

Trenco 818 Soundside Rd Edenton, NC 27932

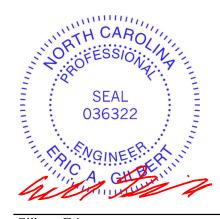
Re: 25-4377-A RGA 466 ROOF

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Riverside Roof Truss.

Pages or sheets covered by this seal: I75244243 thru I75244275

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

North Carolina COA: C-0844



July 31,2025

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job Truss Truss Type Qty Ply RGA 466 ROOF 175244243 G01 25-4377-A Common Girder 2 Job Reference (optional)

4x4 =

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:38 2025 Page 1

ID:bvA_Tz0lty19PgKiShYYglyupVV-Z1D09dEYPVwufDPFTdMkwkPeZBHSZMSr2Cw2pSytESI 3-10-0 3-10-0 7-8-0 11-6-0 15-4-0 3-10-0 3-10-0 3-10-0

Scale = 1:45.7

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

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

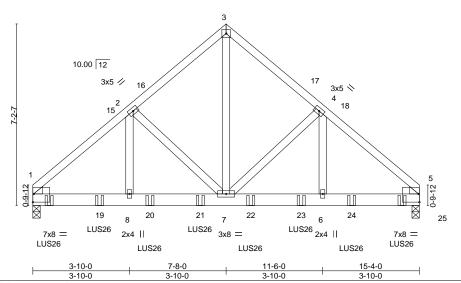


Plate Offsets (X,Y)-- [1:Edge,0-3-14], [5:Edge,0-3-14]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO	CSI. TC 0.24 BC 0.47 WB 0.52	DEFL. in (loc) l/defl L/c Vert(LL) -0.04 7-8 >999 240 Vert(CT) -0.06 7-8 >999 240 Horz(CT) 0.02 5 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	1.0.2(0.1) 0.02 0 1.70 1.70	Weight: 202 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 WFBS

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=-150(LC 43) Max Uplift 1=-146(LC 16), 5=-145(LC 17)

Max Grav 1=3010(LC 2), 5=2978(LC 2)

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

TOP CHORD $1\hbox{-}2\hbox{--}3147/224, 2\hbox{-}3\hbox{--}2317/234, 3\hbox{-}4\hbox{--}2317/234, 4\hbox{-}5\hbox{--}3183/225}$ BOT CHORD 1-8=-168/2337, 7-8=-168/2337, 6-7=-110/2367, 5-6=-110/2367 WEBS 3-7=-194/2524, 4-7=-926/171, 4-6=-20/920, 2-7=-884/169, 2-8=-17/872

NOTES-

1) 2-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 0-9-0 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-8-0, Exterior(2R) 7-8-0 to 10-8-0, Interior(1) 10-8-0 to 15-4-0 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
- 5) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 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) except (jt=lb) 1=146. 5=145.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 0-7-12 from the left end to 14-7-12 to connect truss(es) to back face of bottom chord.

11) Fill all nail holes where hanger is in contact with lumber.

July 31,2025



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org)

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job		Truss	Truss Type	Qty	Ply	RGA 466 ROOF
						175244243
25-4	1377-A	G01	Common Girder	1	2	Joh Reference (ontional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:38 2025 Page 2 ID:bvA_Tz0lty19PgKiShYYglyupVV-Z1D09dEYPVwufDPFTdMkwkPeZBHSZMSr2Cw2pSytESI

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 1-3=-66, 3-5=-66, 9-12=-20

Concentrated Loads (lb)

Vert: 11=-520(B) 19=-517(B) 20=-517(B) 21=-517(B) 22=-517(B) 23=-517(B) 24=-517(B) 25=-520(B)

lua Din





818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply RGA 466 ROOF 175244244 J01 Jack-Closed 8 25-4377-A Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:38 2025 Page 1

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

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

except end verticals.

1 Row at midpt

ID:bvA_Tz0Ity19PgKiShYYglyupVV-Z1D09dEYPVwufDPFTdMkwkPVrBJIZMxr2Cw2pSytESI 5-10-0 5-10-0

Scale = 1:49.1

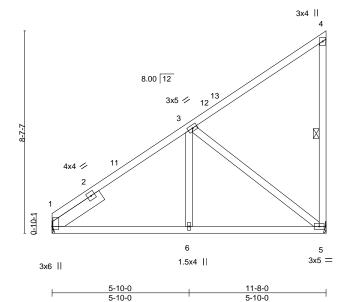


Plate Offsets	(X,Y)	[1:0-1-8,0-0-7]
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LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.80 BC 0.32 WB 0.56	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 5-6 >999 360 Vert(CT) -0.06 5-6 >999 240 Horz(CT) -0.01 1 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	1.6.2(6.7) 6.67 1 1.74 1.74	Weight: 73 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No 3 WFBS

SLIDER Left 2x6 SP No.2 2-6-0

REACTIONS.

(size) 1=Mechanical, 5=Mechanical

Max Horz 1=288(LC 15)

Max Uplift 1=-14(LC 16), 5=-86(LC 13) Max Grav 1=576(LC 2), 5=653(LC 22)

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

TOP CHORD 1-3=-547/113, 4-5=-259/154 BOT CHORD 1-6=-240/486, 5-6=-240/486 **WEBS** 3-6=0/256, 3-5=-569/184

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-6-4 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 arip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



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Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:39 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-1DnOMzFBAp2lHN_R0KuzSyxqwbk9lx1_HsfbLuytESk -1-0-0 8-0-0 1-0-0

4.00 12 5 0-3-15 12 11 10 9 8

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.13 BC 0.05 WB 0.05	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 1 1 8	I/defI n/r n/r n/a	L/d 180 120 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-P						Weight: 38 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.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS

OTHERS 2x4 SP No.3

REACTIONS. All bearings 8-0-0. (lb) -Max Horz 2=112(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 8, 2, 9, 10, 11, 12

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9, 10, 11 except 12=270(LC 23)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-10-4 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
- 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2, 9, 10, 11, 12.



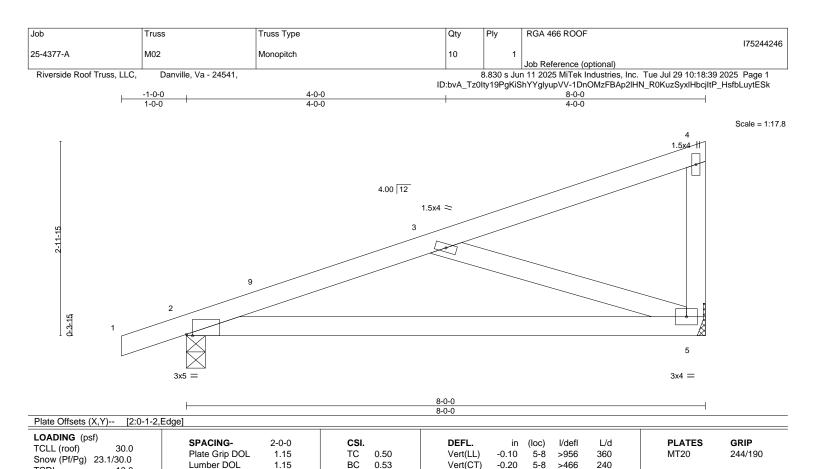
July 31,2025

Scale = 1:17.4

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)





LUMBER-

TCDL

BCLL

BCDL

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

10.0

10.0

0.0

BOT CHORD WFBS 2x4 SP No.3 BRACING-

Horz(CT)

WB

Matrix-MP

0.29

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

n/a

n/a

except end verticals.

