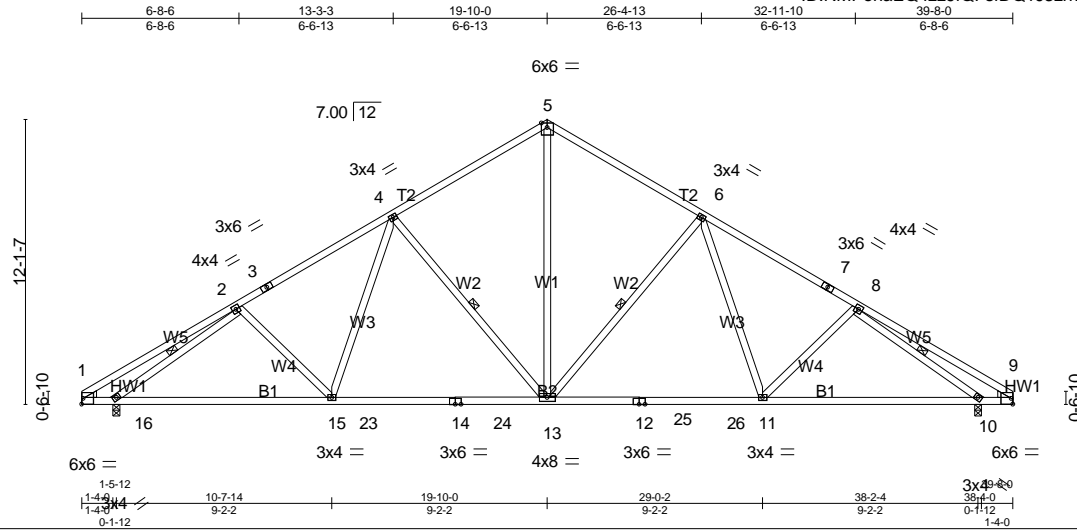


Job 2100198-2100198A	Truss A	Truss Type Common	Qty 10	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	------------	----------------------	-----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:32 2021 Page 1
ID:NMPEhaEQ4zz9fQFsfDQ1J3zhw?Z-WkCSx?57gQ5c2zC5VlyWzGOBQpto5k1flyJt6nzhYn

Scale = 1:98.2



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 0.56	Vert(LL)	-0.25 13-15	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.42 13-15	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 236 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 *Except*
 B2: 2x4 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 6-13, 4-13, 2-16, 8-10

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

REACTIONS. (lb/size) 16=1587/0-3-8 (min. 0-2-8), 10=1587/0-3-8 (min. 0-2-8)
 Max Horz 16=286(LC 11)
 Max Uplift 16=-182(LC 12), 10=-182(LC 13)
 Max Grav 16=1594(LC 19), 10=1594(LC 20)

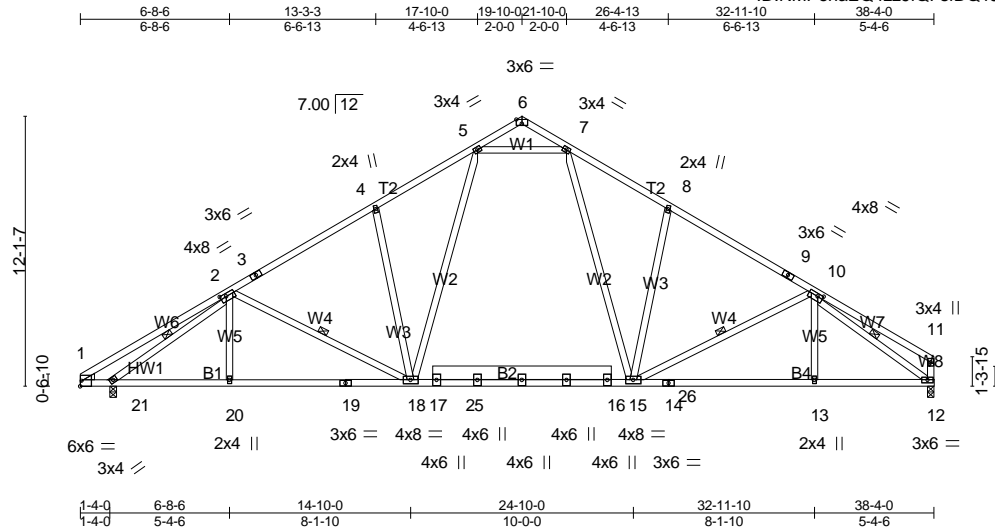
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-348/14, 2-3=-2027/358, 3-4=-1876/395, 4-5=-1525/401, 5-6=-1525/401, 6-7=-1876/395, 7-8=-2027/358, 8-9=-348/14
 BOT CHORD 1-16=0/269, 15-16=-330/1911, 15-23=-183/1726, 14-23=-183/1726, 14-24=-183/1726, 13-24=-183/1726, 13-25=-114/1580,
 12-25=-114/1580, 12-26=-114/1580, 11-26=-114/1580, 10-11=-229/1697, 9-10=0/269
 WEBS 5-13=-241/1125, 6-13=-638/265, 6-11=-24/355, 4-13=-638/265, 4-15=-24/355, 2-16=-1961/413, 8-10=-1961/413

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 10. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss A1	Truss Type ROOF TRUSS	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.33	18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.48	18-20	>916	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 268 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 *Except*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS.

(lb/size) 12=1475/0-3-8 (min. 0-2-5), 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

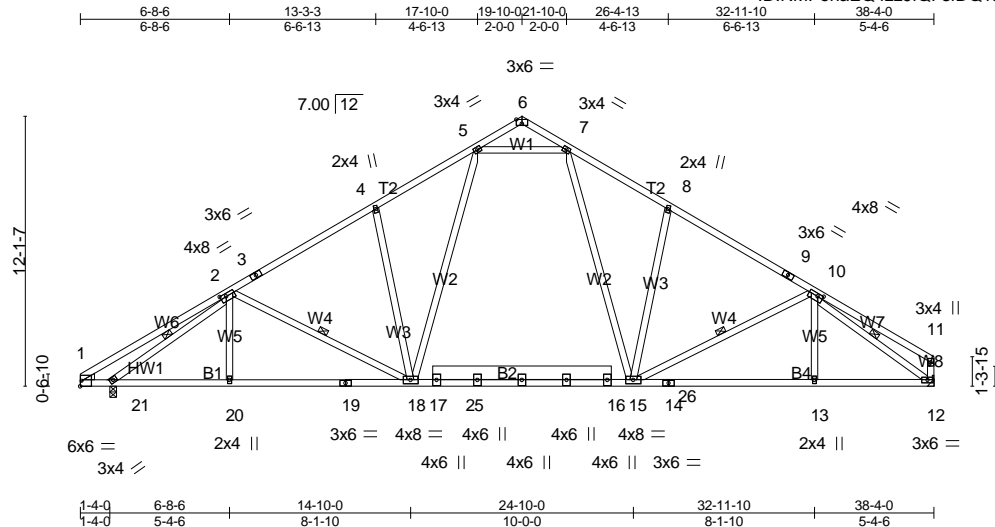
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 21. This connection is for uplift only and does not consider lateral forces.
- 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.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.

