

Trenco

818 Soundside Rd Edenton, NC 27932

Re: Master120 Hayden 120

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: I65375544 thru I65375564

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

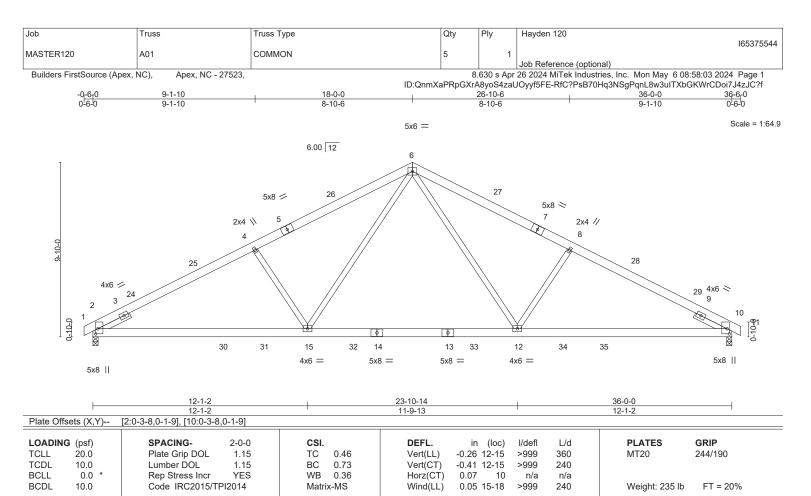
North Carolina COA: C-0844



May 7,2024

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 2x4 SP No 3 WERS

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.

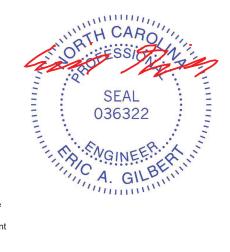
TOP CHORD 2-4=-2389/189, 4-6=-2188/220, 6-8=-2188/220, 8-10=-2389/189

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

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.

May 7,2024





Job Truss Qty Truss Type Hayden 120 165375545 MASTER120 COMMON A01A Job Reference (optional) 8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 7 11:12:15 2024 Page 1 Builders FirstSource (Apex, NC), Apex, NC - 27523, ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-62qdav4eS2IqccRQoiwoRW5Sr8ay2wuTQqeUvxzJ45U 36-0-0 23-10-13 29-9-11 12-1-3 18-0-0 36-6-0

5-10-13

5-10-13

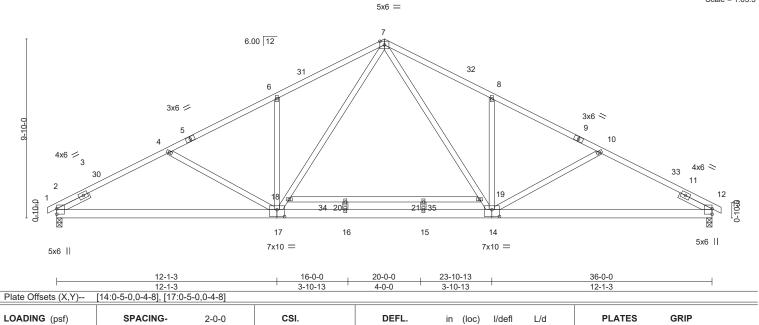
5-10-13

Scale = 1:63.3

5-10-13

0-6-0

6-2-5



Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.34 15-16

-0.53 15-16

0.08 15-16

12

0.07

>999

>819

>999

n/a

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

10.0

10.0

0.0

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

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

REACTIONS. (size) 2=0-3-8, 12=0-3-8 Max Horz 2=-113(LC 17)

6-2-5

Max Uplift 2=-2(LC 12), 12=-2(LC 13) Max Grav 2=1470(LC 1), 12=1470(LC 1)

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

2-4=-2411/200, 4-6=-2125/167, 6-7=-2141/259, 7-8=-2141/259, 8-10=-2125/167, TOP CHORD

1.15

1.15

NO

TC

BC

WB

Matrix-MS

0.84

0.86

0.84

10-12=-2411/200

BOT CHORD 2-17=-93/2094, 16-17=0/1345, 15-16=0/1345, 14-15=0/1345, 12-14=-94/2094 7-19=-80/918, 14-19=-82/917, 8-14=-401/164, 10-14=-316/138, 17-18=-82/918, **WEBS**

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) All bearings are assumed to be User Defined crushing capacity of 565 psi.