0.01

BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical

Max Horz 2=112(LC 15)

Max Uplift 2=-82(LC 12), 5=-57(LC 16) Max Grav 2=492(LC 23), 5=448(LC 23)

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

Rep Stress Incr

Code IRC2021/TPI2014

YES

TOP CHORD 2-3=-784/294 **BOT CHORD** 2-5=-376/740 WFBS 3-5=-775/360

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-10-4 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 arip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



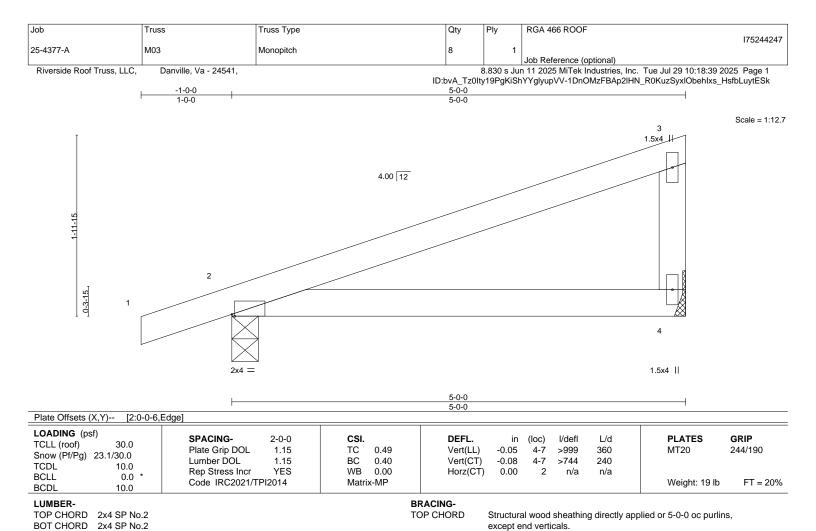
Weight: 36 lb

FT = 20%

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BOT CHORD

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

REACTIONS.

WFBS

(size) 4=Mechanical, 2=0-3-8

2x4 SP No.3

Max Horz 2=72(LC 15) Max Uplift 4=-34(LC 16), 2=-67(LC 12)

Max Grav 4=271(LC 23), 2=387(LC 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-10-4 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
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.





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 RGA 466 ROOF 175244248 M04 Monopitch 4 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:40 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-VPLmZJFpx7AcuXYda2PC?9Usp?xo1O67WWP8tKytESj -1-0-0 6-0-0 1-0-0 Scale = 1:15.1 1.5x4 || 3 4.00 12 0-3-15 1.5x4 II 6-0-0 6-0-0 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in I/defI L/d **PLATES** GRIP (loc) TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.10 4-7 >702 360 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.60 Vert(CT) -0.17 >418 240 TCDL 10.0 WB 0.00 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-MP Weight: 23 lb FT = 20% BCDL 10.0 **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

WFBS

2x4 SP No.3

(size) 4=Mechanical, 2=0-3-8 Max Horz 2=85(LC 15)

2x4 SP No.2

2x4 SP No.2

Max Uplift 4=-42(LC 16), 2=-72(LC 12) Max Grav 4=331(LC 23), 2=443(LC 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.
- $2) \ \ Wind: ASCE 7-16; \ \ Vult=130mph (3-second \ gust) \ \ Vasd=103mph; \ \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Exp \ B; \ Exp$ MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 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
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



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

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

except end verticals.

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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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 RGA 466 ROOF 175244249 M05 **GABLE** 25-4377-A Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:41 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-zcv9nfGRiQITWh7q8lwRYN11XPKhmoyHlA8iQnytESi

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

14-15, 13-16, 12-17

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

except end verticals.

1 Row at midpt

14-10-8 14-10-8

Scale = 1:61.6

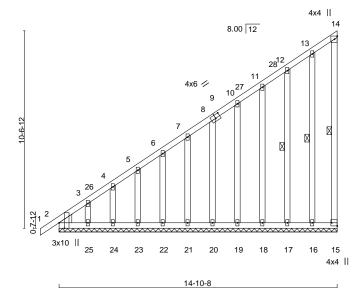


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [9:0-3-0,0-2-4], [15:Edge,0-3-8]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.77 BC 0.37 WB 0.15	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 180 Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 15 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-S		Weight: 143 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

14-10-8

LUMBER-

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

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

WEDGE Left: 2x6 SP No.2

REACTIONS. All bearings 14-10-8.

Max Horz 2=369(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 2, 22,

23 24 25

Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22,

23, 24, 25 except 2=271(LC 31)

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

TOP CHORD $2 - 3 = -722/483, \ 3 - 4 = -600/406, \ 4 - 5 = -550/383, \ 5 - 6 = -504/360, \ 6 - 7 = -456/337, \ 7 - 8 = -409/314, \ 7 -$

8-10=-361/291, 10-11=-314/268, 11-12=-268/247

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 14-8-12 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 16, 17, 18, 19, 20, 21, 2, 22, 23, 24, 25.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.





Job Truss Truss Type Qty Ply RGA 466 ROOF 175244250 25-4377-A M06 Monopitch 10 Job Reference (optional)

Riverside Roof Truss, LLC, Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:41 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-zcv9nfGRiQITWh7q8lwRYN1?fPGjmlYHlA8iQnytESi

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

5-6, 3-6

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

except end verticals.

1 Row at midpt

14-10-8

Scale = 1:60.2 3x4 || 5 8.00 12

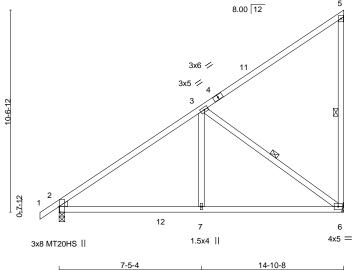


Plate Offsets (X,Y)	[2:0-3-8,Eage]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.89 BC 0.62	DEFL. Vert(LL) -0.0 Vert(CT) -0.1		l/defl >999 >999	L/d 360 240	PLATES MT20 MT20HS	GRIP 244/190 187/143
TCDL 10.0 BCLL 0.0 *	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.37 Matrix-MS	Horz(CT) 0.0	02 2	n/a	n/a	Weight: 87 lb	FT = 20%
BCDL 10.0	Code INC2021/1712014	IVIALI IX-IVIO					Weight. 67 ib	$\Gamma I = 20 / 6$

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP No.1

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

5-6: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 6=Mechanical, 2=0-3-8

Max Horz 2=370(LC 15)

Max Uplift 6=-158(LC 16), 2=-48(LC 16) Max Grav 6=879(LC 30), 2=847(LC 31)

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

TOP CHORD 2-3=-976/127, 3-5=-294/204, 5-6=-316/159

BOT CHORD 2-7=-272/773, 6-7=-272/773 **WEBS** 3-7=0/376, 3-6=-897/236

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=130 mph \ (3-second \ gust) \ \ Vasd=103 mph; \ TCDL=6.0 psf; \ BCDL=6.0 psf; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ H=25 ft; \$ MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-8-12 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=158.