LOAD CASE(S) Standard

Job 2100198-2100198A	Truss A2	Truss Type ROOF TRUSS	Qty 4	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:36 2021 Page 1

ID: NMPehaEQ4zz9fQFsdQ1J3zhw?Z-OVsznM8djfb2XbVsk81S86Zn3QFD1aLFgaH5FZzhuYf



Scale = 1:103.5

Plate Offsets (X,Y)-- [2:0-3-4,0-1-8], [6:0-3-0,Edge], [10:0-3-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.90	Vert(LL)	-0.33	18-20	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.48	18-20	>916	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.08	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 268 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 *Except*
 B3: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 2-18, 10-15, 10-12, 2-21

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

REACTIONS. (lb/size) 12=1475/Mechanical, 21=1580/0-3-8 (min. 0-2-8)
 Max Horz 21=304(LC 11)
 Max Uplift 12=-162(LC 13), 21=-182(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1832/344, 3-4=-1744/380, 4-5=-1790/471, 7-8=-1780/471, 8-9=-1736/379, 9-10=-1823/344
 BOT CHORD 20-21=-302/1893, 19-20=-302/1893, 18-19=-302/1893, 17-18=-67/1360, 17-25=-67/1360, 25-26=-67/1360, 16-26=-67/1360,
 15-16=-67/1360, 14-15=-239/1656, 13-14=-239/1656, 12-13=-239/1656
 WEBS 2-20=0/275, 2-18=-285/162, 4-18=-411/263, 5-18=-210/820, 7-15=-206/798, 8-15=-412/266, 10-13=0/285, 10-12=-1962/257,
 2-21=-2006/286, 5-7=-1238/405

NOTES-

- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 12.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.
- Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100198-2100198A	A2	ROOF TRUSS	4	1	Job Reference (optional)

84 Components, Dunn, NC 28334

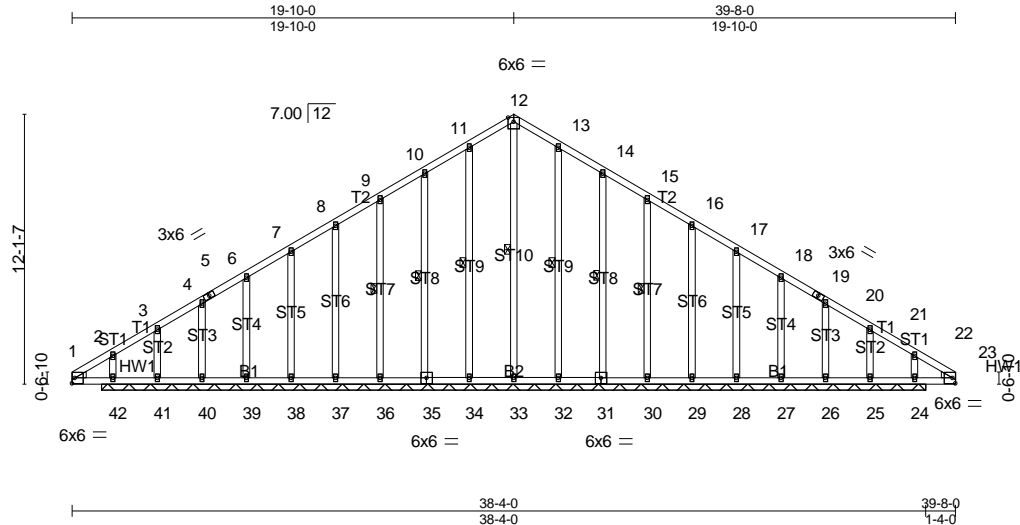
8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:37 2021 Page 2
 ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-sh0L_i9FUykv9k43lsYhgK5ypqaSm1aOuE1en?zhuYi

LOAD CASE(S) Standard

Job 2100198-2100198A	Truss AE	Truss Type Common Supported Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:39 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-p485POAW0a_dO2ERQH9mlBUzeQ?EOihMYWlStzhuYg



Scale = 1:103.5

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 0.16	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.22	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.01 24 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 300 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
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 12-33, 11-34, 10-35, 9-36, 13-32, 14-31, 15-30

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

REACTIONS. All bearings 37-0-0.
 (lb) - Max Horz 42=-292(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26 except 41=-183(LC 12), 42=-154(LC 8), 25=-166(LC 13), 24=-120(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) 34, 35, 36, 37, 38, 39, 40, 32, 31, 30, 29, 28, 27, 26, 25 except 33=308(LC 13), 41=264(LC 10), 42=319(LC 20), 24=293(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-174/264, 9-10=-214/293, 10-11=-257/325, 11-12=-292/363, 12-13=-292/363, 13-14=-257/322, 14-15=-214/274
 WEBS 12-33=-292/173

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=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
 - 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 studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 34, 35, 36, 37, 38, 39, 40, 41, 42, 32, 31, 30, 29, 28, 27, 26, 25, and 24. This connection is for uplift only and does not consider lateral forces.
 - Non Standard bearing condition. Review required.
 - 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.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100198-2100198A	AE	Common Supported Gable	2	1	Job Reference (optional)

