-69/1050

WEBS 5-10=0/548, 6-10=-320/137, 4-10=-320/136

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 10-6-0, Exterior(2) 10-6-0 to 14-8-15, Interior(1) 14-8-15 to 21-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



Structural wood sheathing directly applied or 5-0-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 5,2024



Job Truss Truss Type Qty Roof B 163424641 MASTER120 B01G **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:00 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-6-0 0-6-0 10-6-0 10-6-0 Scale = 1:40.1 4x6 = 8 6 6.00 12 27 26 10 11 ¹²13 0-10-0 0-10-0 25 24 23 22 21 20 19 18 17 16 15 3x8 II 3x8 || 3x6 =

Code IRC2015/TPI2014 BCDL 10.0 LUMBER-

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

21-0-0

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS

20.0

10.0

0.0

LOADING (psf)

TCLL

TCDL

BCLL

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 bracing.

L/d

120

120

n/a

(loc)

12

12

14

0.00

0.00

0.00

I/def

n/r

n/r

n/a

PLATES

Weight: 114 lb

MT20

GRIP

244/190

FT = 20%

BOT CHORD

2x4 SP No.2 2x4 SP No.3

2-0-0

1.15

1.15

NO

REACTIONS. All bearings 21-0-0.

Max Horz 25=77(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 25, 14, 19, 20, 21, 23, 24, 18, 17, 16, 15

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

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 10-6-0, Corner(3) 10-6-0 to 13-6-0, Exterior(2) 13-6-0 to 21-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-R

0.06

0.05

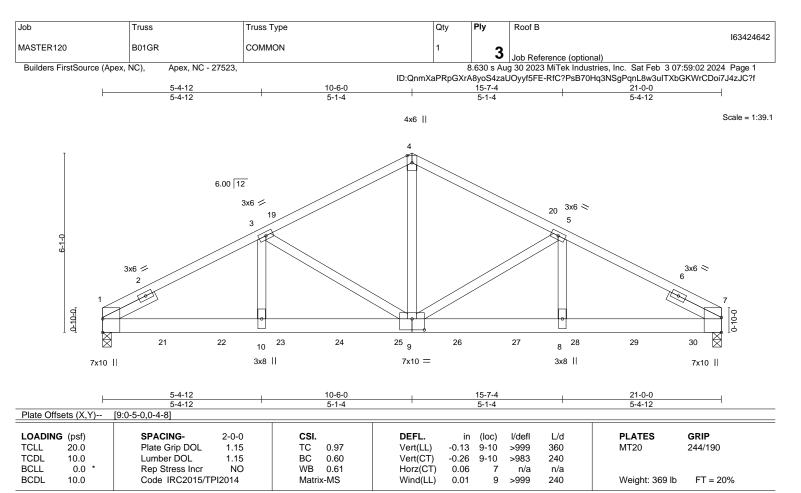
0.07

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 14, 20, 21, 23, 24, 18, 17, 16, 15.



February 5,2024





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP DSS **BOT CHORD** 2x4 SP No.3 *Except* **WEBS**

4-9: 2x4 SP No.2

SLIDER Left 2x4 SP No.2 1-11-12, Right 2x4 SP No.2 1-11-12

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=76(LC 8)

Max Grav 1=7473(LC 1), 7=8226(LC 1)

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

TOP CHORD 1-3=-11837/0, 3-4=-8886/0, 4-5=-8888/0, 5-7=-11934/0 BOT CHORD 1-10=0/10470, 9-10=0/10470, 8-9=0/10563, 7-8=0/10563 **WEBS** 4-9=0/7486, 5-9=-3131/0, 5-8=0/2919, 3-9=-3022/0, 3-10=0/2834

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1402 lb down at 2-0-12, 1402 lb down at 4-0-12, 1402 lb down at 6-0-12, 1402 lb down at 8-0-12, 1402 lb down at 10-0-12, 1402 lb down at 12-0-12, 1402 lb down at 14-0-12, 1402 lb down at 16-0-12, and 1402 lb down at 18-0-12, and 1404 lb down at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-15=-20