July 31,2025

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

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

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



Job Truss Truss Type Qty Ply RGA 466 ROOF 175244251 25-4377-A M07 Monopitch 8 Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:42 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-RoSX_?H3TkQK8ri0iTRg4aZAPocyVCoQzquFyDytESh

14-10-8 Scale = 1:60.2 3x4 ||

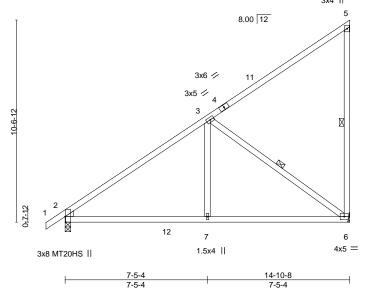


Plate Offsets (X,Y) [2:0-3-8,	Edge]	7 0 4	104	
LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	CSI. TC 0.89 BC 0.62 WB 0.37 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.08 7-10 >999 360 Vert(CT) -0.14 6-7 >999 240 Horz(CT) 0.02 2 n/a n/a	PLATES GRIP MT20 244/190 MT20HS 187/143 Weight: 87 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x4 SP No.1

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

5-6: 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 6=Mechanical, 2=0-3-8

Max Horz 2=370(LC 15)

Max Uplift 6=-158(LC 16), 2=-48(LC 16) Max Grav 6=879(LC 30), 2=847(LC 31)

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

TOP CHORD 2-3=-976/127, 3-5=-294/204, 5-6=-316/159

BOT CHORD 2-7=-272/773, 6-7=-272/773 **WEBS** 3-7=0/376, 3-6=-897/236

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- $2) \ \ Wind: ASCE \ 7-16; \ Vult=130 mph \ (3-second \ gust) \ \ Vasd=103 mph; \ TCDL=6.0 psf; \ BCDL=6.0 psf; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ H=25 ft; \ Cat. \ H=25 ft; \$ MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-8-12 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=158.



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

5-6, 3-6

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

except end verticals.

1 Row at midpt

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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244252 M08 **GABLE** 25-4377-A Job Reference (optional)

Riverside Roof Truss, LLC, Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:42 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-RoSX_?H3TkQK8ri0iTRg4aZ92of7VEfQzquFyDytESh

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

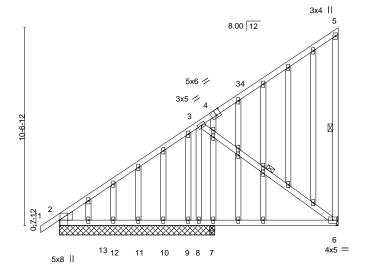
5-6, 3-6

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

except end verticals.

1 Row at midpt

Scale = 1:61.5



14-10-8 6-7-0

Plate Offsets (X,Y)	[2:0-3-8,Edge], [4:0-3-0,Edge]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.91 BC 0.42 WB 0.25	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 6-7 >999 360 Vert(CT) -0.09 6-7 >866 240 Horz(CT) 0.00 6 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	11012(C1) 0.00 0 11/4 11/4	Weight: 159 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No.2 *Except*

1-4: 2x4 SP No.1

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

5-6: 2x4 SP No.2

OTHERS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

REACTIONS. All bearings 8-3-8 except (jt=length) 6=Mechanical.

Max Horz 2=370(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12 except 8=-294(LC 25),

6=-132(LC 16), 13=-205(LC 16)

Max Grav All reactions 250 lb or less at joint(s) 7, 9, 10, 11, 12, 2 except

8=276(LC 23), 6=470(LC 30), 2=331(LC 31), 7=499(LC 27), 13=369(LC 30)

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

TOP CHORD 2-3=-410/214, 3-5=-292/206, 5-6=-317/162

BOT CHORD 2-13=-238/266, 12-13=-238/266, 11-12=-238/266, 10-11=-238/266, 9-10=-238/266,

8-9=-238/266, 7-8=-238/266, 6-7=-238/266

WEBS 3-8=-459/131

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-8-12 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
- 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.



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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July 31,2025

Job	Truss	Truss Type	Qty	Ply	RGA 466 ROOF
					175244252
25-4377-A	M08	GABLE	1	1	
					Llob Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:43 2025 Page 2 ID:bvA_Tz0lty19PgKiShYYglyupVV-v_0vCLlhE2YBl?HCFAyvdo6KoC?MEhvaCUdoUfytESg

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 12, 2 except (jt=lb) 8=294, 6=132, 13=205.



July 31,2025



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply RGA 466 ROOF 175244253 T01 25-4377-A Common Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:43 2025 Page 1

ID:bvA_Tz0Ity19PgKiShYYglyupVV-v_0vCLIhE2YBI?HCFAyvdo6MQCysEfqaCUdoUfytESg 10-10-4 16-3-6 21-8-8 22-8-8 1-0-0 5-5-2 5-5-2 5-5-2

> Scale = 1:59.1 4x5 ||

> > Structural wood sheathing directly applied or 2-9-12 oc purlins.

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

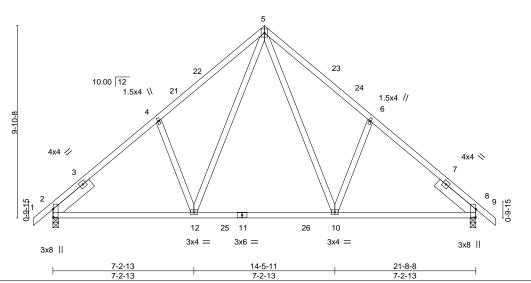


Plate Offsets (X,Y)-- [2:0-4-14,0-0-3], [8:0-4-14,0-0-3]

CADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.81 BC 0.58 WB 0.32	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 10-12 >999 360 Vert(CT) -0.19 10-12 >999 240 Horz(CT) 0.03 8 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 *	Code IRC2021/TPI2014	Matrix-MS		Weight: 135 lb FT = 20%
BCDL 10.0				•

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 2-6-0, Right 2x6 SP No.2 2-6-0

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=232(LC 15)

Max Uplift 2=-81(LC 16), 8=-81(LC 17) Max Grav 2=1211(LC 30), 8=1211(LC 31)

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

TOP CHORD 2-4=-1306/126, 4-5=-1253/224, 5-6=-1253/225, 6-8=-1306/126

BOT CHORD 2-12=-115/1093, 10-12=0/735, 8-10=-11/977

WEBS 5-10=-161/661, 6-10=-356/243, 5-12=-161/661, 4-12=-356/243

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-10-4, Exterior(2R) 10-10-4 to 13-10-4, Interior(1) 13-10-4 to 22-8-8 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



July 31,2025

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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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 RGA 466 ROOF 175244254 T01GE **GABLE** 25-4377-A Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:44 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-NBaHPhJJ_Lg2N8sPpuT89?fh8cQmz9djR8NM06ytESf 21-8-8

10-10-4 10-10-4 10-10-4

4x4 =

Scale = 1:59.9

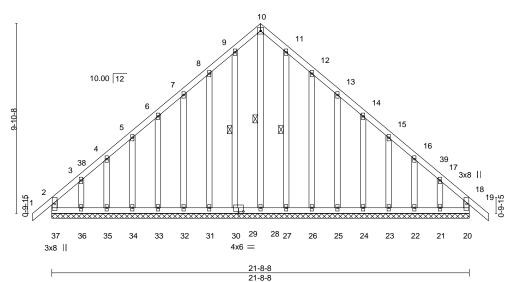


Plate Offsets (X,Y)-- [29:0-3-0,0-1-4]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.09 WB 0.16	DEFL. in (loc) l/defl L/ Vert(LL) -0.01 19 n/r 12 Vert(CT) -0.01 19 n/r 12 Horz(CT) 0.01 20 n/a n/	MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-R		Weight: 195 lb FT = 20%

LUMBER-TOP CHORD

2x4 SP No 2

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

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

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 1 Row at midpt 10-28, 9-30, 11-27

All bearings 21-8-8. REACTIONS.