84 Components, Dunn, NC 28334

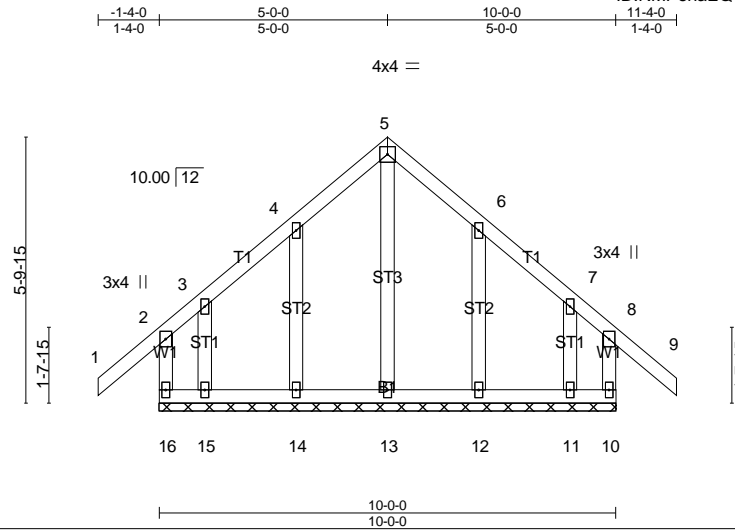
8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:39 2021 Page 2
 ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-p485POAW0a_dO2ERQHa9mBUzeQ?E0ihMYWlsthYg

LOAD CASE(S) Standard

Job 2100198-2100198A	Truss BE	Truss Type Common Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	--------------------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:41 2021 Page 1
ID: NMPehaEQ4zz9QFsfDQ1J3zhw?Z-ISFsq4CmYBELdMOqXhddrAGq4R8MiyY_ps?sxmzhuYe



Scale = 1:50.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) -0.01 9 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Vert(CT) -0.01 9 n/r 90		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.00 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 68 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 6'-0" oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.

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

REACTIONS.

All bearings 10-0-0.
 (lb) - Max Horz 16=-183(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 14, 12 except 16=-171(LC 8), 10=-159(LC 9), 15=-153(LC 9), 11=-145(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2'-0" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16, 10, 14, 15, 12, and 11. This connection is for uplift only and does not consider lateral forces.
- 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.

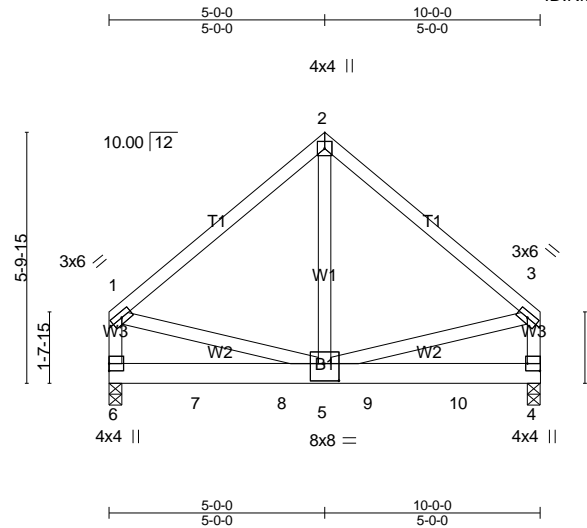
LOAD CASE(S) Standard

Job 2100198-2100198A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	--------------	-----------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:44 2021 Page 1
ID:NMPehaEQ4zz9QFsfDQ1J3zhw?Z-91x_S5Eer6cvUp7PCqAKTouDAf41v9rQVqDWX5zhuYb

Scale = 1:53.5



***** Design Problems *****
REVIEW REQUIRED

Plate Offsets (X,Y)-- [4:Edge,0-3-8], [5:0-4-0,0-4-12]

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 0.70	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.42	Vert(CT)	-0.07	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.66	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-

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

REACTIONS. (lb/size) 6=3260/0-3-8 (min. 0-2-9), 4=3336/0-3-8 (min. 0-2-10)
Max Horz 6=-149(LC 8)
Max Uplift 6=-374(LC 13), 4=-383(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2786/388, 2-3=-2787/388, 1-6=-2373/343, 3-4=-2370/343
BOT CHORD 6-7=-182/365, 7-8=-182/365, 5-8=-182/365, 5-9=-89/299, 9-10=-89/299, 4-10=-89/299
WEBS 2-5=-336/3180, 1-5=-239/1852, 3-5=-239/1841

NOTES-

- 2-ply truss to be connected together with 10d (0.120"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.
- 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

Continued on page 2

Job 2100198-2100198A	Truss BGR	Truss Type Common Girder	Qty 1	Ply 2	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	--------------	-----------------------------	----------	-----------------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:44 2021 Page 2
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-91x_S5Eer6cvUp7PCqAKTouDAf41v9rQVqDWX5zhuYb

NOTES-

- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
- 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) 1455 lb down and 182 lb up at 2-0-12, 1455 lb down and 182 lb up at 4-0-12, and 1455 lb down and 182 lb up at 6-0-12, and 1455 lb down and 182 lb up at 8-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

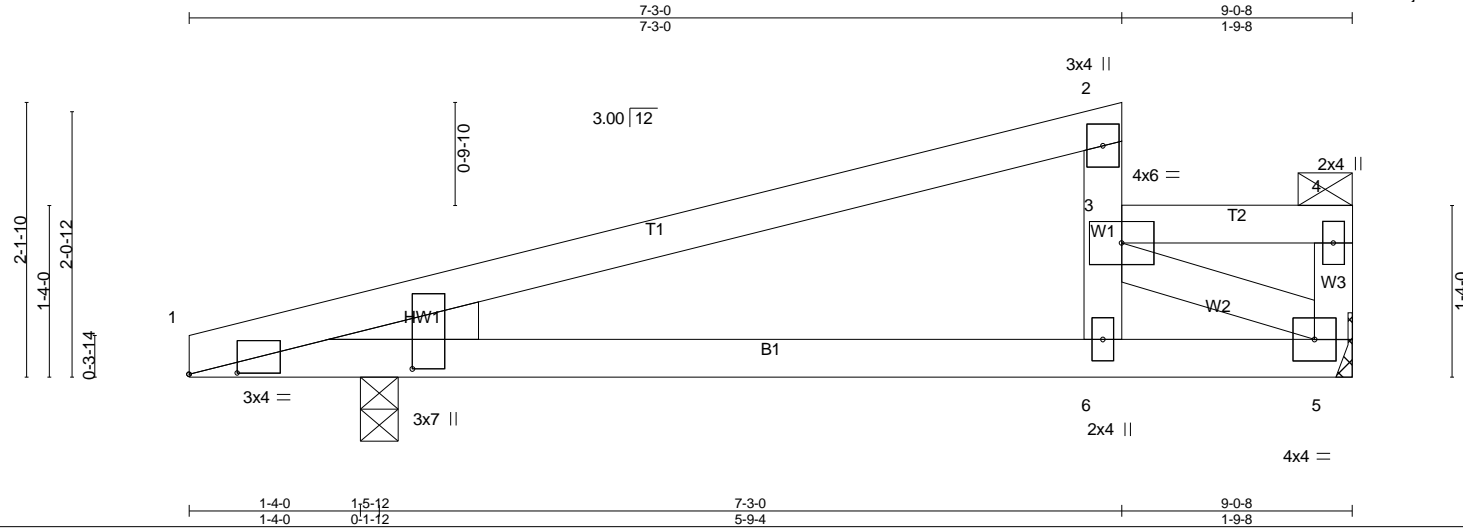
LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-6=-20
Concentrated Loads (lb)
Vert: 7=-1455(B) 8=-1455(B) 9=-1455(B) 10=-1455(B)

