

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 21125039 WAG-7

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

Pages or sheets covered by this seal: I49484536 thru I49484566

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



December 31,2021

Sevier, Scott

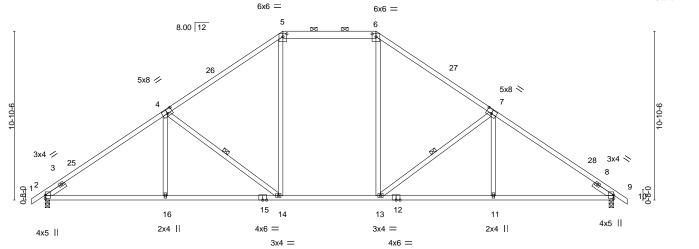
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job Truss Truss Type Qty WAG-7 149484536 21125039 Α1 PIGGYBACK BASE | Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:45 2021 Page 1

The Building Center, Gastonia, NC - 28052, ID:KZLmft3tysq9OF7NcMJ5liyDPNH-JvZGQi2KFrxjaFBU5S3o3Yl9e?n3GJtG?lBxhQy3pvK

28-10-3 36-7-0 -0-10-8 0-10-8 7-8-13 7-6-12 5-11-14 7-6-12 7-8-13

Scale = 1:74.1



		7-0-13	15-5-5	21-3-7	20-10-3	30-7-0	
		7-8-13	7-6-12	5-11-14	7-6-12	7-8-13	<u>'</u>
Plate Offs	sets (X,Y)	[4:0-4-0,0-3-0], [5:0-3-0,0-2-3]	, [6:0-3-0,0-2-3], [7:0-4-0,0-3	-0]			
LOADING	G (psf)		0-0 CSI .	DEFL.	(/	./d PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	15 TC 0.74	Vert(LL)	-0.53 14-16 >821 3	60 MT20	244/190
TCDL	10.0	Lumber DOL 1.	15 BC 0.82	Vert(CT)	-0.66 14-16 >666 2	40	
BCLL	0.0 *	Rep Stress Incr Y	ES WB 0.27	Horz(CT)	0.09 9 n/a r	n/a	
BCDL	10.0	Code IRC2015/TPI201	4 Matrix-AS			Weight: 204 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

5-6: 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 *Except* 12-15: 2x4 SP No.1

WEBS 2x4 SP No.3

SLIDER Left 2x4 SP No.2 1-6-0, Right 2x4 SP No.2 1-6-0

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

Max Horz 2=218(LC 9)

Max Uplift 2=-122(LC 10), 9=-122(LC 11) Max Grav 2=1516(LC 1), 9=1516(LC 1)

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

TOP CHORD $2\text{-}4\text{--}2123/240,\ 4\text{-}5\text{--}1650/278,\ 5\text{-}6\text{--}1258/282,\ 6\text{-}7\text{--}1650/278,\ 7\text{-}9\text{--}2123/240}$ **BOT CHORD** $2-16=-181/1725,\ 14-16=-181/1724,\ 13-14=0/1258,\ 11-13=-86/1675,\ 9-11=-85/1676$ WEBS 4-16=0/292, 4-14=-601/244, 5-14=-22/527, 6-13=-22/527, 7-13=-601/244, 7-11=0/292

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-10, Exterior(2) 11-0-10 to 25-6-6, Interior(1) 25-6-6 to 34-5-8, Exterior(2) 34-5-8 to 37-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 122 lb uplift at joint 9.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except

4-14, 7-13

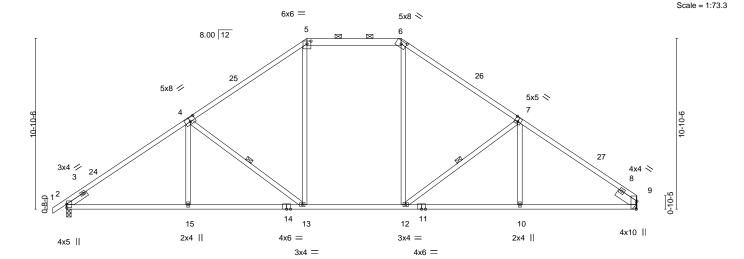
2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt



ID:KZLmft3tysq9OF7NcMJ5liyDPNH-GIg1rN4anSBRpYLsCt6G8zOTypSJkDLYScg2mly3pvI 15-3-9 28-10-3 36-3-8 -0-10-8 0-10-8 7-8-13 7-6-12 5-11-14 7-6-12 7-5-5



	7-8-13 7-8-13	15-3-9 7-6-12	21-3-7 5-11-14	28-10-3 7-6-12	36-3-8 7-5-5	
Plate Offsets (X,Y)	[4:0-4-0,0-3-0], [5:0-3-0,0-2-3],	[6:0-4-0,0-2-6], [7:0-2-8,0-3-4], [9:0-6-2,Edge]			
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1 Rep Stress Incr YE Code IRC2015/TPI2014	5 TC 0.88 5 BC 0.83 S WB 0.28	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) I/defl L/d -0.54 13-15 >803 360 -0.68 13-15 >640 240 0.11 9 n/a n/a	PLATES MT20 Weight: 202 lb	GRIP 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

5-6: 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 *Except* 11-14: 2x4 SP No.1

WEBS 2x4 SP No.3

Left 2x4 SP No.2 1-6-0, Right 2x6 SP No.1 1-6-0 **SLIDER**

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

Max Horz 2=214(LC 7)

Max Uplift 2=-122(LC 10), 9=-104(LC 11) Max Grav 2=1505(LC 1), 9=1451(LC 1)

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

TOP CHORD $2-4=-2105/239,\ 4-5=-1629/277,\ 5-6=-1240/282,\ 6-7=-1621/277,\ 7-9=-2044/239$ **BOT CHORD** 2-15=-192/1705, 13-15=-192/1704, 12-13=-9/1240, 10-12=-113/1598, 9-10=-112/1599 WEBS 4-15=0/294, 4-13=-604/244, 5-13=-22/523, 6-12=-19/499, 7-12=-534/239, 7-10=0/262

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-0-10, Exterior(2) 11-0-10 to 25-6-6, Interior(1) 25-6-6 to 33-3-8, Exterior(2) 33-3-8 to 36-3-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 2 and 104 lb uplift at ioint 9.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except

4-13, 7-12

2-0-0 oc purlins (6-0-0 max.): 5-6.

Rigid ceiling directly applied.