(lb) -Max Horz 37=-253(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 20, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except

37=-120(LC 12), 36=-153(LC 16), 21=-139(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 20, 28, 30, 31, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22, 21 except 37=258(LC 31)

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

TOP CHORD 9-10=-149/275, 10-11=-149/275

WEBS 10-28=-279/113

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 10-10-4, Corner(3R) 10-10-4 to 13-10-4. Exterior(2N) 13-10-4 to 22-8-8 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) 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 30, 31, 32, 33, 34, 35, 27, 26, 25, 24, 23, 22 except (jt=lb) 37=120, 36=153, 21=139.



July 31,2025



Job Truss Truss Type Qty Ply RGA 466 ROOF 175244255 T01SGE **GABLE** 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:45 2025 Page 1

ID:bvA_Tz0lty19PgKiShYYglyupVV-rN8fd1Jxlfou?IRbNb?NiDBli0aFiWitfo6vZYytESe 11-0-5 16-6-8 21-10-11 27-2-13 5-6-3 5-6-3 5-4-3

Scale = 1:70.9

Structural wood sheathing directly applied or 4-1-9 oc purlins.

5-18, 7-16

ORTH

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

1 Row at midpt

4x4 = 8.00 12 6 52 3x4 = 51 3x4 / 53 ^{3x4} × 3x6 🖊 50 4x6 < 4x4 < 10 **B**XXX 54 19 56 17 57 18 3x10 || 3x4 =3x4 = 3x6 =3x6 = 16 15 14 13 12 3x8 = 5x8 II

16-6-8 25-3-0 32-7-0 8-1-12 8-4-12 7-10-12 7-4-0 Plate Offsets (X.Y)-- [2:0-3-8.Edge], [7:0-2-0.0-0-1], [8:0-3-0.0-2-4], [11:0-7-9.Edge]

1 1010 0110010 (71) [210 0 0]	,age_j, [e e,e e .], [e.e e e,e], [.	···o · o;=agoj		
LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.63 BC 0.84 WB 0.55	DEFL. in (loc) l/defl L/d Vert(LL) -0.17 18-20 >999 360 Vert(CT) -0.27 18-20 >999 240 Horz(CT) 0.04 16 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	, ,	Weight: 296 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

OTHERS 2x4 SP No.3 WEDGE

Left: 2x6 SP No.2

SLIDER Right 2x6 SP No.2 2-6-0

REACTIONS. All bearings 7-7-8 except (jt=length) 2=0-3-8.

Max Horz 2=268(LC 13) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 13 except 2=-113(LC 16),

11=-140(LC 38), 15=-377(LC 25), 12=-120(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 11, 14, 13, 11 except 16=2137(LC

30), 16=1606(LC 1), 2=1372(LC 30), 12=325(LC 31)

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

2-3=-1777/155, 3-5=-1592/190, 5-6=-885/203, 6-7=-875/202, 7-9=-63/357,

9-11=-109/253

BOT CHORD 2-20=-228/1575, 18-20=-104/1162, 16-18=0/390

WEBS 3-20=-336/182, 5-20=-58/632, 5-18=-770/240, 6-18=-110/520, 7-18=-22/571,

7-16=-1468/117. 9-16=-350/176

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-3-2, Interior(1) 2-3-2 to 16-6-8, Exterior(2R) 16-6-8 to 19-9-10, Interior(1) 19-9-10 to 32-7-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable studs spaced at 1-4-0 oc.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * 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.

July 31,2025



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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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	RGA 466 ROOF
					175244255
25-4377-A	T01SGE	GABLE	1	1	
					Lob Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:45 2025 Page 2 ID:bvA_Tz0lty19PgKiShYYglyupVV-rN8fd1Jxlfou?IRbNb?NiDBli0aFiWitfo6vZYytESe

NOTES-

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 13 except (jt=lb) 2=113, 11=140, 15=377, 12=120, 11=140.

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818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply RGA 466 ROOF 175244256 T02 4 25-4377-A Common Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:46 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-KZi1qNKaWywlcS0nxlWcFQkteQ_RR0W0uSsT5_ytESd 10-10-4 16-3-6 21-8-8 5-5-2 5-5-2 5-5-2 Scale = 1:59.1 4x5 || 5 10.00 12 23 1.5x4 \\ 1.5x4 // 4x4 // 4x4 💉 0-9-15 24 10 25 3x4 = 3x6 =3x4 =3x8 || 3x8 || 7-2-13 14-5-11 21-8-8

Plate Offsets (X,Y)-- [2:0-4-14,0-0-3], [8:0-4-14,0-0-3]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.81 BC 0.59 WB 0.33	DEFL. in (loc) l/defl L/d Vert(LL) -0.13 9-11 >999 360 Vert(CT) -0.19 9-11 >999 240 Horz(CT) 0.03 8 n/a n/a	PLATES GRIP MT20 244/190
	Code IRC2021/TPI2014	Matrix-MS		Weight: 133 lb FT = 20%
BCDL 10.0				· ·

BRACING-

TOP CHORD

BOT CHORD

7-2-13

7-2-13

Structural wood sheathing directly applied or 2-8-10 oc purlins.

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

LUMBER-

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

SLIDER Left 2x6 SP No.2 2-6-0, Right 2x6 SP No.2 2-6-0

REACTIONS.

(size) 8=0-3-8, 2=0-3-8 Max Horz 2=225(LC 13) Max Uplift 8=-62(LC 17), 2=-81(LC 16) Max Grav 8=1138(LC 31), 2=1212(LC 30)

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

TOP CHORD 2-4=-1308/126, 4-5=-1254/224, 5-6=-1259/226, 6-8=-1310/128

BOT CHORD 2-11=-128/1084, 9-11=0/726, 8-9=-24/972

WEBS 5-9=-162/669, 6-9=-361/244, 5-11=-161/661, 4-11=-356/243

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-10-4, Exterior(2R) 10-10-4 to 13-10-4, Interior(1) 13-10-4 to 21-8-8 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

7-2-13

- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.



July 31,2025

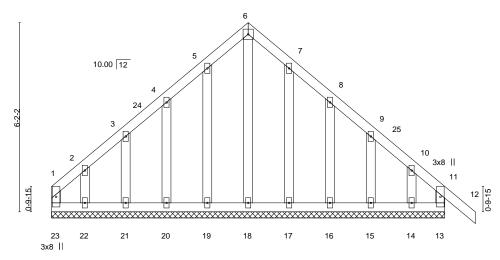
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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244257 T02GE **GABLE** 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:47 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-omGQ1iLCHG2cEcbzU01rneHCOpS0AWg976b0dRytESc 6-5-0 6-5-0 12-10-0 13-10-0 6-5-0 1-0-0 Scale = 1:37.6 4x4 =



LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.17 BC 0.05 WB 0.14	DEFL. ir Vert(LL) -0.01 Vert(CT) -0.01 Horz(CT) 0.00	12 12	l/defl n/r n/r n/a	L/d 180 120 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-R					Weight: 90 lb	FT = 20%

12-10-0 12-10-0

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.3 BOT CHORD WFBS Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 12-10-0.