Job 2100198-2100198A	Truss M1	Truss Type Half Hip	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:46 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-5Q3ltnGvNjsdk7GnKFCoYDzXLSouNC_jz8idczshuYZ



Scale = 1:17.9

Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

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 0.79	Vert(LL)	0.03	6-11	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	-0.05	6-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS							
									Weight: 35 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
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 3-6, 3-4.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 5=372/Mechanical, 1=429/0-3-8 (min. 0-1-8)

Max Horz 1=86(LC 12)
 Max Uplift1=-62(LC 8)
 Max Grav5=392(LC 2), 1=429(LC 1)

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

TOP CHORD 1-2=-380/98
 BOT CHORD 1-6=-142/338, 5-6=-148/484
 WEBS 3-5=-507/148

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100198-2100198A	M1	Half Hip	5	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:46 2021 Page 2
 ID:NMPehaEQ4zz9fQfSDQ1J3zhw?Z-5Q3ItGvNjsdk7GnKFcoYDzXLSouNC_jz8idczhuYZ

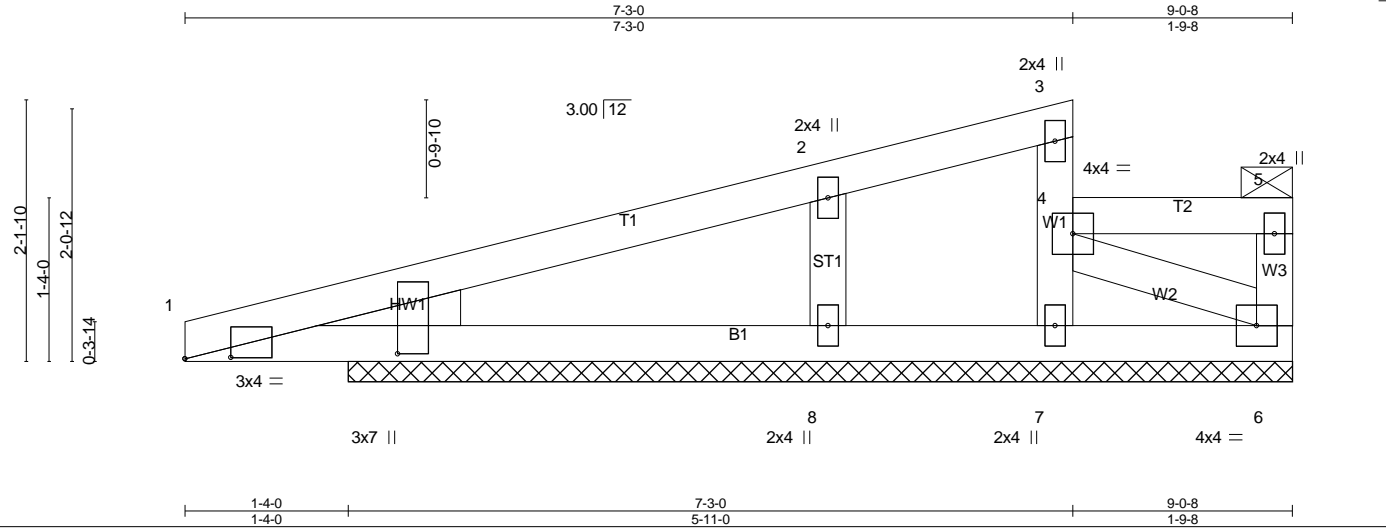
LOAD CASE(S) Standard

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

Vert: 1-2=-60, 3-4=-110(F=-50), 5-7=-20

Job 2100198-2100198A	Truss M1E	Truss Type Half Hip Supported	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN
84 Components, Dunn, NC 28334					Job Reference (optional)

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:47 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z=acc747HX71_ULHr_uyk14RWo9s9Z6frsBoSA8QzhuYY



Scale = 1:18.8

Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Horz(CT)	-0.00	6	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S						
	Code IRC2015/TPI2014						Weight: 37 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
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 9-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-7, 4-5.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS.

All bearings 7-8-8.
 (lb) - Max Horz 1=79(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 1
 Max Grav All reactions 250 lb or less at joint(s) 7, 6, 1 except 8=459(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-326/224

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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) 0-0-0 to 8-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide adequate drainage to prevent water ponding.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- Non Standard bearing condition. Review required.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	120 BEECHLEAF - SOUTHEASTERN
2100198-2100198A	M1E	Half Hip Supported	1	1	Job Reference (optional)

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:47 2021 Page 2
 ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-acc747HX71_ULHr_uyk14RWo9s9Z6frsBoSA8QzhuYY

NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

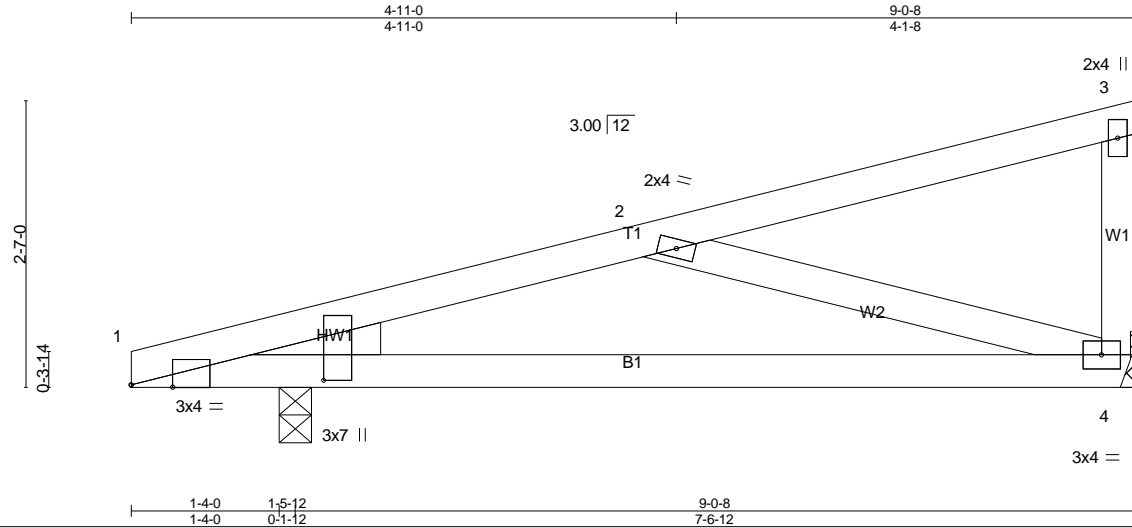
Uniform Loads (plf)

