Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A1	Truss	7	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:28 — Page: 1

ID:evUC1d?ak6Tsv4ti9g5qZ6yRYik-v2CknN34oE_WCG9wc8QOylFd9wF8r_AOBB2q?SyQbur

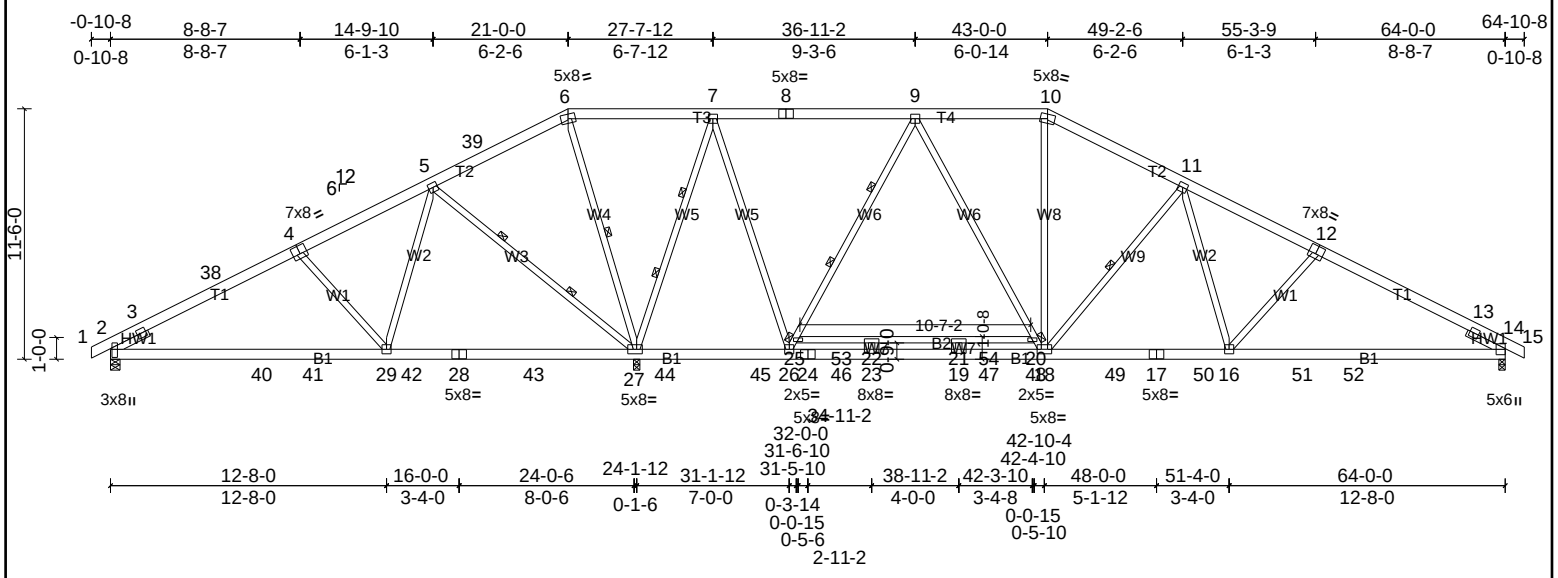


Plate Offsets (X, Y): [2:0-4-14,0-0-13], [4:0-4-0,0-4-8], [12:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.34	21-22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.58	21-22	>832	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.04	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 513 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.1 *Except* B2:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W5:2x4 SP No.1, W6:2x4 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 2=967/0-5-4, (min. 0-1-8), 14=1425/0-3-8, (min. 0-1-12), 27=3834/0-3-8, (req. 0-4-14)
Max Horiz 2=-191 (LC 11)
Max Uplift 2=-58 (LC 10), 14=-225 (LC 11), 27=-40 (LC 7)
Max Grav 2=1042 (LC 21), 14=1495 (LC 24), 27=4145 (LC 2)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-4-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-10.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 20-25
WEBS	1 Row at midpt 6-27, 11-18
WEBS	2 Rows at 1/3 pts 5-27, 7-27, 9-25