2x4 SP No.3

(lb) -Max Horz 23=-159(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 23, 13, 19, 20, 21, 17, 16, 15, 14 except 22=-114(LC 16)

Max Grav All reactions 250 lb or less at joint(s) 23, 13, 18, 19, 20, 21, 22, 17, 16, 15, 14

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 6-5-0, Corner(3R) 6-5-0 to 9-5-0, Exterior(2N) 9-5-0 to 13-10-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 13, 19, 20, 21, 17, 16, 15, 14 except (jt=lb) 22=114.



July 31,2025

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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244258 T03 25-4377-A Common Job Reference (optional)

6-5-0 6-5-0

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:47 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-omGQ1iLCHG2cEcbzU01rneH1vpIEAWV976b0dRytESc 12-10-0 13-10-0

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

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

6-5-0 1-0-0

Scale = 1:37.6

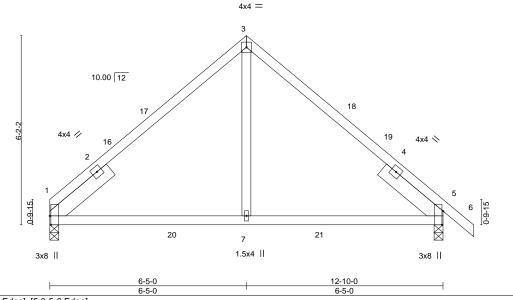


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [5:0-5-6,Edge]

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.84 BC 0.68 WB 0.15	DEFL. in (loc) l/defl L/d Vert(LL) -0.10 7-10 >999 360 Vert(CT) -0.14 7-10 >999 240 Horz(CT) 0.05 1 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	11012(01) 0.00 1 11/4 11/4	Weight: 66 lb FT = 20%

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 2-6-0, Right 2x6 SP No.2 2-6-0

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=-139(LC 14) Max Uplift 1=-35(LC 16), 5=-55(LC 17)

Max Grav 1=688(LC 30), 5=763(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-663/151, 3-5=-665/150 **BOT CHORD** 1-7=0/502. 5-7=0/502

WEBS 3-7=-1/366

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-5-0, Exterior(2R) 6-5-0 to 9-5-0, Interior(1) 9-5-0 to 13-10-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



July 31,2025

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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244259 T03GE **GABLE** 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:48 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-GyqoF2Mq2aATsmAA2jY4KrpONDojvzLJMmLZ9tytESb 25-3-0 26-3-0 1-0-0 12-7-8 Scale = 1:55.2 4x4 =12 8.00 12

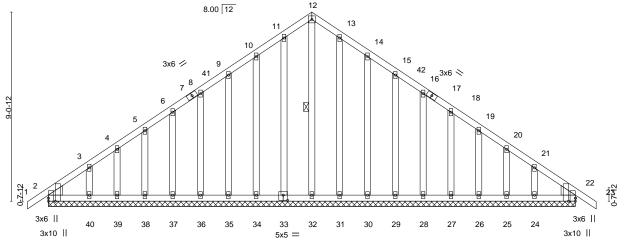


Plate Offsets (X,Y)--[2:Edge,0-0-1], [2:0-1-12,Edge], [22:0-1-12,Edge], [22:Edge,0-0-1], [33:0-2-8,0-3-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) -0.00 23 n/r 180 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 BC 0.02 Vert(CT) -0.00 23 n/r 120 TCDL 10.0 WB Rep Stress Incr YES 0.18 Horz(CT) 0.01 22 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-S Weight: 210 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WFBS

25-3-0 25-3-0

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 1 **OTHERS** 2x4 SP No 3

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS. All bearings 25-3-0.

Max Horz 2=213(LC 15) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 2, 22, 29, 28, 27, 26,

25. 24

Max Grav All reactions 250 lb or less at joint(s) 32, 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 2, 22, 29, 28, 27, 26, 25, 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 1-11-8, Exterior(2N) 1-11-8 to 12-7-8, Corner(3R) 12-7-8 to 15-7-8 Exterior(2N) 15-7-8 to 26-3-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing
- 9) Gable studs spaced at 1-4-0 oc.
- 10) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 34, 35, 36, 37, 38, 39, 40, 31, 30, 2, 22, 29, 28, 27, 26, 25, 24.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 22.



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

12-32

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

1 Row at midpt



Job Truss Truss Type Qty Ply RGA 466 ROOF 175244260 T04 4 25-4377-A Common Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:49 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-k8OASOMSptIKTwlMcR3Js3MO0dvleKVSaQ47iJytESa 1<u>1-0-5</u> 16-6-8 21-10-11 27-2-13 32-7-0 5-6-3 5-6-3 5-4-3 5-4-3 Scale = 1:68.9 4x4 =8.00 12 6 3x4 🖊 25 27 3x4 ≫ 3x6 / 7 3x6 💸 5 1.5x4 \\ 1.5x4 // 3 4x4 <> 10 28 15 13 3112 14 3x4 = 3x6 =3x6 = 3x4 =4x10 || 7x8 || 3x8 = 8-1-12 16-6-8 32-7-0 8-1-12 8-4-12 7-10-12 8-1-12 Plate Offsets (X,Y)--[2:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.25 14-16 >999 360 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 BC 1.00 Vert(CT) -0.41 14-16 >959 240 TCDL 10.0 WB Rep Stress Incr YES 0.57 Horz(CT) 0.11 11 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-MS Weight: 197 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

2x4 SP No.2 *Except* TOP CHORD 8-11: 2x4 SP No.1

2x4 SP No.1 *Except* **BOT CHORD**

13-15: 2x4 SP No.2

WEBS 2x4 SP No.3

WEDGE

Left: 2x6 SP No.2

SLIDER Right 2x6 SP No.2 2-6-0

REACTIONS. (size) 2=0-3-8. 11=0-3-8

Max Horz 2=268(I C 13)

Max Uplift 2=-132(LC 16), 11=-109(LC 17)

Max Grav 2=1817(LC 30), 11=1739(LC 31)

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

TOP CHORD 2-3=-2522/187, 3-5=-2337/222, 5-6=-1659/240, 6-7=-1658/242, 7-9=-2164/213,

9-11=-2314/180 **BOT CHORD**

2-16=-254/2182, 14-16=-133/1800, 12-14=-26/1644, 11-12=-75/1810 **WEBS**

3-16=-319/181, 5-16=-54/589, 5-14=-752/238, 6-14=-148/1386, 7-14=-692/231,

7-12=-51/447

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-3-2, Interior(1) 2-3-2 to 16-6-8, Exterior(2R) 16-6-8 to 19-9-10, Interior(1) 19-9-10 to 32-7-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=132, 11=109.



Structural wood sheathing directly applied or 2-2-10 oc purlins.