Vert: 1-3=-60, 4-5=-110(F=-50), 1-6=-20

Job 2100198-2100198A	Truss M2	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	-------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:49 2021 Page 1
ID: NMPeHaEQ4zz9fQFsfDQ1J3zhw?Z-W?ktVpInfeECba?M?NmVArb9ngnpaYh9f5xHDIzhuYW



Scale = 1:20.8

Plate Offsets (X,Y)-- [1:0-4-8,Edge], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) -0.05 4-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.17	Vert(CT) -0.11 4-9 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 38 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
 WEDGE
 Left: 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.

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

REACTIONS. (lb/size) 4=293/Mechanical, 1=419/0-3-8 (min. 0-1-8)

Max Horz 1=91(LC 11)
 Max Uplift4=-60(LC 12), 1=-71(LC 8)

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

TOP CHORD 1-2=-495/215
 BOT CHORD 1-4=-267/469
 WEBS 2-4=-453/246

NOTES-

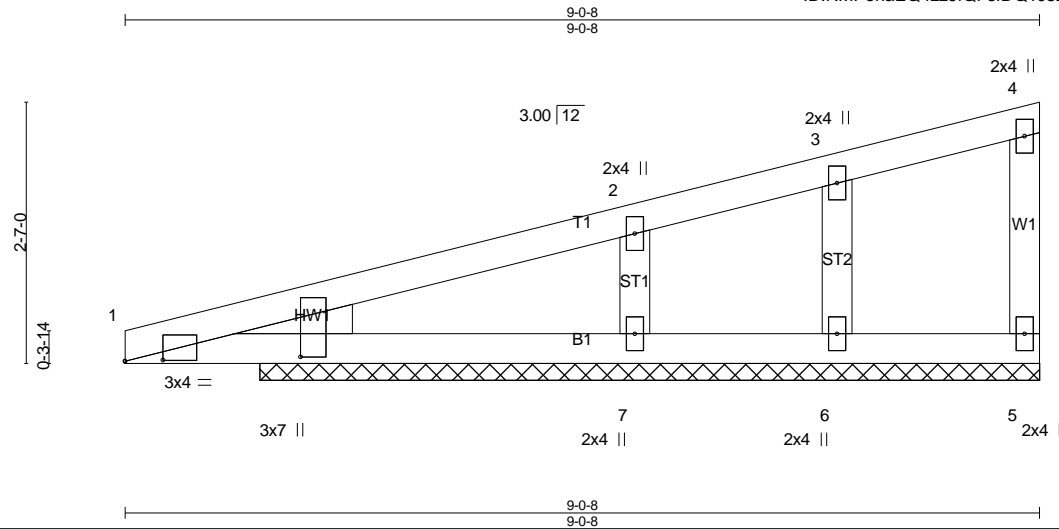
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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 jt(s) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. 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 2100198-2100198A	Truss M2E	Truss Type Monopitch Supported Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	--------------	---	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:55 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-L958msNYFU?MJVSWMetvP6rBb5u5_lu211ObQyZhuYQ



Scale = 1:22.8

Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 36 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
 WEDGE
 Left: 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.

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

REACTIONS.

All bearings 7-8-8.
 (lb) - Max Horz 1=92(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7, 1
 Max Grav All reactions 250 lb or less at joint(s) 5, 6, 1 except 7=425(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-7=-305/210

NOTES-

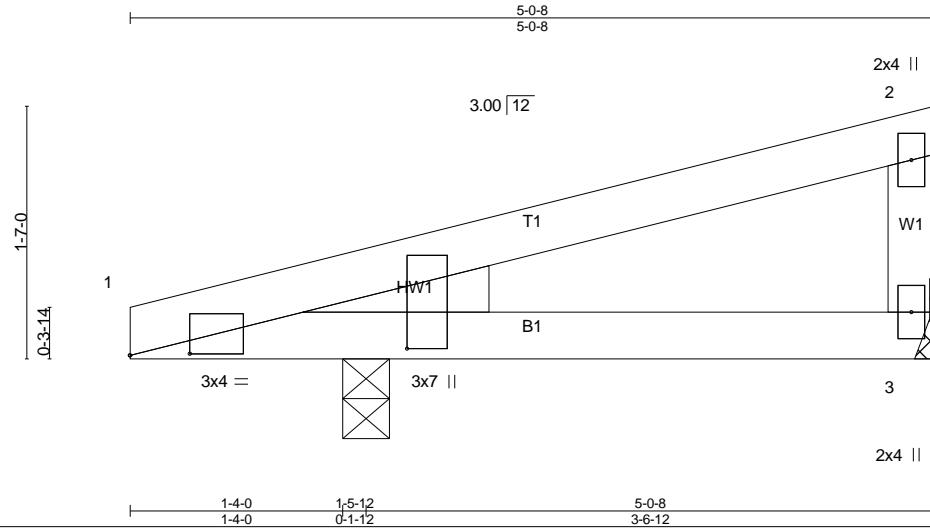
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5, 6, and 7. This connection is for uplift only and does not consider lateral forces.
- 7) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- 8) Non Standard bearing condition. Review required.
- 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 2100198-2100198A	Truss M4	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	-------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:56 2021 Page 1
ID:NMPehaEQ4zz9QFsfDQ1J3zhw?Z-pLfxzCOA0o7Cxf1ivLO8yKOO4UFrj5BGh78yOzhuYP



Scale = 1:14.4

Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL) -0.01	3-8	>999	240	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) -0.01	3-8	>999	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00	1	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 3=123/Mechanical, 1=269/0-3-8 (min. 0-1-8)