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

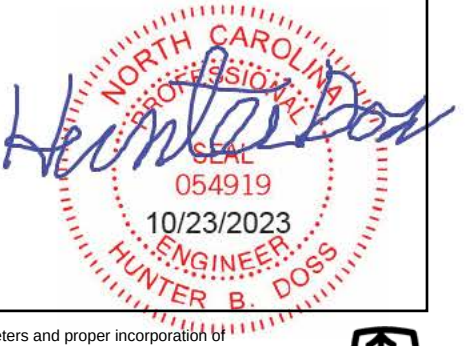
TOP CHORD	2-3=-864/0, 3-38=-1260/52, 4-38=-1255/129, 4-5=-829/158, 5-39=0/964, 6-39=0/1117, 6-7=0/1144, 7-8=-262/253, 8-9=-262/253, 9-10=-1283/428, 10-11=-1508/425, 11-12=-2112/531, 12-13=-2342/562, 13-14=-1088/0
BOT CHORD	2-40=-220/1122, 40-41=-117/1122, 29-41=-117/1122, 29-42=-66/347, 28-42=-66/347, 28-43=-66/347, 27-43=-66/347, 27-44=-431/276, 44-45=-431/276, 26-45=-431/276, 24-26=0/785, 24-46=0/785, 23-46=0/785, 19-23=0/785, 19-47=0/785, 47-48=0/785, 18-48=0/785, 18-49=-141/1703, 17-49=-141/1703, 17-50=-141/1703, 16-50=-141/1703, 16-51=-344/2018, 51-52=-344/2018, 14-52=-344/2018
WEBS	5-27=-1397/245, 6-27=-789/135, 10-18=-25/389, 11-18=-716/341, 7-27=-2390/362, 25-26=-1370/286, 9-25=-1358/325, 9-20=-50/924, 18-20=-92/912, 11-16=-104/500, 12-16=-364/273, 5-29=0/1076, 4-29=-867/156, 7-26=-94/1918

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 27 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 2, 40 lb uplift at joint 27 and 225 lb uplift at joint 14.
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.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) 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



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A1	Truss	7	1	Job Reference (optional)

Uniform Loads (lb/ft)

Vert: 1-38=-60, 6-39=-60, 6-10=-60, 10-15=-60, 30-34=-20, 20-25=-20

Trapezoidal Loads (lb/ft)

Vert: 38=-150 (F=-50)-to-4=-135 (F=-35), 4=-135 (F=-35)-to-5=-109 (F=-9), 5=-109 (F=-9)-to-39=-100

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A1G	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:29 — Page: 1

ID:CHoKSOJxYg6q_WyW5VR6qSyRY?8-NFm6?j4iZX6NpQj6AsxdUznxjKnJad4XQroOYuyQbuq

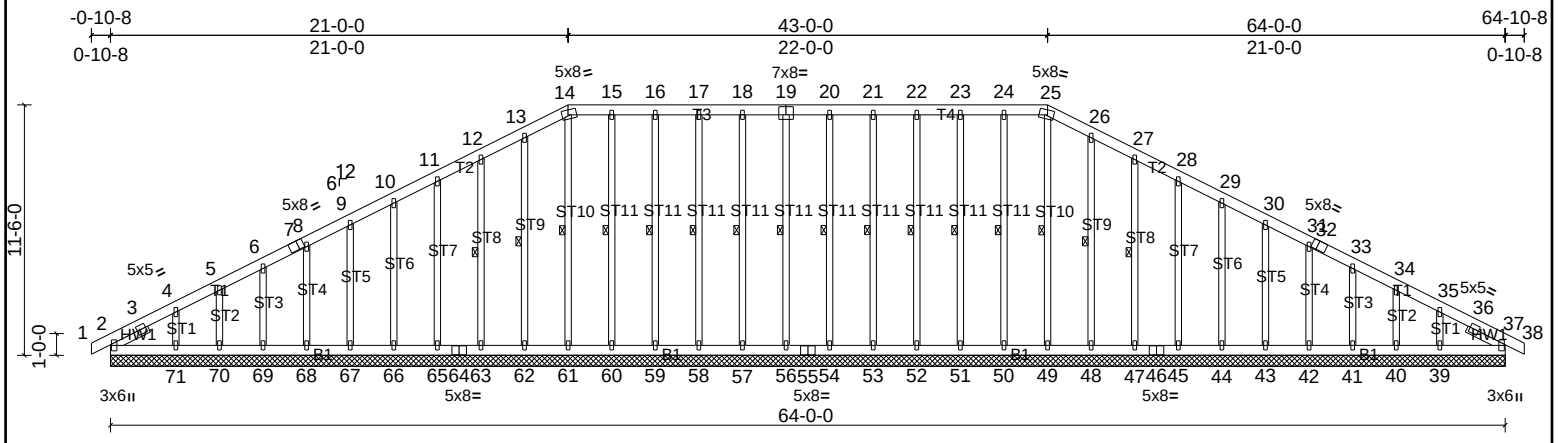


Plate Offsets (X, Y): [2:0-3-6,0-0-8], [7:0-3-2,Edge], [14:0-4-0,Edge], [19:0-4-0,0-4-8], [25:0-4-0,Edge], [32:0-3-2,Edge], [37:0-3-6,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	37	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 661 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 14-25.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 19-56, 20-54, 18-57, 17-58, 16-59, 15-60, 14-61, 13-62, 12-63, 21-53, 22-52, 23-51, 24-50, 25-49, 26-48, 27-47

REACTIONS All bearings 64-0-0.