7) 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.

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).

LOAD CASE(S)

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



244/190

FT = 20%

MT20

Structural wood sheathing directly applied or 2-7-6 oc purlins.

Weight: 239 lb

May 7,2024



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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	Hayden 120	
			'	*	1	165375545
MASTER120	A01A	COMMON	4	1		
	/ 6 / /		'		Job Reference (optional)	
Builders FirstSource (Apex, N	IC), Apex, NC - 27523,				3.630 s Aug 30 2023 MiTek Industries, Inc.	Tue May 7 11:12:16 2024 Page 2
(1 ,	- // //	ID:OnmV	DD D C V T A O	C4-0110v	AFELL OLOUPECONNOPLEMONTO	indb/wDaNIOdfINIOCNI- IAET

ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-aEO0nF5GDMQhEm0cMPR1 jedbYwBnN8dfUN2SNz

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	Hayden 120	
MASTER120	A01A	COMMON	4	1	Job Reference (optional)	165375545

Builders FirstSource (Apex. NC).

Apex. NC - 27523.

8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 7 11:12:16 2024 Page 3 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-aEO0nF5GDMQhEm0cMPR1_jedbYwBnN8dfUN2SNzJ45T

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)



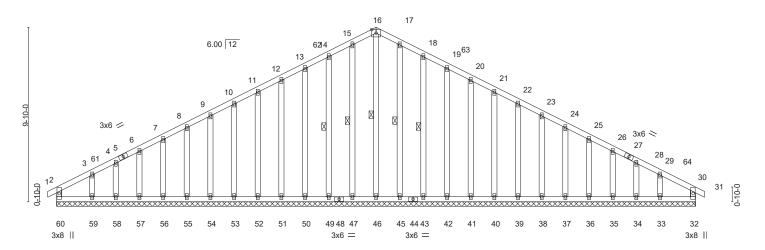
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Hayden 120 165375546 A01G **GABLE** MASTER120 Job Reference (optional)

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

8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:05 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-0-0 36-0-0 18-0-0 18-0-0

> Scale = 1:64.9 5x6 =



36-0-0 36-0-0 GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) -0.00 30 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) 0.00 30 n/r 120 0.09 **BCLL** 0.0 Rep Stress Incr NO WB Horz(CT) 0.01 32 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-R Weight: 307 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 2x4 SP No.2 except end verticals. 2x4 SP No 2 BOT CHORD WFBS Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 OTHERS WFBS 1 Row at midpt 16-46, 15-47, 14-49, 17-45, 18-43

REACTIONS. All bearings 36-0-0.

Max Horz 60=-117(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 60, 32, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 45, 43, 42,

41, 40, 39, 38, 37, 36, 35, 34, 33 except 59=-105(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 60, 32, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 45, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33

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

TOP CHORD 13-14=-95/266, 14-15=-106/297, 15-16=-110/311, 16-17=-110/305, 17-18=-106/292,

18-19=-95/260

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 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 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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) 60, 32, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 45, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33 except (jt=lb) 59=105.



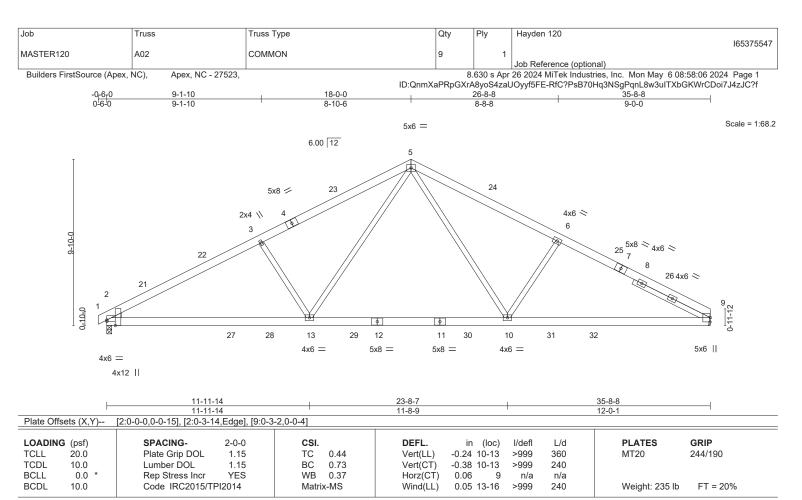
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

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

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

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

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.
- 4) * 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.