5-14, 7-14

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

1 Row at midpt

July 31,2025



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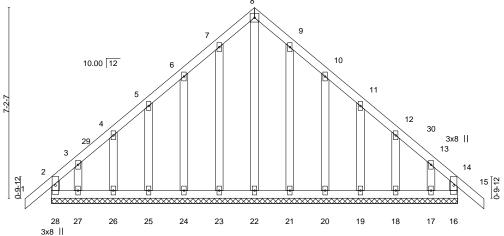


Job Truss Truss Type Qty Ply RGA 466 ROOF 175244261 T04GE **GABLE** 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:50 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-CLxYgkN4aBQB53JYA8aZPGvji1TYNsScp4qgElytESZ

> Scale = 1:43.5 4x4 =

7-8-0 15-4-0 16-4-0 1-0-0 7-8-0 7-8-0

8



15-4-0 15-4-0

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.16 BC 0.07 WB 0.20	Vert(CT) -0.01	c) I/defl L/d 15 n/r 180 15 n/r 120 16 n/a n/a	MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-R	, ,		Weight: 117 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.3 **BOT CHORD** WFBS Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-4-0.

2x4 SP No.3

(lb) -Max Horz 28=-190(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 16, 23, 24, 25, 26, 21, 20, 19, 18 except 28=-108(LC 12), 27=-127(LC 16), 17=-114(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 22, 23, 24, 25, 26, 27, 21, 20, 19, 18, 17

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-8-0, Corner(3R) 7-8-0 to 10-8-0, Exterior(2N) 10-8-0 to 16-4-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 1-4-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * 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.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 23, 24, 25, 26, 21, 20, 19, 18 except (jt=lb) 28=108, 27=127, 17=114.



July 31,2025

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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244262 T05 6 25-4377-A Common Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:51 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-gXVwt4OiLVY2jDuljs5oyURi_Rez6l4l2kZEmCytESY 18-11-4 6-3-12 6-3-12 6-3-12 Scale = 1:53.6 4x5 || 5 8.00 12 20 3x6 / 3x6 < 1.5x4 \\ 6 1.5x4 // 3 11 24 12 23 10 3x4 = 3x6 = 3x4 = 5x8 || 5x8 || 16-10-0 25-3-0 8-5-0 8-5-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [8:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.83 Vert(LL) -0.22 10-12 >999 360 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 BC 0.82 Vert(CT) -0.33 10-12 >915 240 TCDL 10.0 WB Rep Stress Incr YES 0.30 Horz(CT) 0.05 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-MS Weight: 132 lb FT = 20% BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.1 *Except* TOP CHORD 1-4,6-9: 2x4 SP No.2

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

WEDGE

Left: 2x6 SP No.2 , Right: 2x6 SP No.2

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

Max Horz 2=213(LC 15)

Max Uplift 2=-106(LC 16), 8=-106(LC 17) Max Grav 2=1411(LC 30), 8=1411(LC 31)

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

TOP CHORD 2-3=-1829/147, 3-5=-1679/219, 5-7=-1679/219, 7-8=-1829/147

BOT CHORD 2-12=-152/1575, 10-12=0/1035, 8-10=-25/1432

WEBS $3-12=-450/235,\ 5-12=-129/806,\ 5-10=-129/806,\ 7-10=-450/235$

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 12-7-8, Exterior(2R) 12-7-8 to 15-7-8, Interior(1) 15-7-8 to 26-3-0 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=106, 8=106.

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

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

July 31,2025



Job Truss Truss Type Qty Ply RGA 466 ROOF 175244263 T06 **GABLE** 25-4377-A Job Reference (optional)

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:51 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-gXVwt4OiLVY2jDuljs5oyURiZRmb6Kwl2kZEmCytESY

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

Rigid ceiling directly applied or 9-11-9 oc bracing. 1-20

except end verticals.

1 Row at midpt

11-11-8 12-11-8 1-0-0 11-11-8

Scale = 1:49.6

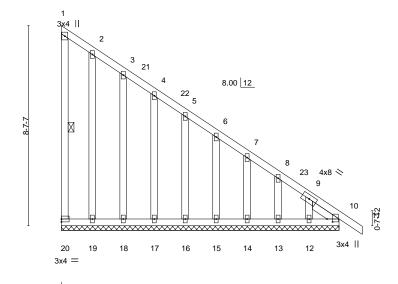


Plate Offsets (X,Y) [1	0:0-1-8,0-2-14
------------------------	----------------

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.86 BC 0.27 WB 0.19	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 11 n/r 180 Vert(CT) -0.00 11 n/r 120 Horz(CT) 0.01 10 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-S	1.6.2(6.1) 6.6.1 10 1.00 1.00	Weight: 104 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

OTHERS 2x4 SP No.3

SLIDER Right 2x4 SP No.3 1-4-9

REACTIONS. All bearings 11-11-8.

(lb) - Max Horz 20=-299(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 20, 10, 19, 18, 17, 16, 15, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 20, 10, 19, 18, 17, 16, 15, 14, 13, 12

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

TOP CHORD $3-4=-260/226,\ 4-5=-312/250,\ 5-6=-364/275,\ 6-7=-416/301,\ 7-8=-467/326,\ 8-9=-522/352,$

9-10=-647/433

BOT CHORD 19-20=-319/523, 18-19=-319/523, 17-18=-319/523, 16-17=-319/523, 15-16=-319/523,

14-15=-319/523, 13-14=-319/523, 12-13=-319/523, 10-12=-319/523

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 12-11-8 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) 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 1-4-0 oc.
- 10) 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 10, 19, 18, 17, 16, 15, 14, 13, 12.





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	RGA 466 ROOF	
					17524426	i4
25-4377-A	T07	Roof Special	10	1		
					Job Reference (optional)	

Riverside Roof Truss, LLC,

Danville, Va - 24541,

8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:52 2025 Page 1

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

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

except end verticals.

1 Row at midpt

ID:bvA_Tz0lty19PgKiShYYglyupVV-8j3J5QPK6ohvKNTxHZd1Uh_ulq5crgquGOJnJeytESX 11-11-8 12-11-8 5-11-12 5-11-12 5-11-12

Scale = 1:48.9

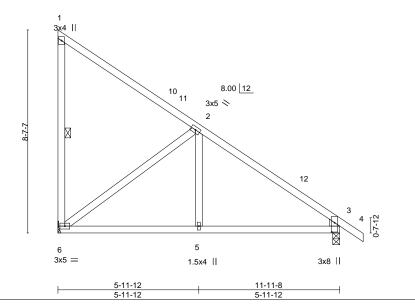


Plate Offsets (X	,Y) [[3:0-4-12,0-1-8	1
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LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.80 BC 0.35 WB 0.59	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 5-6 >999 360 Vert(CT) -0.06 5-6 >999 240 Horz(CT) 0.01 3 n/a n/a	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-MS	11012(01) 0.01 3 11/4	Weight: 70 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WFBS WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 6=Mechanical, 3=0-3-8

Max Horz 6=-301(LC 14)

Max Uplift 6=-83(LC 12), 3=-37(LC 17) Max Grav 6=664(LC 24), 3=674(LC 2)

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

1-6=-263/144, 2-3=-687/108 TOP CHORD **BOT CHORD** 5-6=0/496, 3-5=0/496 WEBS 2-6=-595/167, 2-5=0/267

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 12-11-8 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.





Job Truss Truss Type Qty Ply RGA 466 ROOF 175244265 T08 **GABLE** 2 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:52 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-8j3J5QPK6ohvKNTxHZd1Uh_2aq9groruGOJnJeytESX 5-8-0 8-7-0 Scale = 1:36.6 4x4 = 5 8.00 12 6 3 8 27 5-9-7 10 -5-2 12 16 24 23 22 21 20 17 25 19 18 1-7-0 3x6 = 151-0-13 8.00 12 14 14-3-0 11-7-0 11-7-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in I/defl I/d **PLATES** GRIP (loc) TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 BC 0.09 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.08 Horz(CT) 0.00 13 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-R Weight: 87 lb FT = 20% BCDL 10.0 LUMBER-BRACING-

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

REACTIONS. All bearings 14-3-0.