1 Row at midpt

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty WAG-7 149484538 21125039 A2GE **GABLE** 2 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:50 2021 Page 1 The Building Center, Gastonia, NC - 28052,

ID:KZLmft3tysq9OF7NcMJ5liyDPNH-gsM9TP6S4NZ?g03Ru?fzlb0AO0flxdl?8auiNdy3pvF -0-10₋8 15-3-9 5-11-14 15-0-1

> Scale = 1:69.9 5x8 =

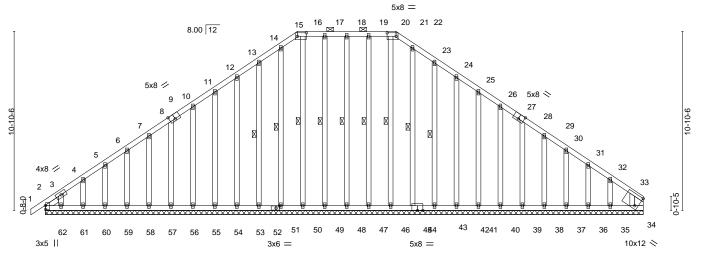


Plate Offsets (X,Y)--[2:0-2-12,0-0-3], [9:0-4-0,Edge], [15:0-6-8,0-2-8], [21:0-6-8,0-2-8], [27:0-4-0,Edge], [34:0-2-4,0-7-12], [52:0-2-8,0-1-8] LOADING (psf) SPACING-DEFL. in I/def **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) -0.00 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 34 Horz(CT) 0.01 n/a n/a Code IRC2015/TPI2014 **BCDL** Weight: 369 lb FT = 20%10.0 Matrix-S

LUMBER-**BRACING-**

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

2-0-0 oc purlins (6-0-0 max.): 15-21. **OTHERS** 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

SLIDER Left 2x4 SP No.2 0-11-14, Right 2x6 SP No.1 0-8-15 WEBS 18-48, 17-49, 16-50, 14-51, 13-53, 19-47, 1 Row at midpt

TOP CHORD

20-46, 22-45, 23-43

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

REACTIONS. All bearings 36-3-8. (lb) -

Max Horz 2=217(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 34, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 47,

43, 42, 41, 40, 39, 38, 37, 36 except 2=-120(LC 6), 35=-138(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 34, 2, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61,

62, 47, 46, 45, 43, 42, 41, 40, 39, 38, 37, 36, 35

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

TOP CHORD 2-3=-253/217

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-3-8, Exterior(2) 2-3-8 to 12-3-9, Corner(3) 12-3-9 to 24-3-7, Exterior(2) 24-3-7 to 32-10-10, Corner(3) 32-10-10 to 35-10-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 34, 48, 49, 50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 47, 43, 42, 41, 40, 39, 38, 37, 36 except (jt=lb) 2=120, 35=138.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



December 31,2021

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

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

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Job Truss Truss Type Qty WAG-7 149484539 21125039 **B1** COMMON Job Reference (optional)

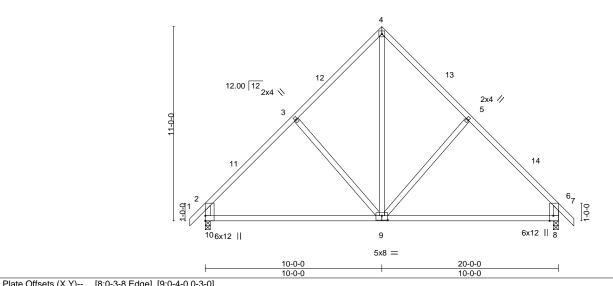
The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:52 2021 Page 1

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-cFUwu58jc?pjwKDq?QhRr05Qoq9SPUVHcuNpRWy3pvD 20-10-8 0-10-8 10-0-0 14-10-4 20-0-0 5-1-12 4-10-4 4-10-4 5-1-12

> Scale = 1:65.2 4x4 =



Tiato Oliooto (7t, 1)	[0:0 0 0;Eugo]; [0:0 1 0;0 0 0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.16 8-9 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.84	Vert(CT) -0.32 8-9 >728 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 115 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 WEBS 2x4 SP No.3 *Except* 2-10,6-8: 2x4 SP No.2

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

Max Horz 10=220(LC 9)

Max Uplift 10=-59(LC 10), 8=-59(LC 11) Max Grav 10=850(LC 1), 8=850(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-841/125, 3-4=-646/171, 4-5=-646/171, 5-6=-841/125, 2-10=-748/154,

6-8=-748/154

9-10=-97/572, 8-9=-15/503

BOT CHORD WEBS 4-9=-129/570

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 17-10-8, Exterior(2) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 31,2021

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484540 21125039 B1GE **GABLE** Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:53 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-4R2I5R8LMIxaXTo0Z8DgNEegHEfB8zpRrY7Mzyy3pvC

20-0-0 10-0-0 10-0-0

> Scale = 1:69.3 3x6 =

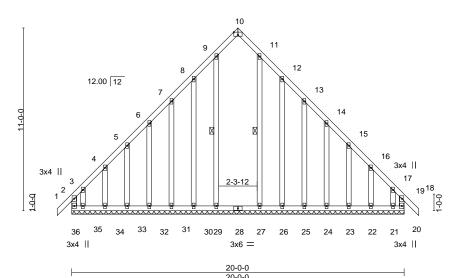


Plate Off	sets (X,Y)	[10:0-3-0,Eage]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.00 19 n/r 120	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.00 19 n/r 90	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01 20 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 185 lb FT = 20%

LUMBER-

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

2x4 SP No.2 **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. **WEBS** 1 Row at midpt 9-29, 11-27

REACTIONS. All bearings 20-0-0.

Max Horz 36=-220(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except 36=-225(LC 8),

20=-195(LC 9), 35=-433(LC 10), 21=-419(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 29, 27, 30, 31, 32, 33, 34, 35, 26, 25, 24, 23, 22, 21 except

36=575(LC 10), 20=555(LC 11)

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

TOP CHORD 2-36=-353/248, 2-3=-420/285, 3-4=-271/175, 16-17=-260/175, 17-18=-406/285,

18-20=-339/248

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-0-0, Exterior(2) 2-0-0 to 7-0-0, Corner(3) 7-0-0 to 13-0-0, Exterior(2) 13-0-0 to 17-10-8, Corner(3) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 30, 31, 32, 33, 34, 26, 25, 24, 23, 22 except (jt=lb) 36=225, 20=195, 35=433, 21=419.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 31,2021



Job Truss Truss Type Qty WAG-7 149484541 21125039 B2 COMMON Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:54 2021 Page 1

ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-ZebgJn9z7c3R9dND7rkvwRAmKeqytOra3CsvWOy3pvB 14-10-4 20-0-0 -0-10-8 0-10-8 5-1-12 4-10-4 4-10-4 5-1-12