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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Job Truss Qty Truss Type Hayden 120 165375548 MASTER120 A02A COMMON Job Reference (optional)

8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 7 11:12:53 2024 Page 1
ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-?M7?YvYTVj4RASLj0gci_WgyWTZGy8b39krVEkzJ44u Builders FirstSource (Apex, NC), Apex, NC - 27523, 29-7-5 35-8-8 12-1-3 18-0-0 23-9-11 6-2-5 5-10-13 5-9-11 5-10-13 5-9-11 6-1-3 Scale = 1:62.9 5x6 = 6.00 12 6 3x6 / 3x6 < 9-10-0 9 4x6 / 32 4x6 < 11 1984 33 20 16 15 14 13 5x8 || 7x10 =7x10 = 5x6 II 12-1-3 16-0-0 20-0-0 23-9-11 35-8-8 12-1-3 3-10-13 4-0-0 3-9-11 11-10-13 [13:0-5-0,0-4-8], [16:0-5-0,0-4-8] Plate Offsets (X,Y)--

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

in (loc)

0.08

-0.30 14-15

-0.48 14-15

0.08 14-15

12

I/defl

>999

>892

>999

1 Row at midpt

n/a

I/d

360

240

n/a

240

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

2x4 SP No.2 *Except* TOP CHORD

20.0

10.0

10.0

0.0

9-12: 2x4 SP No.1 2x6 SP No.2

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

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

REACTIONS. (size) 2=0-3-8, 12=Mechanical

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

Max Grav 2=1459(LC 1), 12=1428(LC 1)

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

TOP CHORD 2-4=-2388/199, 4-6=-2102/166, 6-7=-2118/260, 7-8=-2069/257, 8-10=-2057/169,

2-0-0

1.15

1.15

NO

CSI.

TC

BC

WB

Matrix-MS

0.82

0.83

0.76

10-12=-2312/199

BOT CHORD 2-16=-110/2074, 15-16=0/1361, 14-15=0/1361, 13-14=0/1361, 12-13=-103/1994 4-16=-316/138, 6-16=-401/164, 16-17=-82/908, 7-17=-81/920, 7-18=-77/868, WFBS

13-18=-76/845, 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
- 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) All bearings are assumed to be User Defined crushing capacity of 565 psi.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 2.
- 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

minimi

PLATES

Weight: 239 lb

MT20

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

GRIP

244/190

FT = 20%

May 7,2024

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8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 7 11:12:53 2024 Page 2 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-?M7?YvYTVj4RASLj0gci_WgyWTZGy8b39krVEkzJ44u

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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Job	Truss	Truss Type	Qty	Ply	Hayden 120	
MASTER120	A02A	COMMON	1	1		165375548
					Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex. NC - 27523.

8.630 s Aug 30 2023 MiTek Industries, Inc. Tue May 7 11:12:53 2024 Page 3 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-?M7?YvYTVj4RASLj0gci_WgyWTZGy8b39krVEkzJ44u

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)



818 Soundside Road Edenton, NC 27932

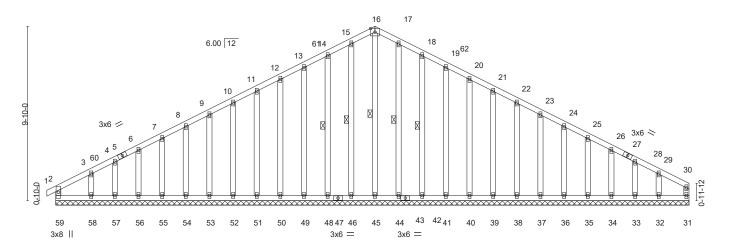
Job Truss Truss Type Qty Ply Hayden 120 165375549 A02G **GABLE** MASTER120 Job Reference (optional)

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

8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:08 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 35-8-8 17-8-8

5x6 =

Scale = 1:65.0



35-8-8 35-8-8

18-0-0

18-0-0

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	1.15	TC	0.10	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1	1.15	BC	0.07	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	31	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20)14	Matri	x-R						Weight: 306 lb	FT = 20%

LUMBER-**BRACING-**

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

2x4 SP No.2 *Except* WFBS

30-31: 2x4 SP No.3 **OTHERS** 2x4 SP No.3

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.