(lb) - Max Horiz 2=191 (LC 10), 72=191 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) 2, 40, 41, 42, 43, 44, 45, 47, 48, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 62, 63, 65, 66, 67, 68, 69, 70, 72 except 39=-127 (LC 11), 71=-149 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 2, 37, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66, 67, 68, 69, 70, 71, 72, 76

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

TOP CHORD 12-13=-113/290, 13-14=-128/333, 14-15=-116/321, 15-16=-115/321, 16-17=-115/321, 17-18=-115/321, 18-19=-115/321, 19-20=-115/321, 20-21=-115/321, 21-22=-115/321, 22-23=-115/321, 23-24=-115/321, 24-25=-116/321, 25-26=-128/333, 26-27=-113/290

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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.
4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x5 MT20 unless otherwise indicated.
7) Gable requires continuous bottom chord bearing.
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 56, 54, 57, 58, 59, 60, 62, 63, 65, 66, 67, 68, 69, 70, 53, 52, 51, 50, 48, 47, 45, 44, 43, 42, 41, 40, 2 except (jt=lb) 71=149, 39=126.
12) 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.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A2	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:29 — Page: 1

ID:9xRVRuYs4WV7mRvAj_Ha5SyRY_r-NFm6?j4iZX6NpQj6AsxdUznjVKd0aQHXQroOYuyQbuq

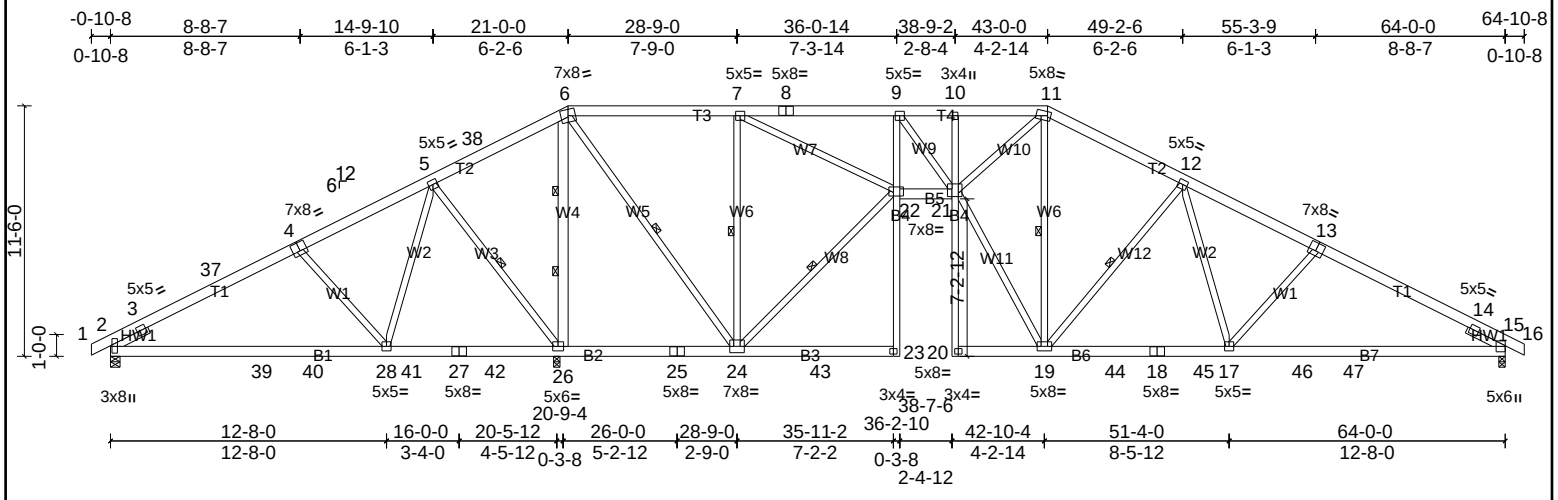


Plate Offsets (X, Y): [2:0-4-2,0-0-13], [4:0-4-0,0-4-12], [11:0-1-12,0-2-4], [13:0-4-0,0-4-8], [21:0-2-8,0-4-4], [22:0-5-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.18	10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.21	28-31	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.96	Horz(CT)	0.19	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 550 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS	2x4 SP No.3 *Except* W4:2x6 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 2=274/0-5-4, (min. 0-1-8), 15=1299/0-3-8, (min. 0-1-9), 26=4433/0-3-8, (req. 0-5-4)