> Scale = 1:65.2 4x4 =

> > Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

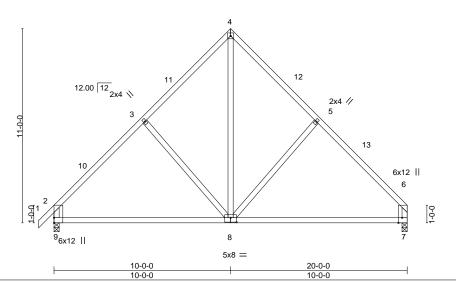


Plate Offsets (X, Y)	[6:0-3-8,Eage], [8:0-4-0,0-3-0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.17 7-8 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.83	Vert(CT) -0.33 8-9 >724 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) 0.02 7 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 113 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-9,6-7: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 7=0-3-8

Max Horz 9=213(LC 7)

Max Uplift 9=-59(LC 10), 7=-52(LC 10) Max Grav 9=851(LC 1), 7=787(LC 1)

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

 $2 - 3 = -843/127, \ 3 - 4 = -647/173, \ 4 - 5 = -648/174, \ 5 - 6 = -843/128, \ 2 - 9 = -749/155, \ 6 - 7 = -683/120$ TOP CHORD

BOT CHORD 8-9=-110/563. 7-8=-29/509

WEBS 4-8=-134/570

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-0-0, Exterior(2) 7-0-0 to 13-0-0, Interior(1) 13-0-0 to 16-10-4, Exterior(2) 16-10-4 to 19-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 7.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484542 COMMON GIRDER 21125039 B2GR 3 Job Reference (optional)

5-1-12

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:56 2021 Page 1

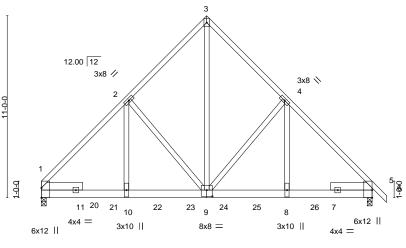
ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-V0jQkSBDfDJ9OxXbEGmN?sG8iRZwLBitXWL0aHy3pv9 14-10-4 10-0-0 20-0-0 20-10_T8 4-10-4

4-10-4 5-1-12 0-10-8

Scale = 1:69.7 4x6 ||

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

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



1	5-1-12	10-0-0	14-10-4	20-0-0
Г	5-1-12	4-10-4	4-10-4	5-1-12

Plate Offse	ets (X,Y)	[9:0-4-0,0-4-8]										
LOADING TCLL	(psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.37	DEFL. Vert(LL)	in -0.08	(loc) 9-10	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.16	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-MSH						Weight: 466 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.3 *Except*

3-9: 2x4 SP No.2

SLIDER Left 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0

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

Max Horz 1=-214(LC 25)

Max Uplift 1=-630(LC 9), 5=-625(LC 9) Max Grav 1=8034(LC 1), 5=7929(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-8426/712, 2-3=-5947/598, 3-4=-5948/599, 4-5=-8554/722 **BOT CHORD** 1-10=-512/5869, 9-10=-512/5869, 8-9=-438/5960, 5-8=-438/5960

3-9=-733/7957, 4-9=-2825/396, 4-8=-277/3731, 2-9=-2684/385, 2-10=-260/3534 **WEBS**

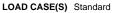
NOTES-

- 1) 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=630, 5=625
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1431 lb down and 124 lb up at 1-5-12, 1431 lb down and 124 lb up at 3-5-12, 1431 lb down and 124 lb up at 4-11-4, 1431 lb down and 124 lb up at 6-11-4, 1431 lb down and 124 lb up at 8-11-4, 1431 lb down and 124 lb up at 10-11-4, 1431 lb down and 124 lb up at 12-11-4, 1431 lb down and 124 lb up at 14-11-4, and 1431 lb down and 124 lb up at 16-5-4, and 1431 lb down and 124 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



December 31,2021

Job Truss Truss Type Qty Ply WAG-7 149484542 21125039 **COMMON GIRDER** B2GR

The Building Center,

Gastonia, NC - 28052,

Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:56 2021 Page 2
ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-V0jQkSBDfDJ9OxXbEGmN?sG8iRZwLBitXWL0aHy3pv9

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-6=-60, 12-16=-20

Concentrated Loads (lb)

Vert: 8=-1431(B) 10=-1431(B) 7=-1431(B) 20=-1431(B) 21=-1431(B) 22=-1431(B) 23=-1431(B) 24=-1431(B) 25=-1431(B) 26=-1431(B)

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply WAG-7 149484543 21125039 C₁ COMMON 2 Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

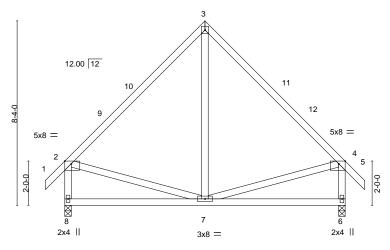
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:57 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-zDHpxoBrQXR0056no_HcY4oFFr?k4nq1lA5Z6jy3pv8

-0-10-8 0-10-8 12-8-0 6-4-0 6-4-0

> Scale = 1:52.1 4x4 =

> > Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.



12-8-0 6-4-0

BRACING-

TOP CHORD

BOT CHORD

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

LOADING (psf) TCLL 20.0 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 0.64 BC 0.32 WB 0.08	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 6-7 >999 360 Vert(CT) -0.06 6-7 >999 240 Horz(CT) 0.00 6 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	1.0.2(0.1) 0.000 0 1.00	Weight: 84 lb FT = 20%

LUMBER-

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

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-146(LC 8)

Max Uplift 8=-46(LC 11), 6=-46(LC 10) Max Grav 8=556(LC 1), 6=556(LC 1)

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

TOP CHORD 2-3=-437/109, 3-4=-437/109, 2-8=-498/126, 4-6=-498/126

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-4-0, Exterior(2) 3-4-0 to 9-4-0, Interior(1) 9-4-0 to 10-6-8, Exterior(2) 10-6-8 to 13-6-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 31,2021



Job	Truss	Truss Type	Qty	Ply	WAG-7	٦
21125039	C1GE	GABLE	1	1	149484544	F
21123039	CIGL	GABLE	'	'	Job Reference (optional)	

Gastonia, NC - 28052, The Building Center,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:13:58 2021 Page 1

ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-RPrB98CTBrateFh_Mhor4HLUNFNHpDCA_gq7fAy3pv7 13-6-8 0-10-8 -0-10-8 0-10-8 6-4-0 6-4-0

> 3x6 = Scale = 1:46.7

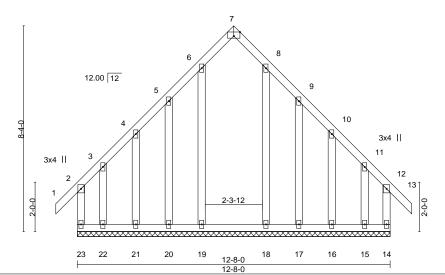


Plate Off	sets (X,Y)	[7:0-3-0,Edge]										
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.00	13	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	014	Matri	x-R						Weight: 108 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. **WEBS** 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-8-0.