Max Horz 1=50(LC 11)
 Max Uplift3=-27(LC 12), 1=-45(LC 8)

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

NOTES-

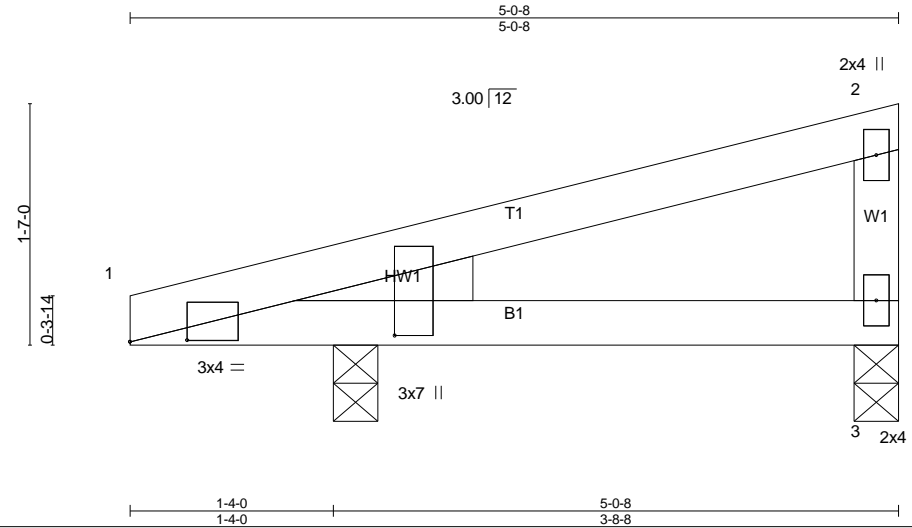
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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) 3.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. 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 2100198-2100198A	Truss M4E	Truss Type Monopitch Structural Gable	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	--------------	--	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:53:58 2021 Page 1
ID:NMPehaEQ4zz9QFsfDQ1J3zhw?Z-lknHOuPRYPNwAzB51mQc1TkaXJBfUj?cf1HzhuYN



Scale = 1:15.1

Plate Offsets (X,Y)-- [1:0-4-8,0-0-2], [1:0-0-8,1-8-13]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	-0.01	3-8	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	3-8	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	1	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-MP						
	Code IRC2015/TPI2014						Weight: 19 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
 WEDGE
 Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 3=123/0-3-8 (min. 0-1-8), 1=269/0-3-8 (min. 0-1-8)

Max Horz 3=50(LC 11)
 Max Uplift 3=27(LC 12), 1=45(LC 8)

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

NOTES-

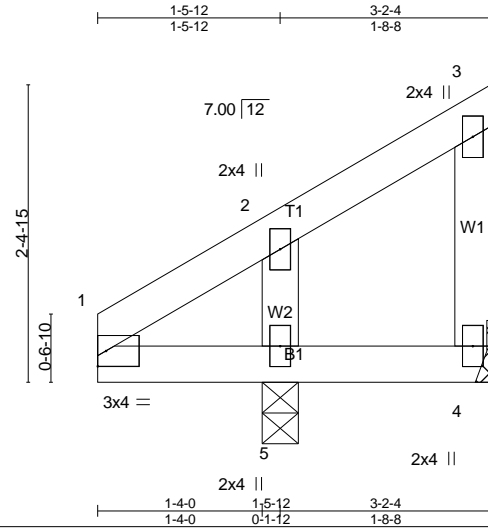
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 1. 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 2100198-2100198A	Truss M6	Truss Type Monopitch	Qty 5	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	-------------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:00 2021 Page 1
ID:NMPehaEQ4zz9fQFsdQ1J3zhw?Z-h6v1pZRh41dePHLT8BT46AY5W6dwfYbnBJ5M5AzhYL



Scale = 1:18.7

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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 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 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 4=6/Mechanical, 5=237/0-3-8 (min. 0-1-8)
Max Horz 5=73(LC 11)
Max Uplift 4=-48(LC 9), 5=-18(LC 12)
Max Grav 4=47(LC 10), 5=237(LC 1)

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

NOTES-

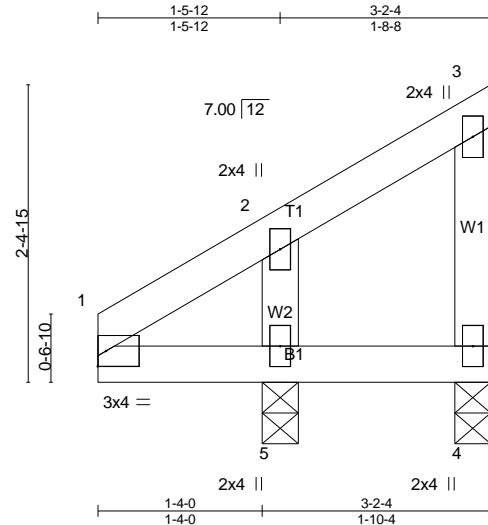
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) 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) 4.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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 2100198-2100198A	Truss M6E	Truss Type Monopitch Structural Gable	Qty 2	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	--------------	--	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:01 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-9JTQ0vSjQKIV1Qwgiu_JfN5GFVz9O?rwPzrveczhuYK



Scale = 1:18.7

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 0.10	Vert(LL) 0.00 5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MP		Weight: 14 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 3-2-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS.

(lb/size) 4=6/0-3-8 (min. 0-1-8), 5=237/0-3-8 (min. 0-1-8)
 Max Horz 4=73(LC 11)
 Max Uplift 4=-48(LC 9), 5=-18(LC 12)
 Max Grav 4=47(LC 10), 5=237(LC 1)

FORCES.