Max Horiz 2=-191 (LC 11)

Max Uplift 2=-158 (LC 22), 15=-288 (LC 11), 26=-204 (LC 7)

Max Grav 2=462 (LC 21), 15=1308 (LC 22), 26=4455 (LC 2)

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-11-8 oc purlins, except 2-0-0 oc purlins (5-8-1 max.): 6-11.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 2-28,26-28 5-4-1 oc bracing: 24-26.
WEBS	1 Row at midpt 5-26, 6-24, 7-24, 22-24, 11-19, 12-19
WEBS	2 Rows at 1/3 pts 6-26

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

TOP CHORD 2-3=-585/26, 3-37=-416/730, 4-37=-416/917, 4-5=-274/1308, 5-38=-36/2030, 6-38=-24/2200, 6-7=0/579, 7-8=-1091/443, 8-9=-1091/443, 9-10=-1600/527, 10-11=-1606/530, 11-12=-982/557, 12-13=-1663/638, 13-14=-1929/669, 14-15=-1003/0

BOT CHORD 2-39=-653/515, 39-40=-653/515, 28-40=-653/515, 28-41=-1312/351, 27-41=-1312/351, 27-42=-1312/351, 26-42=-1312/351, 25-26=-1823/443, 24-25=-1823/443, 9-22=-1077/291, 21-22=-77/1103, 19-44=-245/1268, 18-44=-245/1268, 18-45=-245/1268, 17-45=-245/1268, 17-46=-438/1640, 46-47=-438/1640, 15-47=-438/1640

WEBS 4-28=-959/164, 5-28=-8/1082, 5-26=-1299/247, 6-24=-457/2321, 7-24=-1274/301, 22-24=-699/255, 7-22=-138/1730, 9-21=-147/886, 19-21=-95/1579, 11-21=-84/1104, 11-19=-658/71, 12-19=-766/318, 12-17=-73/612, 13-17=-373/269, 6-26=-3252/587

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 26 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 158 lb uplift at joint 2, 204 lb uplift at joint 26 and 288 lb uplift at joint 15.
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.
11) Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
12) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) 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 (lb/ft)

NORTH CAROLINA PROFESSIONAL SEAL 054919 10/23/2023 ENGINEER HUNTER B. DOSS

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A2	Truss	2	1	Job Reference (optional)

Vert: 1-37=-60, 6-38=-60, 6-11=-60, 11-16=-60, 23-29=-20, 21-22=-20, 20-33=-20

Trapezoidal Loads (lb/ft)

Vert: 37=-150 (F=-40)-to-4=-135 (F=-40), 4=-135 (F=-40)-to-5=-109 (F=-40), 5=-109 (F=-40)-to-38=-100 (F=-40)

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A3	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:30 — Page: 1