2x4 SP No.3

Max Horz 23=146(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 21, 16 except 23=-168(LC 6), 14=-162(LC 7), 20=-126(LC 10),

22=-270(LC 10), 17=-126(LC 11), 15=-266(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 17, 16, 15 except 23=272(LC 18), 14=267(LC 17),

19=279(LC 20), 18=278(LC 19)

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

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-4-6, Exterior(2) 2-4-6 to 3-4-0, Corner(3) 3-4-0 to 9-4-0, Exterior(2) 9-4-0 to 10-3-10, Corner(3) 10-3-10 to 13-6-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 16 except (it=lb) 23=168, 14=162, 20=126, 22=270, 17=126, 15=266,
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

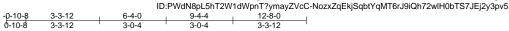


December 31,2021



Job Truss Truss Type Qty Ply WAG-7 149484545 COMMON GIRDER 21125039 C2GR 3 Job Reference (optional)

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:00 2021 Page 1



Scale = 1:52.1 4x4 ||

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

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

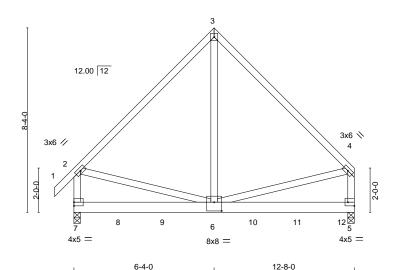


Plate Offsets (X,Y)--[5:Edge,0-2-0], [6:0-4-0,0-4-12] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.06 5-6 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.75 Vert(CT) -0.12 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.59 0.00 Horz(CT) 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-MSH FT = 20%Weight: 277 lb

BRACING-

TOP CHORD

BOT CHORD

6-4-0

except end verticals.

6-4-0

LUMBER-

2x4 SP No.2 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.3

REACTIONS.

(size) 7=0-3-8, 5=0-3-8 Max Horz 7=139(LC 7)

Max Uplift 7=-344(LC 9), 5=-427(LC 8) Max Grav 7=4315(LC 1), 5=5328(LC 1)

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

TOP CHORD 2-3=-3416/334, 3-4=-3407/332, 2-7=-3110/275, 4-5=-3028/273

BOT CHORD 6-7=-223/463, 5-6=-89/423

WFBS 3-6=-319/4299, 4-6=-186/1968, 2-6=-214/2024

NOTES-

- 1) 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=344, 5=427.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1431 lb down and 124 lb up at 2-0-12, 1431 lb down and 124 lb up at 4-0-12, 1431 lb down and 124 lb up at 6-0-12, 1431 lb down and 124 lb up at 8-0-12, and 1431 lb down and 124 lb up at 10-0-12, and 1436 lb down and 119 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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Continued on page 2



a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484545 21125039 **COMMON GIRDER** C2GR

The Building Center,

Gastonia, NC - 28052,

Job Reference (optional)

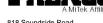
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:00 2021 Page 2
ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-NozxZqEkjSqbtYqMT6rJ9iQh72wlH0bTS7JEj2y3pv5

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20 Concentrated Loads (lb)

Vert: 6=-1431(B) 8=-1431(B) 9=-1431(B) 10=-1431(B) 11=-1431(B) 12=-1436(B)





Job Truss Truss Type Qty Ply WAG-7 149484546 21125039 D COMMON 5 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:01 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-r_XJnAFMUmySViPZ1pMYiwz?RSBJ0Yycgn3nFVy3pv4 -0-10-8 0-10-8 21-0-0 21-10-8 0-10-8

5-1-9

5-1-9

Scale = 1:37.9

5-4-7

21-0-0

10-6-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

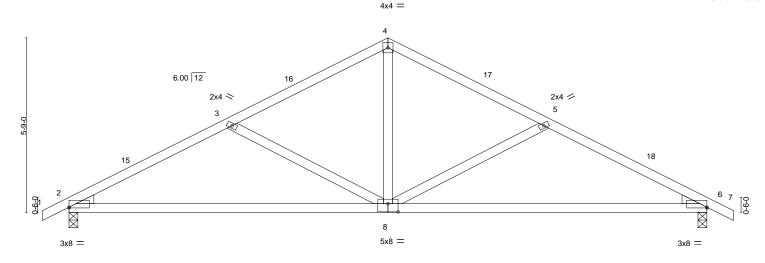


Plate Offsets (X,Y)--[2:0-0-0,0-0-5], [6:Edge,0-0-5], [8:0-4-0,0-3-4] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.18 8-14 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.98 Vert(CT) -0.38 8-14 >667 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.03 6 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 96 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

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

Max Horz 2=78(LC 14)

Max Uplift 2=-92(LC 10), 6=-92(LC 11) Max Grav 2=893(LC 1), 6=893(LC 1)

5-4-7

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

2-3=-1382/202, 3-4=-1035/155, 4-5=-1035/155, 5-6=-1382/202 **BOT CHORD** 2-8=-150/1183, 6-8=-99/1183

WEBS

4-8=-2/603, 5-8=-388/166, 3-8=-388/166

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-6-0, Exterior(2) 7-6-0 to 13-6-0, Interior(1) 13-6-0 to 18-10-8, Exterior(2) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

10-6-0 10-6-0

- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



December 31,2021

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	WAG-7	
					I	49484547
21125039	DGE	COMMON SUPPORTED GAB	1	1		
					Job Reference (optional)	
The Building Center, G	astonia, NC - 28052,		8.4	430 s Aug	16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:02 2021 F	Page 1

ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-KA4h_WF_F34J6s_lbXtnF7WE5smRl3amvRoKoxy3pv3 0-10-8 0-10-8 21-10-8 0-10-8 10-6-0 10-6-0

Scale = 1:38.6

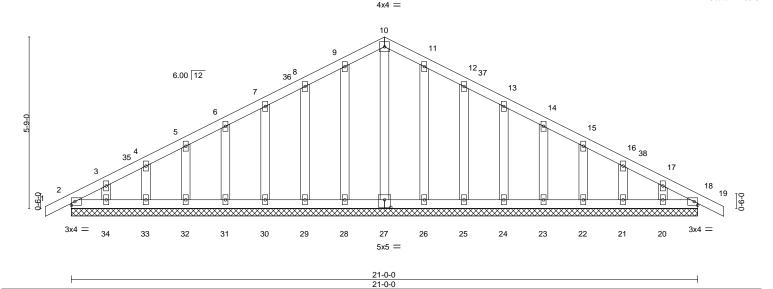


Plate Offsets (X,Y)--[27:0-2-8,0-3-0] (loc) LOADING (psf) SPACING-2-0-0 CSI DEFL. in I/defI L/d **PLATES GRIP** TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 18 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 19 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 18 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Weight: 130 lb FT = 20%Matrix-S

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD OTHERS** 2x4 SP No.3 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 21-0-0.