Structural wood sheathing directly applied or 4-0-8 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Continued on page 2

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 Roof B 163424642 MASTER120 B01GR COMMON

Builders FirstSource (Apex, NC), Apex, NC - 27523,

3 Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:02 2024 Page 2 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 21=-1402(B) 22=-1402(B) 23=-1402(B) 24=-1402(B) 25=-1402(B) 26=-1402(B) 27=-1402(B) 28=-1402(B) 29=-1402(B) 30=-1404(B)



818 Soundside Road Edenton, NC 27932

ob	Truss	Truss Type	Qty		Ply	Roof B		100404040
MASTER120	P02	JACK	8		1			163424643
		57.613	Ů		•	Job Reference (options	al)	
Builders FirstSource (Apex, I	NC), Apex, NC - 27523,					g 30 2023 MiTek Indust		
	0.6.0		D:QnmXaPRp 6-0-0	GXrA8	ByoS4zal	JOyyf5FE-RfC?PsB70H	lq3NSgPqnL8w3uITXb	GKWrCDoi7J4zJC?f
	-0-6-0 0-6-0	6	6-0-0					
							2x4	Scale = 1:15.4
							3	
Ī]
		4.00 12						
								ω
q		9						5-1-8
2-5-0								2-5-0
		8						
	2							
T	1							
0-5-0							 • 	1 \[\oint_0 \]
4								8-6-0
							4	
	X						2x4	
							2,4	
	3x4 =							
	φ-2-8 0-2-8		6-0-0 5-9-8				——	
	U-2-8		5-9-8					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15			0.05		>999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15			0.12		>570 240		
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2015/TPI2014			0.01 0.05	2 4-7	n/a n/a >999 240	Weight: 22 lb	FT = 20%
DODL 10.0	Code IRC2013/17/2014	IVIAUIX-IVIF	vviiiu(LL)	0.05	4-7	2333 240	weignt. 22 lb	r I = 20%
LIMPED			DACING					

TOP CHORD

BOT CHORD

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

2x4 SP No.3 **WEBS**

REACTIONS. (size) 2=0-3-0, 4=0-1-8 Max Horz 2=77(LC 11)

Max Uplift 2=-39(LC 8), 4=-34(LC 12) Max Grav 2=265(LC 1), 4=233(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-6-0 to 2-6-0, Interior(1) 2-6-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

February 5,2024



Job Truss Truss Type Qty Roof B 163424644 MASTER120 P02G **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:03 2024 Page 1

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

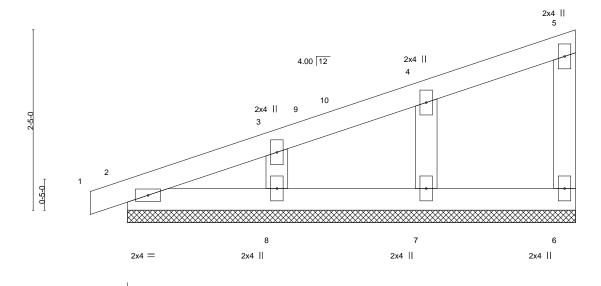
-0-6-0

0-6-0

ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-0-0 6-0-0

Scale = 1:15.4



LOADING	\(\(\)	SPACING-	2-0-0	CSI.	0.07	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.07 0.04	Vert(LL) Vert(CT)	-0.00 0.00	1	n/r n/r	120 120	MT20	244/190
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2015/TF	NO PI2014	WB Matri	0.04 x-P	Horz(CT)	0.00	6	n/a	n/a	Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

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 10-0-0 oc bracing.

REACTIONS. All bearings 6-0-0.

Max Horz 2=77(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-0 to 2-6-0, Exterior(2) 2-6-0 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.