WFBS 1 Row at midpt 16-45, 15-46, 14-48, 17-44, 18-42

REACTIONS. All bearings 35-8-8.

(lb) - Max Horz 59=122(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 59, 31, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 42, 41, 40,

39, 38, 37, 36, 35, 34, 33, 32 except 58=-106(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 59, 31, 45, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58,

44, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32

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

13-14=-97/271, 14-15=-109/303, 15-16=-112/316, 16-17=-112/309, 17-18=-109/293, TOP CHORD

18-19=-97/261

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 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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) 59, 31, 46, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32 except (jt=lb) 58=106.

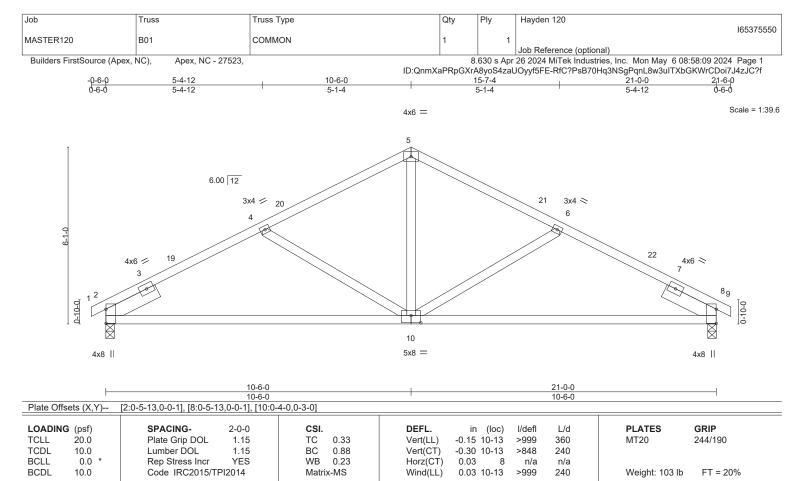


May 7,2024

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

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. TOP CHORD

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

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

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

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 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.
- 4) * 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.

May 7,2024

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Job Truss Truss Type Qty Ply Hayden 120 165375551 B01G **GABLE** MASTER120 Job Reference (optional)

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

10-6-0 10-6-0

8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:10 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-0-0 21-6-0 0-6-0 10-6-0

4x6 =

Scale = 1:40.1

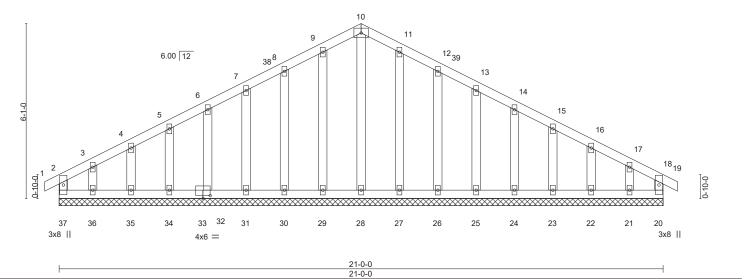


Plate Offsets (X,Y)-[33:0-3-0,0-1-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) -0.00 18 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) -0.00 18 120 n/r WB 0.07 **BCLL** 0.0 Rep Stress Incr NO Horz(CT) 0.00 20 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-R Weight: 137 lb FT = 20%

LUMBER-TOP CHORD 2x4 SP No.2

BOT CHORD

2x4 SP No 2

2x4 SP No.2 WERS **OTHERS** 2x4 SP No.3 BRACING-

BOT CHORD

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.