(lb) -Max Horz 2=78(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 34, 26, 25, 24, 23, 22, 21, 20.18

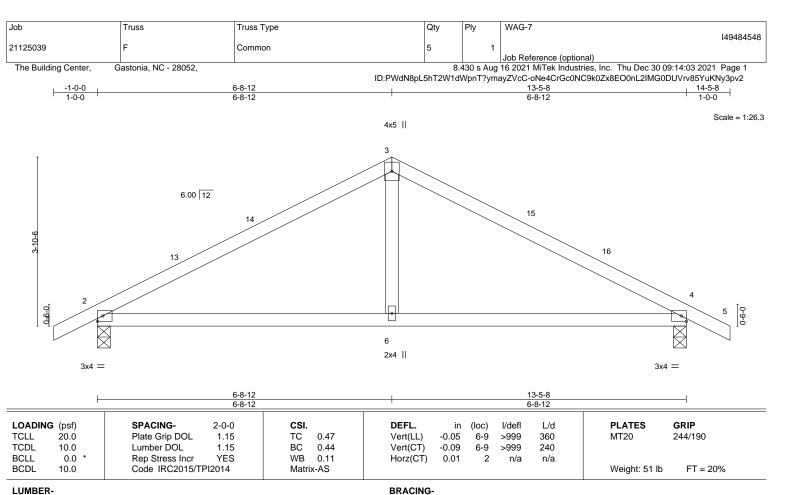
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 7-6-0, Corner(3) 7-6-0 to 13-6-0, Exterior(2) 13-6-0 to 18-10-8, Corner(3) 18-10-8 to 21-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2, 28, 29, 30, 31,
- 32, 33, 34, 26, 25, 24, 23, 22, 21, 20, 18. 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 31,2021





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=53(LC 10)

Max Uplift 2=-66(LC 10), 4=-66(LC 11) Max Grav 2=598(LC 1), 4=598(LC 1)

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

TOP CHORD 2-3=-738/141. 3-4=-738/141 **BOT CHORD** 2-6=-26/586, 4-6=-26/586

WEBS 3-6=0/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 3-8-12, Exterior(2) 3-8-12 to 9-8-12, Interior(1) 9-8-12 to 11-5-8, Exterior(2) 11-5-8 to 14-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





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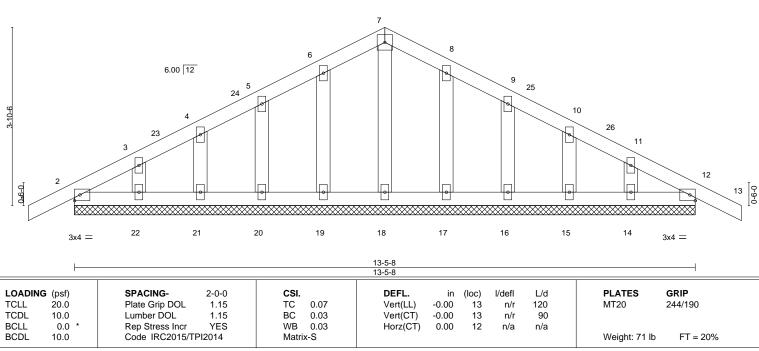
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty WAG-7 149484549 21125039 F1GE Common Supported Gable Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:04 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-GZCSPBHEnhK0MA88iyvFKYbZPgSuDzO3MlHRspy3pv1 14-5-8 1-0-0 6-8-12 6-8-12 1-0-0

4x4 =

Scale = 1:25.0



BRACING-LUMBER-

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

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 13-5-8.

Max Horz 2=53(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-0-0 to 2-0-0, Exterior(2) 2-0-0 to 3-8-12, Corner(3) 3-8-12 to 9-8-12, Exterior(2) 9-8-12 to 11-5-8, Corner(3) 11-5-8 to 14-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 1-4-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 2, 12, 19, 20, 21,
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



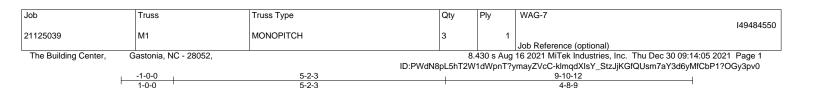
December 31,2021

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4-8-9

Structural wood sheathing directly applied, except end verticals.

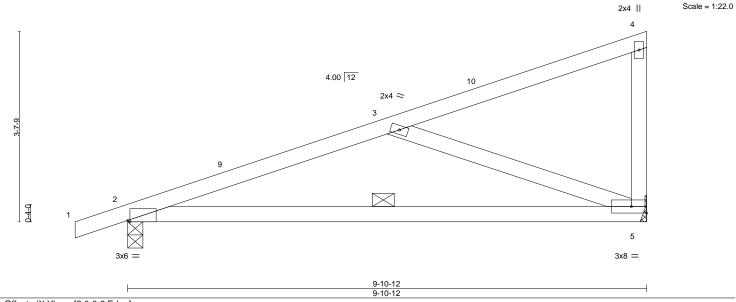


Plate Offsets (X,Y)	[2:0-0-9,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.18 5-8 >640 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.38 5-8 >310 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 44 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

5-0-0 oc bracing.

LUMBER-

REACTIONS.

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

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

Max Horz 2=117(LC 6)

1-0-0

Max Uplift 2=-73(LC 6), 5=-73(LC 10) Max Grav 2=453(LC 1), 5=387(LC 1)

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

TOP CHORD 2-3=-626/95 **BOT CHORD** 2-5=-154/587 WFBS 3-5=-574/169

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-9-0, Exterior(2) 6-9-0 to 9-9-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.