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

NOTES-

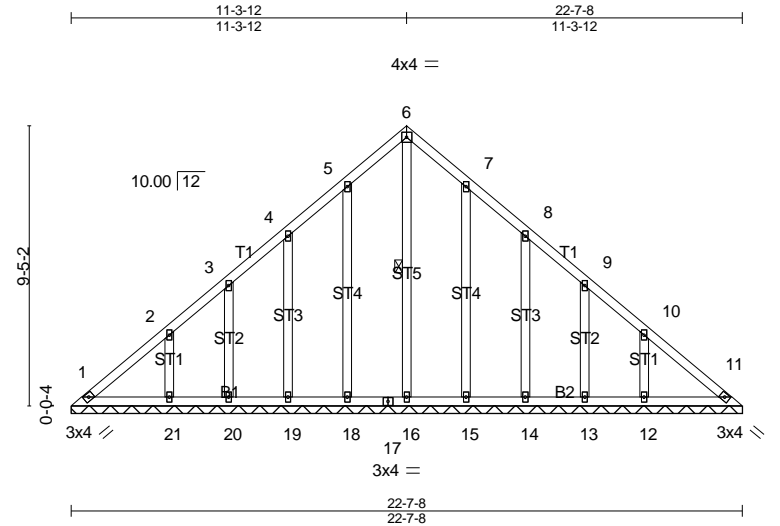
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2-0-0 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4 and 5. 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 2100198-2100198A	Truss V1	Truss Type GABLE	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	---------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:03 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-6haARbTZMy?DGk42qJ0nkoAcmJf7stVDtHK0iUzhuYI



Scale = 1:77.7

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 0.10	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) 0.01 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 145 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
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-16

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

REACTIONS.

All bearings 22-7-8.
(lb) - Max Horz 1=225(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 18, 19, 20, 15, 14, 13 except 21=-124(LC 12), 12=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 16, 18, 19, 20, 15, 14, 13 except 21=263(LC 19), 12=263(LC 20)

FORCES.

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

NOTES-

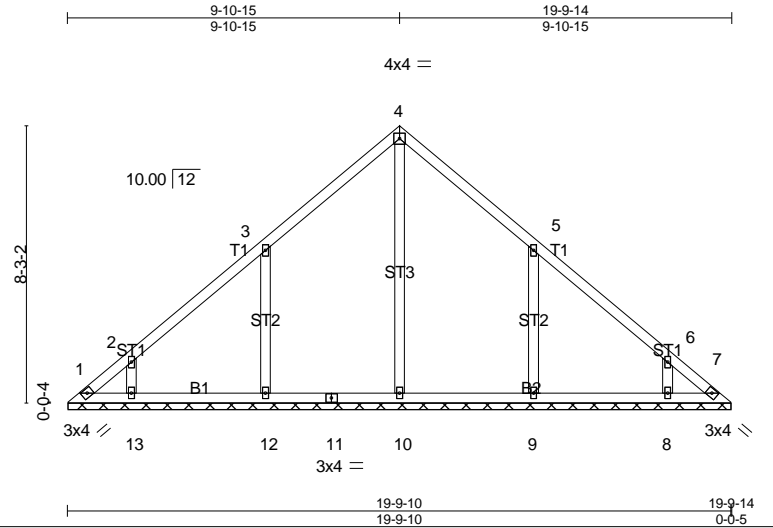
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 11, 18, 19, 20, 21, 15, 14, 13, and 12. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V2	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:05 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-24iwsHVquZFxW2DRxk2FpDGv7JeKm6WKbp7nNzhuYG



Scale = 1:68.7

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 0.20	Vert(LL) n/a - n/a 999	MT20	197/144
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 0.21	Horz(CT) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 94 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
 OTHERS 2x4 SP No.3

BRACING-

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

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

REACTIONS.

All bearings 19-9-5.
 (lb) - Max Horz 1=-196(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-187(LC 12), 13=-132(LC 12), 9=-187(LC 13), 8=-133(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=387(LC 22), 12=442(LC 19), 13=273(LC 19), 9=442(LC 20), 8=273(LC 20)

FORCES.

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

WEBS 3-12=-311/237, 5-9=-311/236

NOTES-

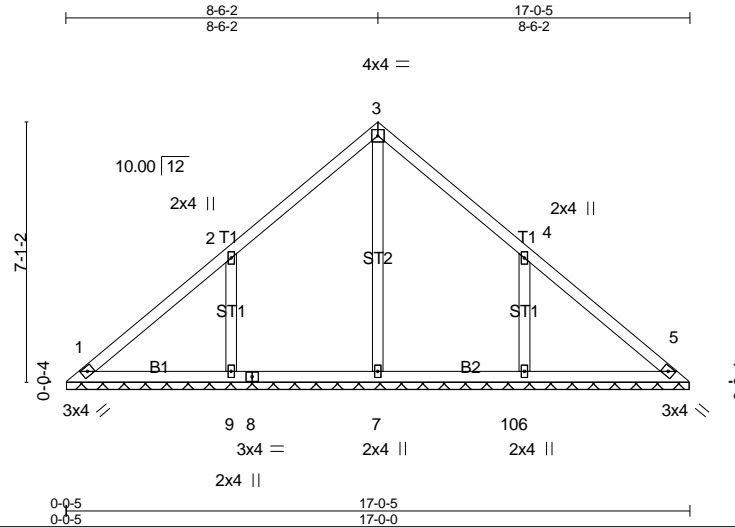
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 7, 12, 13, 9, and 8. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V3	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:07 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-_TqhHyW4QAVfILNq395jueLCBwzJohjpovIErGzhuYE



Scale = 1:62.9

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 0.39	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 76 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS.

All bearings 16-11-11.
(lb) - Max Horz 1=-167(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-206(LC 12), 6=-206(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=364(LC 22), 9=464(LC 19), 6=466(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-336/251, 4-6=-336/251

NOTES-

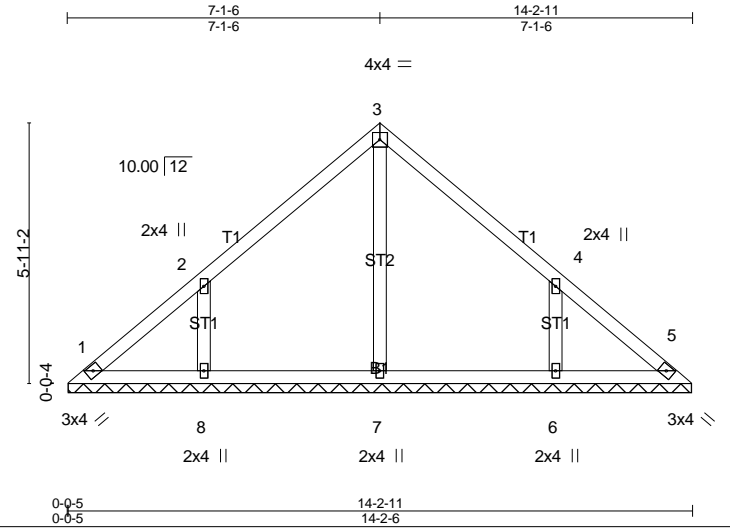
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 9, and 6. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V4	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:09 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-wryRieYKyomM_fXCaa7Bz3Qa5khgGco5FDnKw8zhuYC



Scale = 1:52.4

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 0.30	Vert(LL) n/a - n/a 999	MT20	197/144
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 0.10	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS.