REACTIONS. All bearings 21-0-0.

(lb) - Max Horz 37=77(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 37, 20, 29, 30, 31, 32, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21 Max Grav All reactions 250 lb or less at joint(s) 37, 20, 28, 29, 30, 31, 32, 34, 35, 36, 27, 26, 25, 24, 23,

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

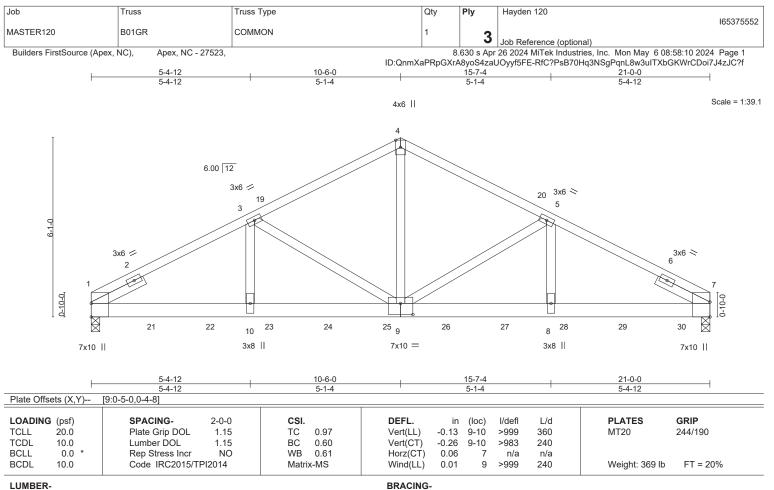
NOTES-

- 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) -0-6-0 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
- 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 1-4-0 oc
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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) 37, 20, 29, 30, 31, 32, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21.



May 7,2024





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP DSS

2x4 SP No.3 *Except* WFBS 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

NOTES-

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

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

May 7,2024

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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 a duss system. Before dust, the culturing design in this very like application, or design plantalleters and properly into properly and beginning the design 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	Hayden 120
MACTED 400	D040D	001111011	_		165375552
MASTER120	B01GR	COMMON	1	3	Job Reference (optional)

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

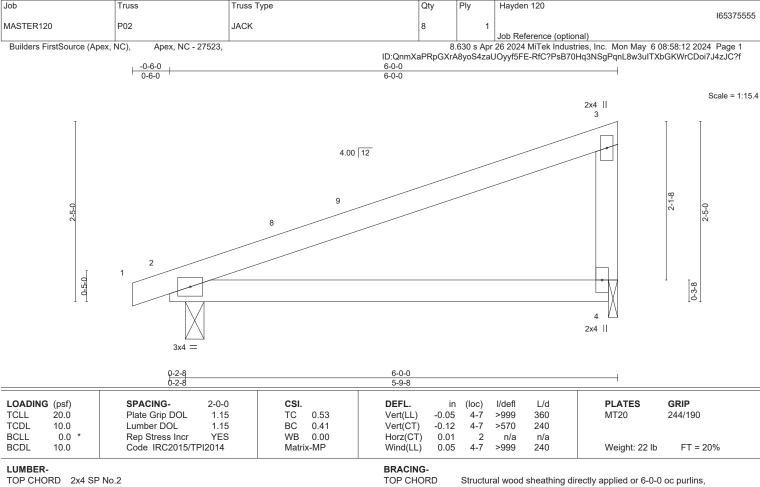
8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:10 2024 Page 2 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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)





BOT CHORD

except end verticals.

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

BOT CHORD 2x4 SP No.2 WFBS

2x4 SP No.3

(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-

REACTIONS.

- 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.