Job Truss Truss Type Qty Roof B 163424645 MASTER120 P03G **GABLE**

Builders FirstSource (Apex, NC), Apex, NC - 27523

Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:04 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f

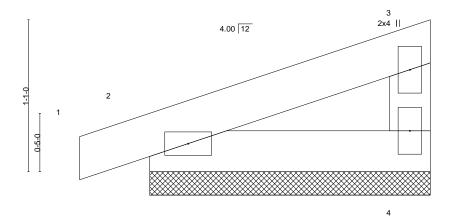
Structural wood sheathing directly applied or 2-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

-0-6-0 2-0-0 0-6-0 2-0-0

Scale = 1:8.2



2x4 = 2x4 II

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 120 244/190 **TCLL** 0.05 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 8 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

4=2-0-0, 2=2-0-0 (size) Max Horz 2=28(LC 9) Max Uplift 4=-10(LC 12), 2=-25(LC 8) Max Grav 4=70(LC 1), 2=108(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 1-4-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.





Job Truss Truss Type Qty Ply Roof B 163424646 MASTER120 V05 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:06 2024 Page 1

Builders FirstSource (Apex, NC), Apex, NC - 27523,

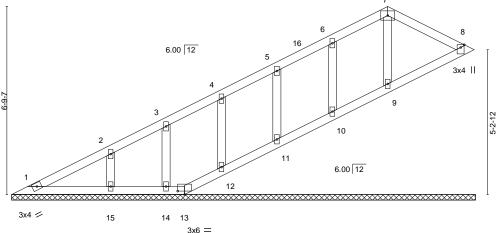
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Scale = 1:41.6

4x6 =

16-8-14 13-6-14 3-2-0

6



16-8-14

Plate Off	fsets (X,Y)	[13:0-3-0,0-1-8]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S						Weight: 74 lb	FT = 20%

LUMBER-BRACING-

2x4 SP No.2 TOP CHORD TOP CHORD BOT CHORD **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-8-14. (lb) -Max Horz 1=191(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 11, 12, 14, 15

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 9, 10, 11, 12, 14, 15

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-7 to 3-6-14, Interior(1) 3-6-14 to 13-6-14, Exterior(2) 13-6-14 to 16-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 10, 11, 12, 14,
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9, 10, 11, 12.





Job Truss Truss Type Qty Roof B 163424647 MASTER120 V07 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:07 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-7-8 Scale = 1:38.9 4x6 = 6 6.00 12 23 3 10 3x4 > 3x4 / 21 20 19 18 17 16 15 14 13 12 3x6 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES GRIP** (loc) 20.0 Plate Grip DOL 999 244/190 **TCLL** 1.15 TC 0.10 Vert(LL) n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 11 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

10.0

REACTIONS. All bearings 23-3-0. Max Horz 1=80(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 18, 20, 21, 15, 14, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 17, 18, 20, 21, 15, 14, 13, 12

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

Code IRC2015/TPI2014

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-7-7 to 3-7-8, Exterior(2) 3-7-8 to 11-7-8, Corner(3) 11-7-8 to 14-7-8, Exterior(2) 14-7-8 to 22-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 18, 20, 21, 15, 14, 13, 12.



Weight: 112 lb

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

FT = 20%

February 5,2024

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 Roof B 163424648 MASTER120 V08 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:09 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 9-7-8 Scale: 3/8"=1 4x6 = 5 6 6.00 12 19 18 8 3x4 / 3x4 < 17 16 15 14 13 12 11 10 3x6 = 19-3-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/defl 20.0 Plate Grip DOL 999 244/190 **TCLL** 1.15 TC 0.10 Vert(LL) n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 9 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 85 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 19-3-0. Max Horz 1=65(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 15, 16, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-7-7 to 3-7-8, Exterior(2) 3-7-8 to 9-7-8, Corner(3) 9-7-8 to 12-7-8, Exterior(2) 12-7-8 to 18-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 15, 16, 12, 11, 10.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 5,2024

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 Roof B 163424649 MASTER120 V09 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:10 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Scale = 1:24.5 4x6 = 6.00 12 12 11 10 9 8 3x4 / 3x4 ≥ LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 0.10 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 61 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 15-3-0. Max Horz 1=51(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 12, 9, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-7-7 to 3-7-8, Exterior(2) 3-7-8 to 7-7-8, Corner(3) 7-7-8 to 10-7-8, Exterior(2) 10-7-8 to 14-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 9, 8.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

February 5,2024

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

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Job Truss Truss Type Qty Roof B 163424650 MASTER120 V10 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:11 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-7-8 Scale = 1:19.1 4x6 =3 6.00 12 2x4 || 4 2x4 || 2 10 8 7 6 3x4 / 3x4 ≥ 2x4 || 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.11 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 41 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 11-3-0.

