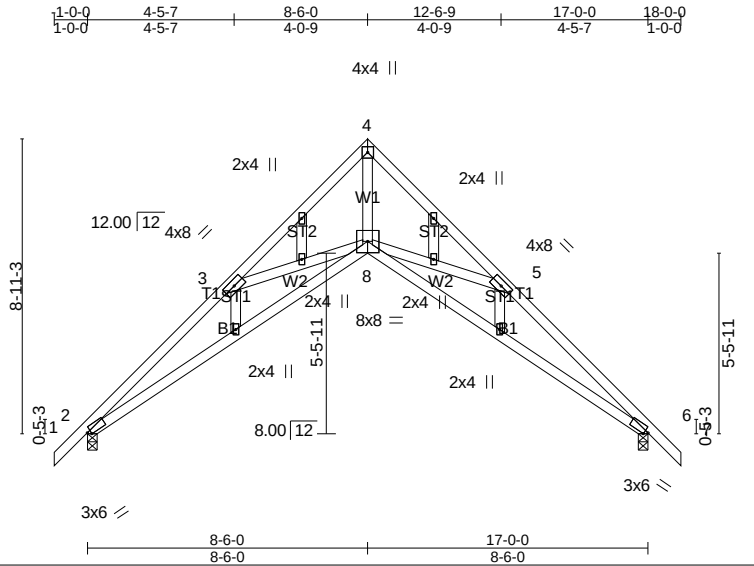
Job	Truss	Truss Type	Qty	Ply	JONATHAN VANN
2100164-2100164A	S1	GABLE	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Feb 4 07:33:22 2021 Page 1
ID:vGwN7Ka7AT2xVsnzUzNwxAzobnf-DVX?ZP69VAw3cDQBsReT2lxqyIeeOrrzzIYi?jzoblh



Scale = 1:69.9

Plate Offsets (X,Y)-- [2:0-1-4,Edge], [6:0-1-4,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.15	8-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	8-17	>613	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.34	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-10-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 740/0-3-8 (min. 0-1-8)
6 = 740/0-3-8 (min. 0-1-8)
Max Horz
2 = -235(LC 10)
Max Uplift
2 = -73(LC 12)
6 = -73(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1972/330, 3-4=-1488/13, 4-5=-1519/55, 5-6=-1889/169
BOT CHORD
2-8=-341/1824, 6-8=-68/1564
WEBS
4-8=0/1798, 5-8=-513/439, 3-8=-524/403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
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.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	JONATHAN VANN
2100164-2100164A	S2	Scissor	12	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Feb 4 07:33:24 2021 Page 1
ID:vGwN7Ka7AT2xVsnzUzNwxAzobnf-9ufm_58Q0oAnsXaZ_sgx7A0AS6J6slLGQc1p4bzoblf

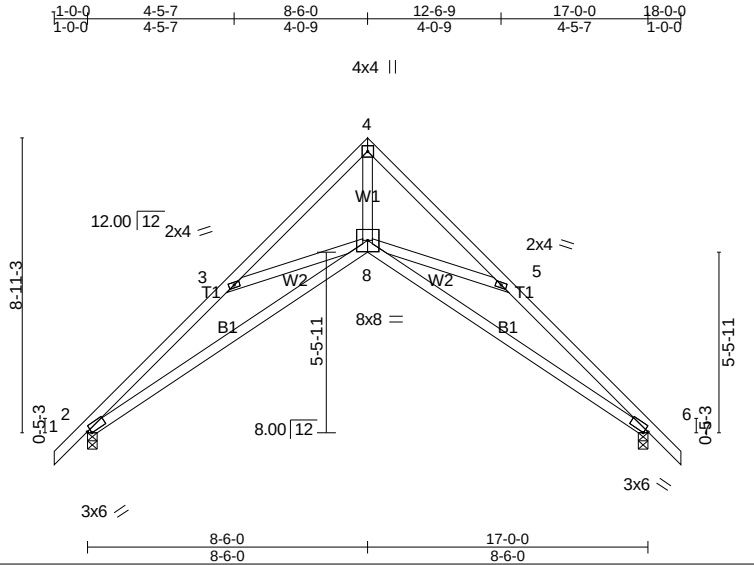


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [6:0-1-4,Edge]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.34	Vert(LL)	-0.15	8-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.69	Vert(CT)	-0.33	8-11	>613	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.68	Horz(CT)	0.34	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS							Weight: 89 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-10-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 740/0-3-8 (min. 0-1-8)
6 = 740/0-3-8 (min. 0-1-8)
Max Horz
2 = -235(LC 10)
Max Uplift
2 = -73(LC 12)
6 = -73(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1972/330, 3-4=-1488/13, 4-5=-1519/55, 5-6=-1889/169
BOT CHORD
2-8=-341/1824, 6-8=-68/1564
WEBS
4-8=0/1798, 5-8=-513/439, 3-8=-524/403