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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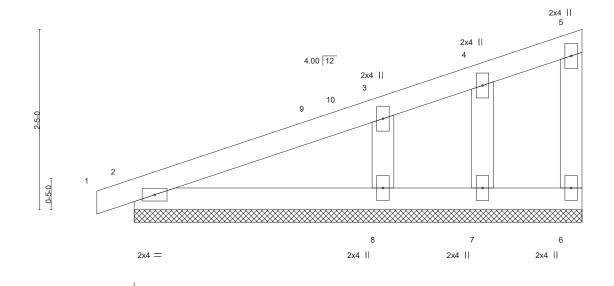
Job	Truss	Truss Type	Qty	Ply	Hayden 120	
MASTER120	P02G	GABLE	1	1	165375556	ò
WW. COTERTIES	1.020	S. ISEE	Ι΄.		Job Reference (optional)	

Builders FirstSource (Apex, NC),

Apex, NC - 27523,

8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:12 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Scale = 1:15.4



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in ((loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 26 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 WFBS 2x4 SP No.3 OTHERS

BRACING-

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

except end verticals

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

REACTIONS. All bearings 6-0-0.

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

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 except 8=273(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) -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 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.
- 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	Ply	Hayden 120
MASTER120	P03G	GABLE	1	1	16537555
WASTERTES	1 000	OABLE	'	· '	Job Reference (optional)

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

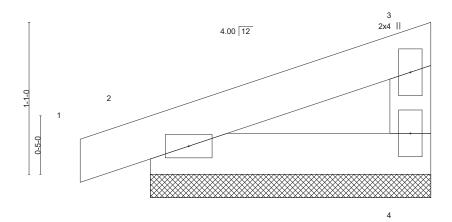
8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:13 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 2-0-0

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

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

except end verticals

Scale = 1:8.2



2x4 = 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

-0-6-0

0-6-0

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	12014	Matri	x-P						Weight: 8 lb	FT = 20%

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3

Max Uplift 4=-10(LC 12), 2=-25(LC 8)

(size) 4=2-0-0, 2=2-0-0 Max Horz 2=28(LC 9)

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.
- 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) 4, 2.





Job Truss Truss Type Qty Ply Hayden 120 165375558 MASTER120 V05 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:13 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 13-6-14 16-8-14 13-6-14 3-2-0 Scale = 1:41.6 3x6 =11 12 10 13 9 28 6.00 12 8 3x4 15 16 17 18 27 3 19 6.00 12 20 26 25 24 23 22 3x6 =6-2-14 10-6-0

Plate Off	sets (X,Y)	[11:0-3-0,Edge], [23:0-3-0	J,U-1 - 8]										
LOADIN	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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	-0.00	14	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 87 lb	FT = 20%	

TOP CHORD 2x4 SP No 2

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

BRACING-

TOP CHORD **BOT CHORD** 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) 14, 23, 15, 18, 19, 20, 26, 25, 24, 22, 21

Max Grav All reactions 250 lb or less at joint(s) 1, 14, 23, 15, 16, 17, 18, 19, 20, 26, 25, 24, 22, 21

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

LUMBER-

- 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 3-7-7, Interior(1) 3-7-7 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) 14, 23, 15, 18, 19, 20, 26, 25, 24, 22, 21.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 14, 15, 16, 17, 18, 19, 20, 22, 21.



Job Truss Truss Type Qty Ply Hayden 120 165375559 MASTER120 V07 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:14 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:38.9 4x6 = 6 5 6.00 12 23 22 3 10 2 3x4 > 3x4 / 21 20 14 13 12 19 18 17 16 15 3x6 = 23-3-0

LOADIN	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	0.10	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	0.06	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	12014	Matri	x-S	, ,					Weight: 112 lb	FT = 20%

23-3-0

LUMBER-

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

BRACING-

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

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

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.

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 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
- 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.



May 7,2024

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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)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Hayden 120 165375560 MASTER120 V08 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:15 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 19-3-0 Scale: 3/8"=1 4x6 = 5 6 6.00 12 19 18 3 8 2 3x4 / 3x4 < 17 16 15 14 13 12 10 11 3x6 =19-3-0 19-3-0 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 0.10 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a n/a 999 **BCLL** WB 0.0 Rep Stress Incr YES 0.05 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 85 lb FT = 20%LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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-

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 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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) 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.



May 7,2024



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/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)



165375561 MASTER120 V09 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:15 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:24.5 4x6 = 6.00 12 5 3 14 13 12 11 10 9 8 3x4 🖊 3x4 ≥ 15-3-0 15-3-0 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 0.10 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a n/a 999 **BCLL** WB 0.05 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 61 lb FT = 20%

Qty

Ply

Hayden 120

LUMBER-

Job

Truss

Truss Type

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

BRACING-

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

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.