Max Horz 1=36(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=256(LC 23), 6=256(LC 24)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-7-7 to 3-7-8, Exterior(2) 3-7-8 to 5-7-8, Corner(3) 5-7-8 to 8-7-8, Exterior(2) 8-7-8 to 10-7-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



Job Truss Truss Type Qty Roof B 163424651 MASTER120 V11 **GABLE** Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Sat Feb 3 07:59:12 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Scale = 1:13.7 4x6 = 2 6.00 12 1-9-12 4 2x4 / 2x4 || 2x4 > LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.12 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 23 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS.

1=7-3-0, 3=7-3-0, 4=7-3-0 (size) Max Horz 1=22(LC 12) Max Uplift 1=-15(LC 12), 3=-19(LC 13)

Max Grav 1=111(LC 23), 3=111(LC 24), 4=262(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

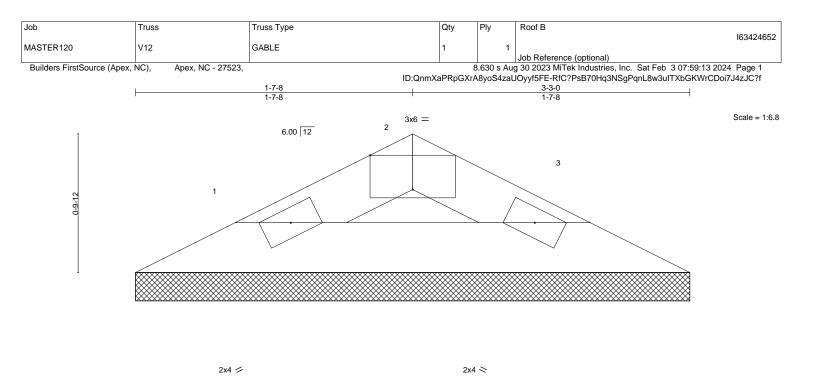
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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LOADING (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert(LL) n/a - n/a 999 MT20 244/190		
TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert/LL) n/a - n/a 999 MT20 244/190	2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES GRIP	
10LL 20.0 1 late on bot 1.10 10 0.00 Vert(LL) 1/4 1/4 000 W120 244/100	OOL 1.15 TC 0.03 Vert(LL) n/a - n/a 999 MT20 244/190	
TCDL 10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) n/a - n/a 999	ıL 1.15 BC 0.05 Vert(CT) n/a - n/a 999	
BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a	Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0 Code IRC2015/TPI2014 Matrix-P Weight: 8 lb FT = 20%	.015/TPI2014 Matrix-P Weight: 8 lb FT = 20	%

3-3-0

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-3-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 1=3-3-0, 3=3-3-0 (size)

Max Horz 1=-7(LC 17) Max Uplift 1=-5(LC 12), 3=-5(LC 13)

Max Grav 1=81(LC 1), 3=81(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=32ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



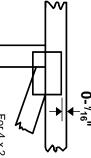


Symbols

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- $\frac{1}{16}$ from outside edge of truss.

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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

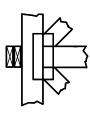
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

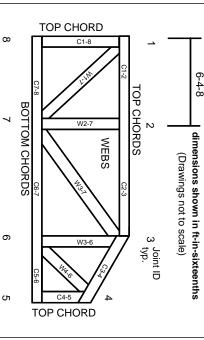
Industry Standards:

ANSI/TPI1: DSB-22:

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.

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.

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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.

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- 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.

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- 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.

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- 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.