All bearings 14-2-2.
(lb) - Max Horz 1=-138(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-173(LC 12), 6=-173(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=349(LC 19), 6=349(LC 20)

FORCES.

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

WEBS 2-8=-285/214, 4-6=-285/214

NOTES-

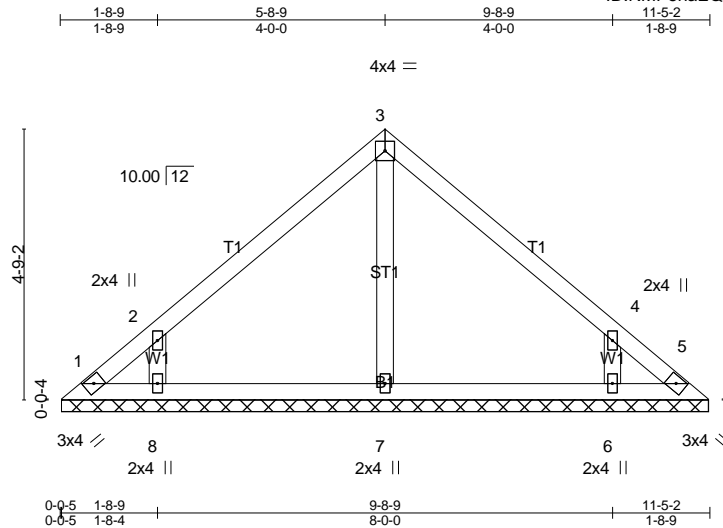
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 8, and 6. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V5	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:11 2021 Page 1
ID: NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-tE3C7KZaUP04Ezhl?9f3UVwPXLkkWpOjWGR_1zhuYA



Scale = 1:40.5

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 0.31	Vert(LL) n/a - n/a 999	MT20	244/190
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 0.06	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 46 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS.

All bearings 11-4-8.
 (lb) - Max Horz 1=109(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-166(LC 12), 6=-166(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=326(LC 19), 6=326(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-280/213, 4-6=-280/213

NOTES-

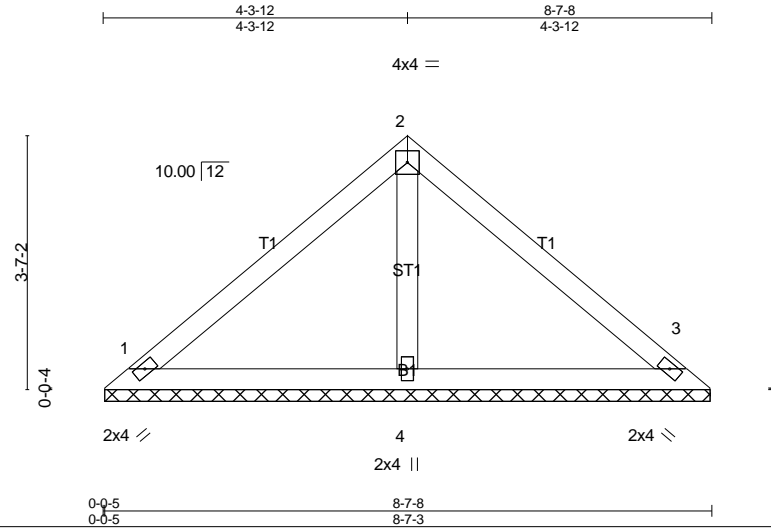
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1, 5, 8, and 6. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V6	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:12 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-LQdaKgaDFj8xr7Gnrigubi22Bxg6T_MYxA??XTzhuY9



Scale = 1:32.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 32 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

REACTIONS. (lb/size) 1=178/8-6-14 (min. 0-1-8), 3=178/8-6-14 (min. 0-1-8), 4=270/8-6-14 (min. 0-1-8)
Max Horz 1=-81(LC 8)
Max Uplift1=-37(LC 13), 3=-47(LC 13)

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

NOTES-

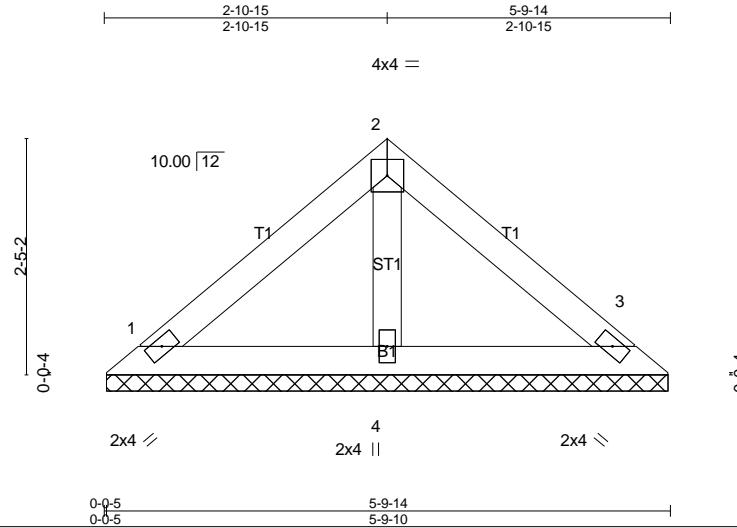
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 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 2100198-2100198A	Truss V7	Truss Type Valley	Qty 1	Ply 1	120 BEECHLEAF - SOUTHEASTERN Job Reference (optional)
-------------------------	-------------	----------------------	----------	----------	--

84 Components, Dunn, NC 28334

8,400 s Apr 7 2020 MiTek Industries, Inc. Wed Feb 24 15:54:14 2021 Page 1
ID:NMPehaEQ4zz9fQFsfDQ1J3zhw?Z-HpIKIMcTnKOf5QPaz7jMg77SYIP_xuCfPUU5bMzhuY7



Scale = 1:23.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 21 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 1=114/5-9-5 (min. 0-1-8), 3=114/5-9-5 (min. 0-1-8), 4=173/5-9-5 (min. 0-1-8)
Max Horz 1=-52(LC 8)
Max Uplift1=-24(LC 13), 3=-30(LC 13)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.
- 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