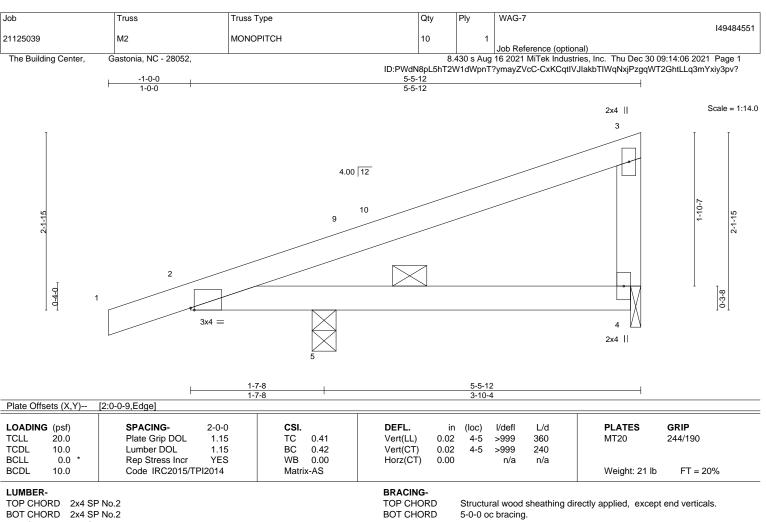


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REACTIONS.

BOT CHORD WEBS 2x4 SP No.3

(size) 5=0-3-8, 4=0-1-8

Max Horz 5=70(LC 6)

Max Uplift 5=-111(LC 6), 4=-21(LC 10) Max Grav 5=401(LC 1), 4=85(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-4-0, Exterior(2) 2-4-0 to 5-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=111.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



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ob	Truss	Truss Type		Qty	ı	Ply	WAG-7	7		1404045
1125039	M2GE	GABLE		1		1				1494845
							Job Re	ference (option	nal)	
The Building Center,	Gastonia, NC - 28052,			ID-DWANISH E	8.43	30 s Aug	g 16 2021	MiTek Industr	ies, Inc. Thu Dec 30 (cibDdtiN4TyyBD?GtN	9:14:07 2021 Page 1
	-1-0-0			1D.PWGINOPLSI 5-5-12	112001	uvvpnii	rymayzvo	C-goua IDJ/3	CIDDUIIN4 I YYDD ?GIN	vQKav3Jvv5Toy3pv_
	1-0-0			5-5-12						
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			5							
	<u> </u>	1-7-8 1-7-8				5-5-1 3-10-				
Plate Offsets (X,Y)	[2:0-0-9,Edge]	1-7-0				3-10-	4			
	· • •									
LOADING (psf)		-0-0 CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0 TCDL 10.0		1.15 TC 1.15 BC	0.41 0.42		0.02	4-5 4-5	>999 >999	360 240	MT20	244/190
BCLL 0.0 *		YES WB			0.02	4-5	>999 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI20		rix-AS	(*.)				.,	Weight: 23 lb	FT = 20%
LIMPED				DD 4 OU C						
L UMBER- TOP CHORD 2x4 SP	No 2			BRACING- TOP CHORE	,	Structu	ral wood	cheathing dir	ectly applied, excep	t and verticals
BOT CHORD 2x4 SP				BOT CHORE			c bracing		еспу аррпец, ехсер	t enu verticais.
WEBS 2x4 SP				20. 0.10112				,-		
OTHERS 2x4 SP	No.3									

REACTIONS. (size) 5=0-3-8, 4=0-1-8

Max Horz 5=70(LC 6)

Max Uplift 5=-111(LC 6), 4=-21(LC 10) Max Grav 5=401(LC 1), 4=85(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

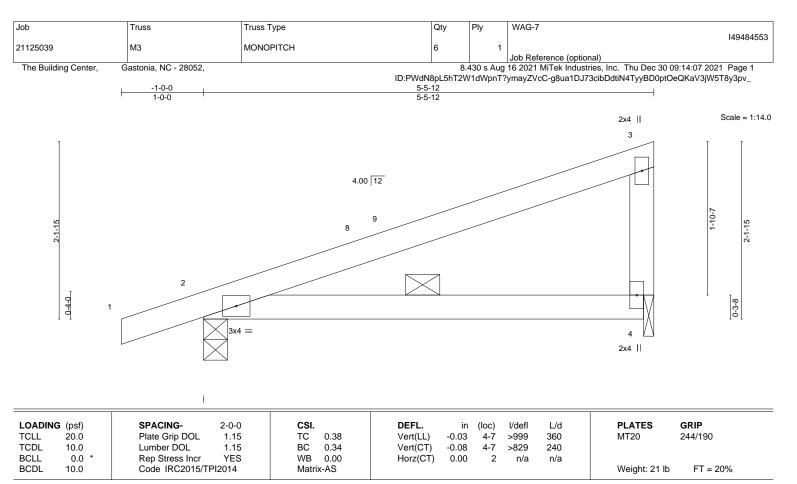
 3) Gable studs spaced at 1-4-0 oc.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 5) *This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



December 31,2021





BRACING-

TOP CHORD

BOT CHORD

5-0-0 oc bracing

LUMBER-TOP CHORD

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

BOT CHORD WEBS 2x4 SP No.3

REACTIONS.

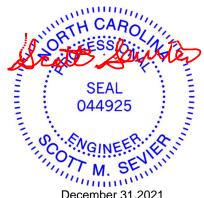
(size) 2=0-3-8, 4=0-1-8 Max Horz 2=70(LC 6)

Max Uplift 2=-57(LC 6), 4=-39(LC 10) Max Grav 2=279(LC 1), 4=208(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-4-0, Exterior(2) 2-4-0 to 5-4-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

December 31,2021

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

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



bb	Truss	Truss Type	Qty	Ply	WAG-7		14040	
1125039	M3GE	GABLE	1	1			149484	554
					Job Reference			
The Building Center,	Gastonia, NC - 28052,						30 09:14:08 2021 Page 1	
	-1-0-0		ID:PWdN8pL5hT 5-5-12	2W1dWpnT	?ymayZVcC-8KS	SzFZKIqvqSqnSvxn_BUC	DIBZHkt9nqeHNFf_by3puz	
	-1-0-0 1-0-0		5-5-12					
							Scale = 1	.440
						2x4	Scale = 1	:14.0
						3		
					2x4			
		4	00 12					
		4.	2x4					
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							2-0	
2-1-15							1-10-7	
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0 1						<u> </u>	1 [8-E-0]	
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	X					2X4 II		
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OADING (psf)	SPACING-	2-0-0 CSI .	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP	
CLL 20.0	Plate Grip DOL	1.15 TC 0.38		.03 4-11	>999 360		244/190	
CDL 10.0	Lumber DOL	1.15 BC 0.34		.08 4-11	>829 240		=::::::	

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.03 4-11 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.08 4-11 >829 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	, ,	Weight: 23 lb FT = 20%

BOT CHORD

5-0-0 oc bracing.