(lb) -Max Horz 25=-163(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 25, 16, 22, 23, 24, 20, 19, 18, 17, 15 except 13=-125(LC 15),

14=-193(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 25, 13, 16, 21, 22, 23, 24, 20, 19, 18, 17, 15, 14

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-1-12 to 3-0-0, Exterior(2N) 3-0-0 to 5-8-0, Corner(3R) 5-8-0 to 8-8-0, Exterior(2N) 8-8-0 to 14-1-4 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
- 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 9) Gable studs spaced at 1-4-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) * 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 16, 22, 23, 24, 20, 19, 18, 17, 15 except (jt=lb) 13=125, 14=193.
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 25, 16, 21, 22, 23, 24, 20, 19, 18, 17, 15, 14



July 31,2025

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

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

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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244266 T09 18 25-4377-A Roof Special Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:53 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-cwdhlmQzt6pmyX27rH8G1vX9aENqa7A2V22Kr4ytESW 5-8-0 4-8-0 11-7-0 14-3-0 4-0-0 1-11-0 2-8-0 Scale = 1:40.4 4x5 || 3 8.00 12 13 1.5x4 || 1.5x4 || 4 14 3x5 // 3x5 <> 5 3x6 <> 6 10 9 8 1-7-0 1-0-13 1.5x4 || 6x8 = 5x5 = 3x10 = 8.00 12 1.5x4 || 1-0-0 9-8-0 11-7-0 14-3-0 8-8-0 1-11-0 2-8-0 LOADING (psf) CSI. SPACING-2-0-0 DEFL in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.44 Vert(LL) -0.11 9-10 >999 360 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.60 Vert(CT) -0.239-10 >736 240 TCDL 10.0 WB Rep Stress Incr YES 0.59 Horz(CT) 0.06 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-MS Weight: 84 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

REACTIONS.

BCDL

WFBS

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

10.0

2x4 SP No.3 (size) 7=0-3-8, 11=0-3-8

Max Horz 11=-163(LC 12) Max Uplift 7=-57(LC 17), 11=-35(LC 16) Max Grav 7=698(LC 2), 11=698(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-477/20, 2-3=-731/163, 3-4=-1401/228, 4-5=-1262/134, 5-6=-1808/212, TOP CHORD 6-7=-696/102 1-11=-823/0

BOT CHORD 9-10=0/477, 8-9=-152/1388 WFBS

2-10=-546/221, 3-9=-124/972, 4-9=-397/143, 5-9=-418/110, 5-8=-62/396,

6-8=-143/1416, 1-10=-46/835

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 5-8-0, Exterior(2R) 5-8-0 to 8-8-0, Interior(1) 8-8-0 to 14-1-4 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
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 11.



Structural wood sheathing directly applied or 4-2-1 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals

6-0-0 oc bracing: 10-11.

July 31,2025

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 RGA 466 ROOF 175244267 V01 Valley 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:54 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-56B3V6QbeQxdahdKP_fVZ63KzeptJi6BkiouNXytESV Scale = 1:19.0 5x4 || 4.00 | 12 6 1.5x4 || 2 5 1.5x4 II 1.5x4 II 2x4 >

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.40 BC 0.17	Vert(CT)	in (loc) n/a - n/a -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2021/TPI2014	WB 0.09 Matrix-S	Horz(CT) 0.	0.00 3	n/a	n/a	Weight: 33 lb	FT = 20%

LUMBER-

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

2x4 SP No.3 **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. (size) 5=9-4-8, 3=9-4-8, 4=9-4-8

Max Horz 5=-112(LC 12)

Max Uplift 5=-15(LC 13), 3=-8(LC 17), 4=-86(LC 13) Max Grav 5=167(LC 23), 3=181(LC 2), 4=579(LC 23)

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

WEBS 2-4=-467/211

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 8-5-15 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) 5, 3, 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	RGA 46	66 ROOF			175244268
25-4377-A	V02	Valley		1	1					1/5244268
20 4077 70	V 02	Valley		.		Job Ref	erence (o _l	otional)		
Riverside Roof Truss, LLC,	Danville, Va - 24541,								Tue Jul 29 10:18:54 20	
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	3									
	1.5x4			2x4 <	_					
	1.5x4			2,4 ~	·					
LOADING (==4)										
LOADING (psf) TCLL (roof) 30.0	SPACING-	2-0-0 CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL			Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL			Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr			Horz(CT)	0.00	2	n/a	n/a	M : 1 / 40 II	FT 000/
BCDL 10.0	Code IRC2021/	TPI2014 Matrix-	۲						Weight: 13 lb	FT = 20%

LUMBER-TOP CHORD BOT CHORD

WEBS

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

2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-4 oc purlins,

except end verticals.

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

REACTIONS. (size) 3=4-4-8, 2=4-4-8

Max Horz 3=-45(LC 12)

Max Uplift 3=-25(LC 17), 2=-18(LC 13) Max Grav 3=185(LC 23), 2=185(LC 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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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) 3, 2.





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

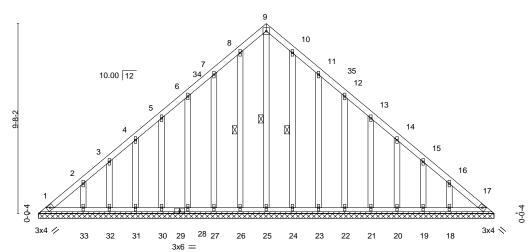
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job Truss Truss Type Qty Ply RGA 466 ROOF 175244269 V03 **GABLE** 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:55 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-ZIIRjSRDPj3UBrCWyhAk6Kcb12B628TLzMXRvzytESU 11-7-6

4x4 =

Scale = 1:58.7



23-2-11 23-2-11

LOADING (psf) TCLL (roof) 30.0 Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.06 BC 0.04 WB 0.15	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (I n/a n/a 0.01	loc) - - 17	I/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Code IRC2021/TPI2014	Matrix-S						Weight: 189 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD BOT CHORD WFBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 9-25, 8-26, 10-24 1 Row at midpt

REACTIONS. All bearings 23-2-11.

Max Horz 1=-219(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 26, 27, 28, 30, 31, 32, 33, 24, 23, 22, 21, 20, 19, 18 Max Grav All reactions 250 lb or less at joint(s) 1, 17, 25, 26, 27, 28, 30, 31, 32, 33, 24, 23, 22, 21, 20,

11-7-6

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

TOP CHORD 1-2=-258/181

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-7-6, Interior(1) 3-7-6 to 11-7-6, Exterior(2R) 11-7-6 to 14-7-6, Interior(1) 14-7-6 to 22-9-14 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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, 26, 27, 28, 30, 31, 32, 33, 24, 23, 22, 21, 20, 19, 18.



July 31,2025

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 RGA 466 ROOF 175244270 V04 Valley 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:56 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-1UJpwnSrA1BLp_niWPhzfX8hUSVHna5UB0H_SPytEST 10-0-2 10-0-2 10-0-2 Scale = 1:51.4 4x4 = 10.00 12 15 3 0-0-4 ' 3x4 // 3x4 N 13 12 10 11 3x6 20-0-5 20-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in I/defl I/d **PLATES** GRIP (loc) TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.26 Horz(CT) 0.00 n/a n/a

BCDL LUMBER-

BCLL

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 19-11-11.