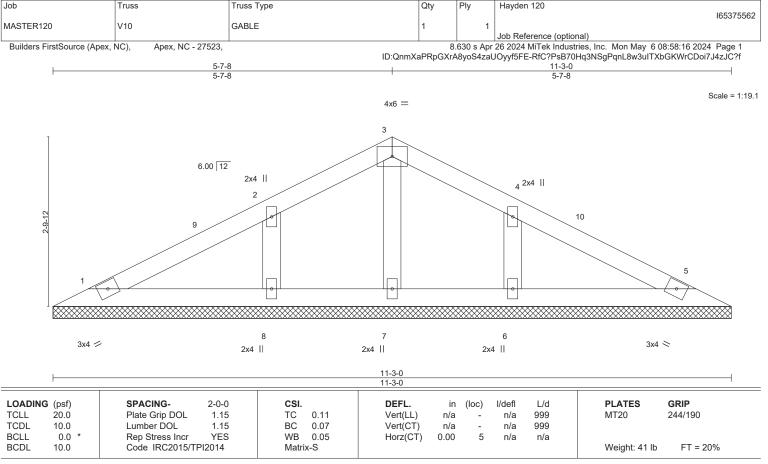
NOTES-

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.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 9, 8.







LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 11-3-0.

Max Horz 1=36(LC 12)

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.
- 7) * 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.



May 7,2024



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MASTER120 V11 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:16 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 3-7-8 3-7-8 Scale = 1:13.7 4x6 = 2 6.00 12 3 2x4 / 2x4 || 2x4 < GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES TCLL** 20.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** WB 0.04 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 Weight: 23 lb BCDL 10.0 Matrix-S FT = 20%

Qty

Ply

Hayden 120

165375563

LUMBER-

Job

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

BRACING-

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

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

REACTIONS. (size) 1=7-3-0, 3=7-3-0, 4=7-3-0

Truss

Truss Type

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.
- 7) * 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.



May 7,2024

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818 Soundside Road Edenton, NC 27932

Truss Type Qty Ply Hayden 120 165375564 MASTER120 V12 **GABLE** Job Reference (optional) Builders FirstSource (Apex, NC), Apex, NC - 27523, 8.630 s Apr 26 2024 MiTek Industries, Inc. Mon May 6 08:58:17 2024 Page 1 ID:QnmXaPRpGXrA8yoS4zaUOyyf5FE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Scale = 1:6.8 3x6 = 6.00 12

> 2x4 // 2x4 <

3-3-0 [2:0-3-0 Edge]

LOADING (psf) SPACING- 2-0-0 CSI. DEF TCLL 20.0 Plate Grip DOL 1.15 TC 0.03 Vert TCDL 10.0 Lumber DOL 1.15 BC 0.05 Vert BCLL 0.0 * Rep Stress Incr YES WB 0.00 Horz BCDL 10.0 Code IRC2015/TPI2014 Matrix-P	_) n/a - n/a 999 MT20 244/190 T) n/a - n/a 999

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Job

Truss

TOP CHORD 2x4 SP No 2 BOT CHORD

2x4 SP No.2

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

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

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.
- 7) * 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 3-3-0 oc purlins.

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

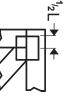
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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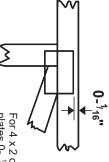


Symbols

PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

* Plate location details available in MiTek software or upon request

PLATE SIZE

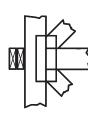
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

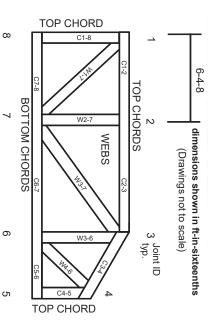
Industry Standards:

ANSI/TPI1: National Design Specification for Metal Installing, Restraining & Bracing of Metal Design Standard for Bracing.

Building Component Safety Information, Plate Connected Wood Trusses Guide to Good Practice for Handling, Plate Connected Wood Truss Construction.

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MiTek



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

▲ General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For 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 all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other

5

- 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 camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.