LUMBER-**BRACING-**TOP CHORD

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

OTHERS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-1-8 Max Horz 2=70(LC 6)

Max Uplift 2=-57(LC 6), 4=-39(LC 10) Max Grav 2=279(LC 1), 4=208(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 1-4-0 oc.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord.



Structural wood sheathing directly applied, except end verticals.

December 31,2021



Job Truss Truss Type Qty WAG-7 149484555 21125039 PB1 Piggyback 22 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:09 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:KZLmft3tysg9OF7NcMJ5liyDPNH-cW0LSvLNbDyJSx05VVVQ1clQxh6auE4oW1?CX1y3puy 2-11-15 2-11-15 Scale = 1:14.0 3x4 = 3 8.00 12 2 0-4-7 0-1-10 0-1-10 2x4 = 2x4 =0-9-2 5-11-14 0-9-2 4-5-10 0-9-2 Plate Offsets (X,Y)--[3:0-2-0,Edge] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d GRIP 244/190 TCLL 20.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) 0.00 5 120 n/r MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(CT) 0.00 5 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 17 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins. BOT CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS. 2=4-5-10, 4=4-5-10 (size) Max Horz 2=37(LC 9)

Max Uplift 2=-24(LC 10), 4=-24(LC 11) Max Grav 2=209(LC 1), 4=209(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



December 31,2021



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

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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484556 21125039 V01 Valley

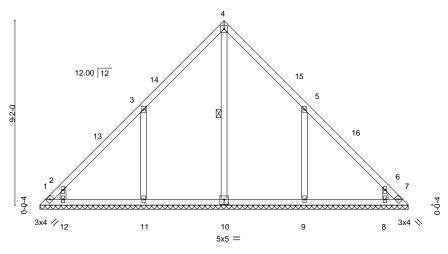
4x4 =

The Building Center, Gastonia, NC - 28052,

Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:10 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-5jZjgFM?MX4A45bH3C0fZprZb4TndfDxlhkl3Ty3pux

9-2-0 18-4-0 9-2-0

Scale = 1:57.2



18-4-0

Plate Offsets	(X,Y)	[10:0-2-8,0-3-0]

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.21	DEFL. Vert(LL)	in (lo n/a	c) l/defl - n/a	L/d 999	PLATES GRIP MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT)	n/a	- n/a	999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT)	0.00	7 n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 93 lb FT = 20%

BRACING-

LUMBER-

TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD **BOT CHORD BOT CHORD** 2x4 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3 **WEBS** 1 Row at midpt 4-10

REACTIONS. All bearings 18-3-8.

(lb) -Max Horz 1=-178(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-149(LC 8), 7=-119(LC 9), 11=-193(LC 10), 12=-150(LC

10), 9=-193(LC 11), 8=-150(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=372(LC 20), 11=437(LC 17), 12=291(LC 17),

9=437(LC 18), 8=292(LC 18)

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

TOP CHORD 1-2=-283/177, 6-7=-255/177

WEBS 3-11=-301/234, 2-12=-254/195, 5-9=-301/234, 6-8=-254/195

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 6-2-0, Exterior(2) 6-2-0 to 12-2-0, Interior(1) 12-2-0 to 14-11-12 , Exterior(2) 14-11-12 to 17-11-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 1, 119 lb uplift at joint 7, 193 lb uplift at joint 11, 150 lb uplift at joint 12, 193 lb uplift at joint 9 and 150 lb uplift at joint 8.
- 8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 31,2021

Job Truss Truss Type Qty Ply WAG-7 149484557 21125039 V02 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:11 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-Zv75tbMd7qC1hFAUcwXu61NkPUp1M6C4zLUJbvy3puw 7-10-0 7-10-0 Scale = 1:49.7 4x4 = 12.00 12 11 2x4 || 2 12 9 3x4 8 7 6 2x4 || 2x4 || 2x4 ||

				107.12	_
LOADING	· /	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) n/a - n/a 999 MT20 244/190	
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.00 5 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 75 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 **OTHERS**

> All bearings 15-7-8. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-196(LC 10), 6=-196(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=357(LC 20), 8=442(LC 17), 6=441(LC 18)

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

0-0-4

2-8=-302/231, 4-6=-302/231 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-4-4 to 3-4-4, Interior(1) 3-4-4 to 4-10-0, Exterior(2) 4-10-0 to 10-10-0, Interior(1) 10-10-0 to 12-3-12, Exterior(2) 12-3-12 to 15-3-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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=196, 6=196
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484558 21125039 V03 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:12 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-15hT5wNFu8KuJOlgAd27fEwweuAl5aEEC?Ds7My3puv 6-6-0 6-6-0 Scale = 1:41.6 4x4 = 3 12.00 12 2x4 || 2x4 || 3x4 // 3x4 8 6 2x4 || 2x4 || 2x4 || 13-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.18 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a n/a 999

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

5

n/a

n/a

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

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

Weight: 60 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

0.0

10.0

OTHERS 2x4 SP No.3

REACTIONS. All bearings 12-11-8.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-170(LC 10), 6=-170(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=327(LC 17), 6=326(LC 18)

WB

Matrix-S

0.10

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

2-8=-266/205, 4-6=-266/204 WEBS

NOTES-

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

Rep Stress Incr

Code IRC2015/TPI2014

- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) 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=170 6=170
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 31,2021



Job Truss Truss Type Qty Ply WAG-7 149484559 21125039 V04 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:13 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-VIFsIGOufSSlxYKskLZMBST47IVZq1jNRfzQgoy3puu 10-4-0 5-2-0 5-2-0 5-2-0 Scale = 1:33.5 4x4 = 3 12.00 12 2x4 || 2x4 || 6 2x4 📏 2x4 // 8 7 2x4 || 2x4 || 2x4 ||

				10012			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a	-	n/a 999	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) n/a	-	n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.00	5	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S				Weight: 44 lb FT = 20%

10-4-0 10-3-12

LUMBER-**BRACING-**

0-0-4

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. All bearings 10-3-8.