0.0

10.0

Max Horz 1=-188(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-172(LC 16), 13=-122(LC 16), 9=-172(LC 17),

8=-122(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=415(LC 32), 11=536(LC 29), 13=375(LC 29), 9=536(LC 30), 8=375(LC 30)

Matrix-S

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

Code IRC2021/TPI2014

WEBS 3-11=-409/222, 2-13=-265/164, 5-9=-409/222, 6-8=-266/164

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 10-0-2, Exterior(2R) 10-0-2 to 13-0-2 , Interior(1) 13-0-2 to 19-7-7 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing
- 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=172, 13=122, 9=172, 8=122.



Weight: 95 lb

FT = 20%

July 31,2025

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 RGA 466 ROOF 175244271 V05 Valley 25-4377-A Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:56 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-1UJpwnSrA1BLp_niWPhzfX8hISVNnbRUB0H_SPytEST 8-4-15 16-9-14 8-4-15 8-4-15 Scale = 1:45.6 4x4 = 3 10.00 12 12 1.5x4 || 1.5x4 II 13 10 3x4 / 3x4 🚿 7 9 8 14 6 3x6 =1.5x4 || 1.5x4 1.5x4 || 16-9-14 16-9-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.35 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.17 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.17 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a

LUMBER-

BCLL

BCDL

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

BRACING-

Matrix-S

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 16-9-5.

Max Horz 1=-157(LC 14) (lb) -

0.0

10.0

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-187(LC 16), 6=-187(LC 17)

Code IRC2021/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=384(LC 32), 9=576(LC 29), 6=573(LC 30)

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

WEBS 2-9=-424/232, 4-6=-424/232

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-4-15, Exterior(2R) 8-4-15 to 11-4-15, Interior(1) 11-4-15 to 16-5-1 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=187. 6=187.



Weight: 75 lb

FT = 20%

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	RGA 4	66 ROOF			175244272
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			13-7-	3				0-0-	-5	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof) 30.0	Plate Grip DOI		TC 0.33	Vert(LL			n/a	999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0 TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT	ŕ) n/a	-	n/a	999		
BCLL 0.0	* Rep Stress Inc		WB 0.12	Horz(C	T) 0.00	5	n/a	n/a		
BCDL 10.0	Code IRC202	1/TPI2014	Matrix-S						Weight: 58 lb	FT = 20%

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 13-6-14.

(lb) - Max Horz 1=-125(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-155(LC 16), 6=-155(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=296(LC 2), 8=455(LC 22), 6=455(LC 23)

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

WEBS 2-8=-389/196, 4-6=-389/196

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-9-12, Exterior(2R) 6-9-12 to 9-9-12 , Interior(1) 9-9-12 to 13-2-11 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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 except (jt=lb) 8=155, 6=155.



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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244273 25-4377-A V07 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:57 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-VhsC87TTxLJBR8Mu46CCBlhovrqMW3leQf0Y_rytESS Scale = 1:26.8 4x5 = 2 10.00 12 3x4 // 3x4 📏 1.5x4 || 10-5-2 10-4-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.61 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.25 Vert(CT) n/a n/a 999 TCDL 10.0 WB Rep Stress Incr YES 0.10 Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-S Weight: 40 lb FT = 20% BCDL 10.0 LUMBER-BRACING-

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

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=10-4-8, 3=10-4-8, 4=10-4-8

Max Horz 1=94(LC 13)

Max Uplift 1=-29(LC 17), 3=-40(LC 17)

Max Grav 1=306(LC 22), 3=306(LC 23), 4=444(LC 2)

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

WEBS 2-4=-291/90

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-2-9, Exterior(2R) 5-2-9 to 8-2-9, Interior(1) 8-2-9 to 10-0-4 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
- 3) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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.





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 RGA 466 ROOF 175244274 25-4377-A V08 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:58 2025 Page 1 ID:bvA_Tz0lty19PgKiShYYglyupVV-ztQaLTT5heR22lx5eqjRkyE1yFCoFXvnfJm5WlytESR 3-7-6 Scale = 1:20.9 4x4 =2 10.00 12 0-0-4 0-0-4 2x4 // 2x4 🚿 1.5x4 II 7-2-11 7-2-6 LOADING (psf) **PLATES** SPACING-2-0-0 CSI. DEFL. in (loc) I/defl I/d GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.10 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.04 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-P Weight: 27 lb FT = 20% BCDL 10.0 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 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 **OTHERS**

REACTIONS. (size) 1=7-2-2, 3=7-2-2, 4=7-2-2

Max Horz 1=63(LC 15)

Max Uplift 1=-27(LC 17), 3=-35(LC 17)

Max Grav 1=222(LC 22), 3=222(LC 23), 4=265(LC 2)

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.
- $2) \ \ Wind: ASCE 7-16; \ \ Vult=130mph (3-second \ gust) \ \ Vasd=103mph; \ \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ H$ MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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.



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Job Truss Truss Type Qty Ply RGA 466 ROOF 175244275 25-4377-A V09 Valley Job Reference (optional) Riverside Roof Truss, LLC, Danville, Va - 24541, 8.830 s Jun 11 2025 MiTek Industries, Inc. Tue Jul 29 10:18:58 2025 Page 1 ID:bvA_Tz0Ity19PgKiShYYglyupVV-ztQaLTT5heR22Ix5eqjRkyE5AFD0FXHnfJm5WlytESR 2-0-2 4-0-5 2-0-2 2-0-2 Scale = 1:11.1 4x4 = 2 10.00 12 3 0-0-4 0-0-4 4 2x4 // 1.5x4 II 2x4 📏 4-0-5 4-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP TCLL (roof) 30.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a n/a 999 MT20 244/190 Snow (Pf/Pg) 23.1/30.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a n/a 999 TCDL 10.0 WB 0.02 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a **BCLL** 0.0 Code IRC2021/TPI2014 Matrix-P Weight: 14 lb FT = 20% BCDL 10.0 LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-0-5 oc purlins.

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

BOT CHORD

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

REACTIONS. (size) 1=3-11-11, 3=3-11-11, 4=3-11-11

Max Horz 1=31(LC 13)

Max Uplift 1=-14(LC 17), 3=-18(LC 17)

Max Grav 1=101(LC 22), 3=101(LC 23), 4=133(LC 2)

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.
- $2) \ \ Wind: ASCE 7-16; \ \ Vult=130mph (3-second \ gust) \ \ Vasd=103mph; \ \ TCDL=6.0psf; \ BCDL=6.0psf; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ Cat. \ II; \ Exp \ B; \ Enclosed; \ h=25ft; \ H$ MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) TCLL: ASCE 7-16; Pr=30.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL= 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Gable requires continuous bottom chord bearing.
- 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.



July 31,2025



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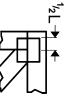
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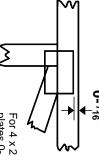


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

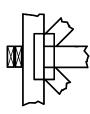
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

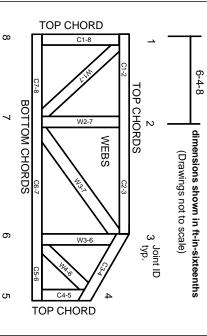
Industry Standards:

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.

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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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.
- 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.