ID:eIDICkCopcmhiUtVEGEi8LyRXyi-rRKUC35KKrEERaIlkZSs1AKwkj_6JuigfVXx4KyQbup

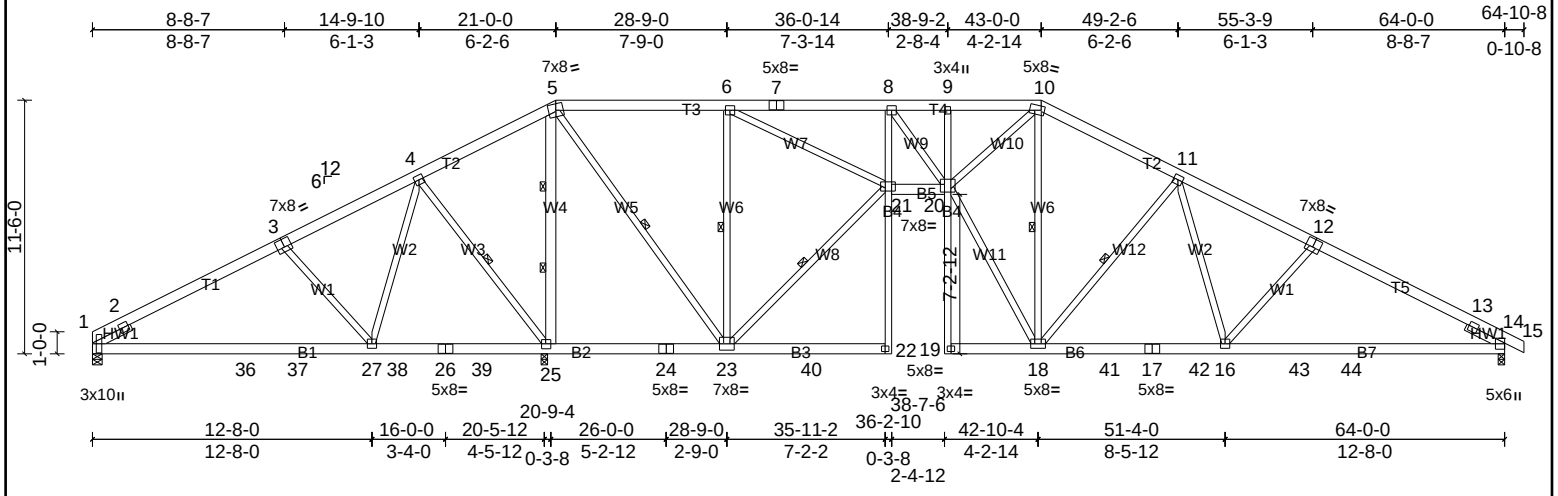


Plate Offsets (X, Y): [1:0-5-6,0-2-1], [3:0-4-0,0-4-8], [10:0-1-12,0-2-4], [12:0-4-0,0-4-8], [20:0-2-4,0-4-4], [21:0-5-8,0-1-12], [25:0-2-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.18	9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.36	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.21	14	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 548 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* B4:2x4 SP No.3
WEBS	2x4 SP No.3 *Except* W4:2x6 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

REACTIONS (lb/size) 1=-125/0-5-4, (min. 0-1-8), 14=1323/0-3-8, (min. 0-1-9), 25=3975/0-3-8, (req. 0-4-12)
Max Horiz 1=-199 (LC 15)
Max Uplift 1=-522 (LC 22), 14=-282 (LC 11), 25=-299 (LC 7)
Max Grav 1=156 (LC 6), 14=1332 (LC 22), 25=4035 (LC 2)

BRACING

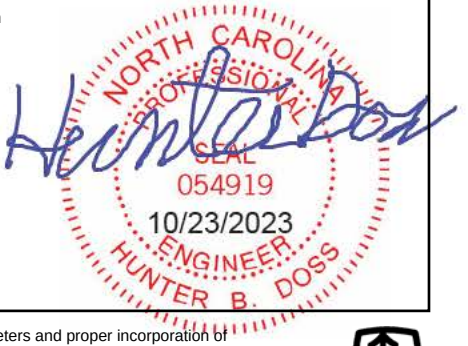
TOP CHORD	Structural wood sheathing directly applied or 4-10-6 oc purlins, except 2-0-0 oc purlins (5-4-13 max.): 5-10.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-10-10 oc bracing: 1-27 5-6-9 oc bracing: 25-27 5-5-9 oc bracing: 23-25.
WEBS	1 Row at midpt 4-25, 5-23, 6-23, 21-23, 10-18, 11-18
WEBS	2 Rows at 1/3 pts 5-25

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

TOP CHORD	1-2=-422/197, 2-3=-200/1425, 3-4=-164/1546, 4-5=-60/2096, 5-6=0/505, 6-7=-1271/410, 7-8=-1271/410, 8-9=-1757/498, 9-10=-1762/502, 10-11=-1033/548, 11-12=-1707/629, 12-13=-1977/660, 13-14=-1017/0
BOT CHORD	1-36=-1199/336, 36-37=-1199/336, 27-37=-1199/336, 27-38=-1509/311, 26-38=-1509/311, 26-39=-1509/311, 25-39=-1509/311, 24-25=-1729/460, 23-24=-1729/460, 8-21=-1042/297, 20-21=-36/1283, 18-41=-236/1311, 17-41=-236/1311, 17-42=-236/1311, 16-42=-236/1311, 16-43=-430/1681, 43-44=-430/1681, 14-44=-430/1681
WEBS	3-27=-548/305, 4-27=-120/789, 4-25=-817/333, 5-23=-462/2294, 6-23=-1326/291, 21-23=-589/274, 6-21=-116/1846, 8-20=-155/845, 18-20=-78/1668, 10-20=-49/1254, 10-18=-735/53, 11-18=-765/318, 11-16=-74/608, 12-16=-370/270, 5-25=-3187/597

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 25 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint 1, 299 lb uplift at joint 25 and 282 lb uplift at joint 14.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A4	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:30 — Page: 1