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-123(LC 8), 5=-107(LC 9), 8=-195(LC 10), 6=-195(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=364(LC 17), 6=364(LC 18)

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

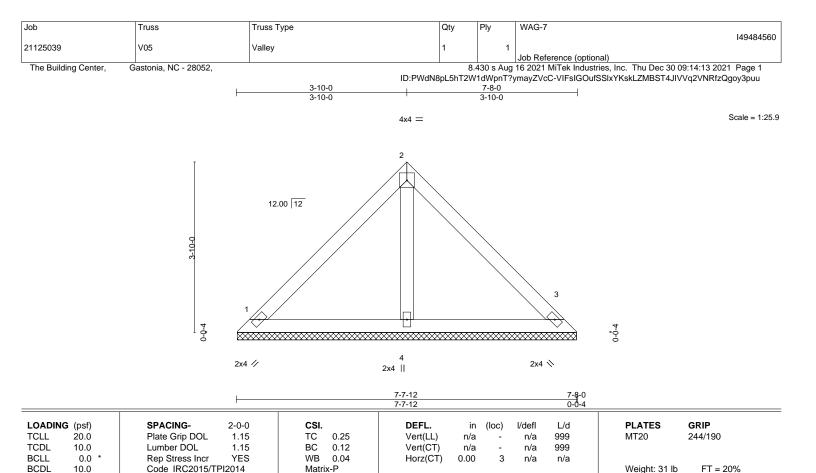
2-8=-314/245, 4-6=-314/244 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 1, 107 lb uplift at joint 5, 195 lb uplift at joint 8 and 195 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=7-7-8, 3=7-7-8, 4=7-7-8 Max Horz 1=-70(LC 6)

Max Uplift 1=-33(LC 11), 3=-33(LC 11)

Max Grav 1=168(LC 1), 3=168(LC 1), 4=221(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1 and 33 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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





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

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply WAG-7 149484561 21125039 V06 Valley Job Reference (optional) The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:14 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-zUpEVcPWQlbcYiv3l25bkf?GYip5ZVJXgJizCEy3put 5-0-0 2-6-0 2-6-0 Scale = 1:17.9 3x4 =2 12.00 12 4-0-0 D-0-4 2x4 // 2x4 💉 5-0-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 20.0 1.15 TC 0.09 Vert(LL) 999 MT20 244/190 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.23 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 17 lb

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS.

1=4-11-8, 3=4-11-8 (size) Max Horz 1=-43(LC 6) Max Uplift 1=-10(LC 11), 3=-10(LC 11) Max Grav 1=172(LC 1), 3=172(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 10 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply WAG-7 149484562 21125039 V07 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:15 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-RgNcjyP8B3jSAsUFrmcqGtYSU5CRlxZguzSWkhy3pus 1-2-0 1-2-0 Scale = 1:8.6 3x4 =2 12.00 12 3 0-0-4 0-0-4 2x4 // 2x4 \

Plate Off	sets (X,Y)	[2:0-2-0,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.01	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P						Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2 BOT CHORD

2x4 SP No.2

1=2-3-8, 3=2-3-8 (size) Max Horz 1=-16(LC 6) Max Uplift 1=-4(LC 10), 3=-4(LC 11) Max Grav 1=65(LC 1), 3=65(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 4 lb uplift at joint
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 2-4-0 oc purlins.

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



Job Truss Truss Type Qty Ply WAG-7 149484563 21125039 V08 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:16 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-vtx_wIQmyNrJo03RPT73p45bdVXD1NFq7dB4G7y3pur 12-10-0 6-5-0 6-5-0 Scale = 1:41.1 4x4 = 3 12.00 12 2x4 || 2x4 || 4 3x4 // 3x4 8 6 2x4 || 2x4 || 2x4 || 12-10-0 12-9-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.18 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) 0.00 5 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

BCDL

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

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

10.0

All bearings 12-9-8.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-169(LC 10), 6=-169(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=325(LC 17), 6=324(LC 18)

Matrix-S

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

Code IRC2015/TPI2014

2-8=-265/204, 4-6=-265/204 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) 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=169 6=169
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 59 lb

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

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

FT = 20%



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



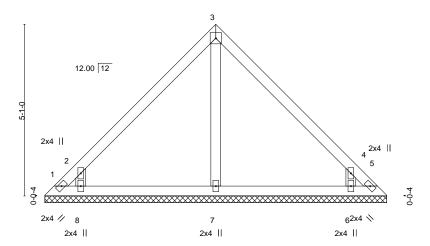
Job Truss Truss Type Qty Ply WAG-7 149484564 21125039 V09 Valley Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:16 2021 Page 1 ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-vtx_wIQmyNrJo03RPT73p45aHVXH1NOq7dB4G7y3pur

10-2-0 5-1-0 5-1-0

> Scale = 1:34.1 4x4 =



0-0-4 0-0-4 10-2-0 10-1-12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 43 lb	FT = 20%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 10-1-8.

Max Horz 1=-96(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-139(LC 8), 5=-125(LC 18), 8=-204(LC 10), 6=-204(LC

11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=380(LC 17), 6=380(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-8=-329/256, 4-6=-329/256

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 1, 125 lb uplift at joint 5, 204 lb uplift at joint 8 and 204 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



December 31,2021



149484565 21125039 V10 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:17 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-N3UM8eROjqzAQAedzAeIMIdlUvtXmrVzMHxdpZy3puq 3-9-0 3-9-0 3-9-0 Scale = 1:25.4 4x4 = 2 12.00 12 3 0-0-4 0-0-4 2x4 // 2x4 \ 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.24 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014

BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

WAG-7

LUMBER-

BCDL

Job

Truss

Truss Type

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

10.0

REACTIONS.

(size) 1=7-5-8, 3=7-5-8, 4=7-5-8 Max Horz 1=69(LC 7) Max Uplift 1=-32(LC 11), 3=-32(LC 11)

Max Grav 1=164(LC 1), 3=164(LC 1), 4=215(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33

Matrix-P

- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 1 and 32 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Weight: 30 lb

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

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

FT = 20%



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Job Truss Truss Type Qty WAG-7 149484566 21125039 V11 Valley Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Dec 30 09:14:18 2021 Page 1 The Building Center, Gastonia, NC - 28052, ID:PWdN8pL5hT2W1dWpnT?ymayZVcC-sF2lL_S0U_511JCqXu9XuVAyeJBKVIJ6axgBL?y3pup 4-10-0 2-5-0 2-5-0 2-5-0 3x4 = Scale = 1:14.9 12.00 12 0-0-4 0-0-4 2x4 📏 2x4 / 4-10-0 0-0-4 4-9-12 Plate Offsets (X,Y)--[2:0-2-0,Edge] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL 244/190 TCLL 20.0 1.15 TC 0.08 Vert(LL) 999 MT20 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.21 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 16 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-10-0 oc purlins.

2x4 SP No.2 BOT CHORD

BOT CHORD

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

REACTIONS. 1=4-9-8, 3=4-9-8 (size)

Max Horz 1=-42(LC 6)

Max Uplift 1=-10(LC 10), 3=-10(LC 11) Max Grav 1=165(LC 1), 3=165(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) 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 with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 10 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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 20/20 software or upon request.

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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 & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

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.

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- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.