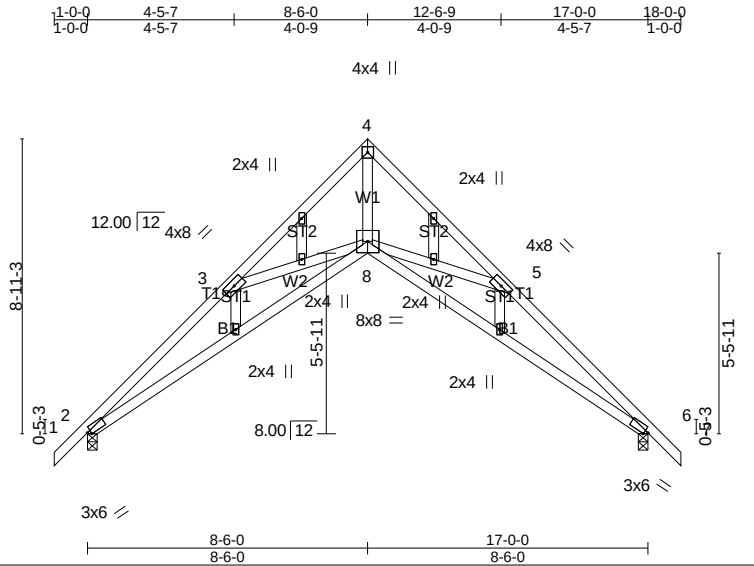
NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
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.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	JONATHAN VANN
2100164-2100164A	S1	GABLE	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Feb 4 07:33:22 2021 Page 1
ID:vGwN7Ka7AT2xVsnzUzNwxAzobnf-DVX?ZP69VAw3cDQBsReT2lxqyIeeOrrzzIYi?jzoblh



Scale = 1:69.9

Plate Offsets (X,Y)-- [2:0-1-4,Edge], [6:0-1-4,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.15	8-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.33	8-17	>613	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.34	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-MS							Weight: 97 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-10-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 740/0-3-8 (min. 0-1-8)
6 = 740/0-3-8 (min. 0-1-8)
Max Horz
2 = -235(LC 10)
Max Uplift
2 = -73(LC 12)
6 = -73(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1972/330, 3-4=-1488/13, 4-5=-1519/55, 5-6=-1889/169
BOT CHORD
2-8=-341/1824, 6-8=-68/1564
WEBS
4-8=0/1798, 5-8=-513/439, 3-8=-524/403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable studs spaced at 2-0-0 oc.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
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.

LOAD CASE(S)
Standard

Job	Truss	Truss Type	Qty	Ply	JONATHAN VANN
2100164-2100164A	S2	Scissor	12	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8.400 s Apr 7 2020 MiTek Industries, Inc. Thu Feb 4 07:33:24 2021 Page 1
ID:vGwN7Ka7AT2xVsnzUzNwxAzobnf-9ufm_58Q0oAnsXaZ_sgx7A0AS6J6slLGQc1p4bzoblf

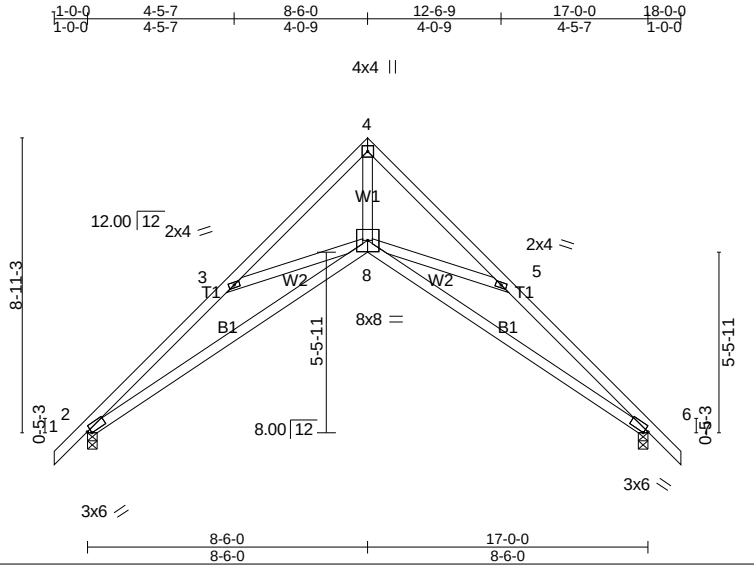


Plate Offsets (X,Y)-- [2:0-1-4,Edge], [6:0-1-4,Edge]

LOADING (psf)		**SPACING-** 2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL 1.15	TC	0.34	Vert(LL)	-0.15	8-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.69	Vert(CT)	-0.33	8-11	>613	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.68	Horz(CT)	0.34	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS							Weight: 89 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD
Structural wood sheathing directly applied or 4-1-4 oc purlins.
BOT CHORD
Rigid ceiling directly applied or 9-10-14 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)
2 = 740/0-3-8 (min. 0-1-8)
6 = 740/0-3-8 (min. 0-1-8)
Max Horz
2 = -235(LC 10)
Max Uplift
2 = -73(LC 12)
6 = -73(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD
2-3=-1972/330, 3-4=-1488/13, 4-5=-1519/55, 5-6=-1889/169
BOT CHORD
2-8=-341/1824, 6-8=-68/1564
WEBS
4-8=0/1798, 5-8=-513/439, 3-8=-524/403

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
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.

LOAD CASE(S)
Standard