ID:7rQpF8ElY1bU0iS1HKnseUyRXxM-rRKUC35KKrEERaIlkZSs1AKwTjwLJvQgfVXx4KyQbup

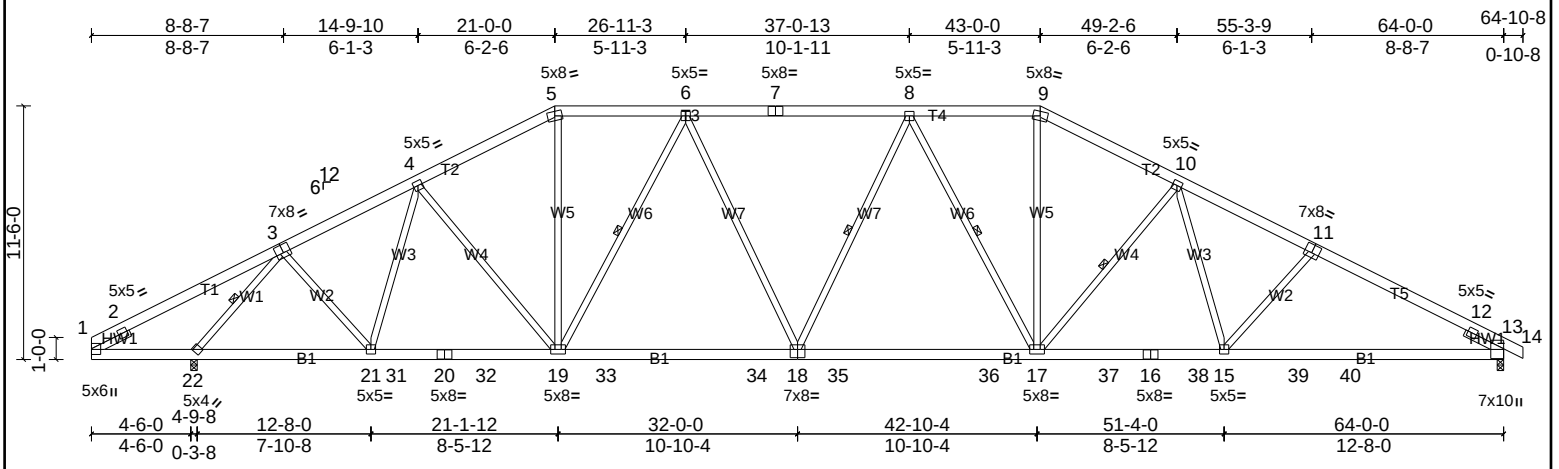


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [11:0-4-0,0-4-8], [18:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.30	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.56	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.18	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 500 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* T5:2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-3-14 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-19, 8-18, 8-17, 10-17, 3-22

REACTIONS (lb/size) 13=2415/0-3-8, (min. 0-2-15), 22=2758/0-3-8, (min. 0-3-4)
Max Horiz 22=-199 (LC 15)
Max Uplift 13=-272 (LC 11), 22=-276 (LC 10)
Max Grav 13=2474 (LC 2), 22=2775 (LC 2)

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

TOP CHORD	1-2=-451/679, 2-3=-203/410, 3-4=-2820/709, 4-5=-3105/844, 5-6=-2722/807, 6-7=-3378/928, 7-8=-3378/928, 8-9=-3130/914, 9-10=-3564/966, 10-11=-4087/1031, 11-12=-4302/1055, 12-13=-1733/128
BOT CHORD	1-22=-267/276, 21-22=-280/1823, 21-31=-368/2604, 20-31=-368/2604, 20-32=-368/2604, 19-32=-368/2604, 19-33=-435/3180, 33-34=-435/3180, 18-34=-435/3180, 18-35=-485/3371, 35-36=-485/3371, 17-36=-485/3371, 17-37=-605/3521, 16-37=-605/3521, 16-38=-605/3521, 15-38=-605/3521, 15-39=-776/3733, 39-40=-776/3733, 13-40=-776/3733
WEBS	5-19=-218/1109, 6-19=-1065/282, 6-18=-12/543, 8-17=-682/266, 9-17=-278/1328, 10-17=-672/312, 10-15=-62/429, 11-15=-254/245, 3-22=-3205/918, 3-21=-63/975, 4-21=-583/185, 4-19=-84/294

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 22 and 272 lb uplift at joint 13.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A5	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:30 — Page: 1

ID:cOcJIYHhISRHKw1YJOK17dyRXw0-rRKUC35KKrEERaIlkZSs1AK?uj?OJu2gfVXx4KyQbup

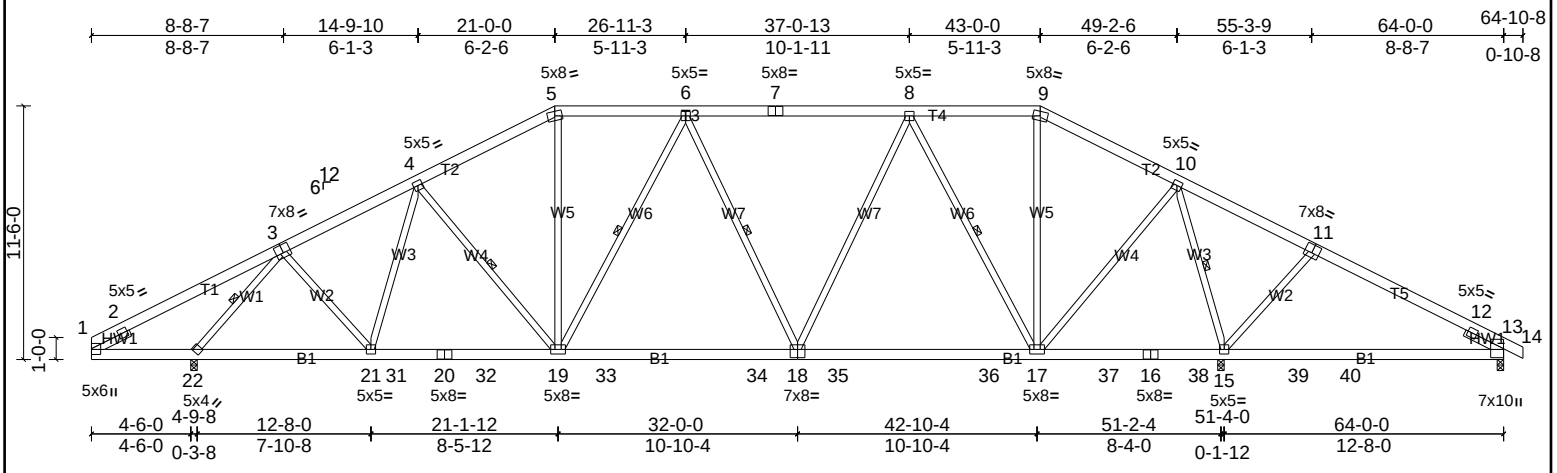


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [11:0-4-0,0-4-8], [13:0-4-14,0-0-1], [18:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	0.20	15-29	>777	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.28	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.07	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 500 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* T5:2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-9-2 oc purlins, except 2-0-0 oc purlins (4-6-12 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 1-22,13-15.
WEBS	1 Row at midpt 3-22, 4-19, 6-19, 10-15, 8-17, 6-18

REACTIONS (lb/size) 13=496/0-3-8, (min. 0-1-8), 15=2438/0-3-8, (min. 0-3-1), 22=2238/0-3-8, (min. 0-2-10)
Max Horiz 22=-199 (LC 11)
Max Uplift 13=-165 (LC 6), 15=-249 (LC 6), 22=-261 (LC 10)
Max Grav 13=524 (LC 22), 15=2591 (LC 2), 22=2238 (LC 1)

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

TOP CHORD	1-2=-448/663, 2-3=-206/419, 3-4=-2096/582, 4-5=-2183/682, 5-6=-1893/661, 6-7=-2011/690, 7-8=-2011/690, 8-9=-1208/571, 9-10=-1422/581, 10-11=-105/377, 11-12=-311/429, 12-13=-637/488
BOT CHORD	1-22=-275/278, 21-22=-244/1363, 21-31=-244/1894, 20-31=-244/1894, 20-32=-244/1894, 19-32=-244/1894, 19-33=-256/2064, 33-34=-256/2064, 18-34=-256/2064, 18-35=-203/1746, 35-36=-203/1746, 17-36=-203/1746, 17-37=-88/438, 16-37=-88/438, 16-38=-88/438, 15-38=-88/438, 15-39=-251/278, 39-40=-251/278, 13-40=-251/278
WEBS	5-19=-146/700, 9-17=-99/394, 11-15=-475/360, 3-21=-13/683, 3-22=-2501/796, 4-21=-355/142, 6-19=-508/253, 8-18=-2/666, 10-17=-95/1246, 10-15=-1967/265, 8-17=-1197/284, 6-18=-272/154

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at joint 13, 249 lb uplift at joint 15 and 261 lb uplift at joint 22.
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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A6	Truss	6	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:31 — Page: 1

ID:kiUWkR3qE6VC0lws3qT2j7yRXv0-JdutPP6y59M53ktVHGz5ZOt5x7I02Myqu9HUcnyQbuo

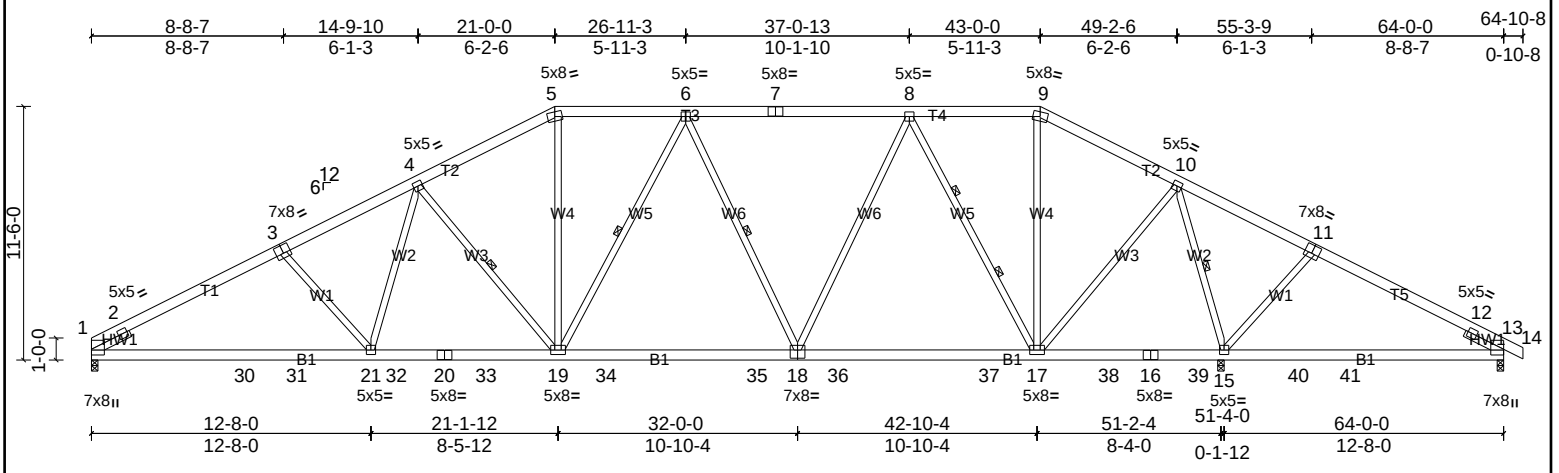


Plate Offsets (X, Y): [3:0-4-0,0-4-8], [11:0-4-0,0-4-8], [18:0-4-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	0.21	15-28	>732	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.40	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.10	15	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 491 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 2-4-8 oc purlins, except 2-0-0 oc purlins (4-3-9 max.): 5-9.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-19, 6-19, 6-18, 10-15
WEBS	2 Rows at 1/3 pts 8-17

REACTIONS (lb/size) 1=1993/0-3-8, (min. 0-2-6), 13=317/0-3-8, (min. 0-1-8), 15=2862/0-3-8, (req. 0-3-9)
Max Horiz 1=-199 (LC 15)
Max Uplift 1=-233 (LC 10), 13=-159 (LC 6), 15=-257 (LC 6)
Max Grav 1=2036 (LC 2), 13=392 (LC 22), 15=3039 (LC 2)

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

TOP CHORD 1-2=-1645/78, 2-3=-3522/944, 3-4=-3295/917, 4-5=-2724/843, 5-6=-2375/804, 6-7=-2243/764, 7-8=-2243/764, 8-9=-1186/576, 9-10=-1397/587, 10-11=-51/598, 11-12=-64/433, 12-13=-550/441

BOT CHORD 1-30=-679/3051, 30-31=-679/3051, 21-31=-679/3051, 21-32=-499/2790, 20-32=-499/2790, 20-33=-499/2790, 19-33=-499/2790, 19-34=-346/2413, 34-35=-346/2413, 18-35=-346/2413, 18-36=-239/1859, 36-37=-239/1859, 17-37=-239/1859, 17-38=-40/263, 16-38=-40/263, 16-39=-40/263, 15-39=-40/263, 15-40=-328/104, 40-41=-328/104, 13-41=-328/104

WEBS 3-21=-295/254, 4-21=-66/483, 4-19=-697/318, 5-19=-223/951, 6-19=-318/250, 6-18=-535/198, 8-18=-57/946, 8-17=-1485/353, 9-17=-101/382, 10-17=-122/1580, 10-15=-2398/371, 11-15=-496/364

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) WARNING: Required bearing size at joint(s) 15 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 1, 257 lb uplift at joint 15 and 159 lb uplift at joint 13.
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.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	A6G	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:31 — Page: 1

ID:5TshUaky2JYFkMCcLaTA_wyRXu8-JdutPP6y59M53ktVHGz5ZOt9b7Hb2R2qu9HUcnyQbuo

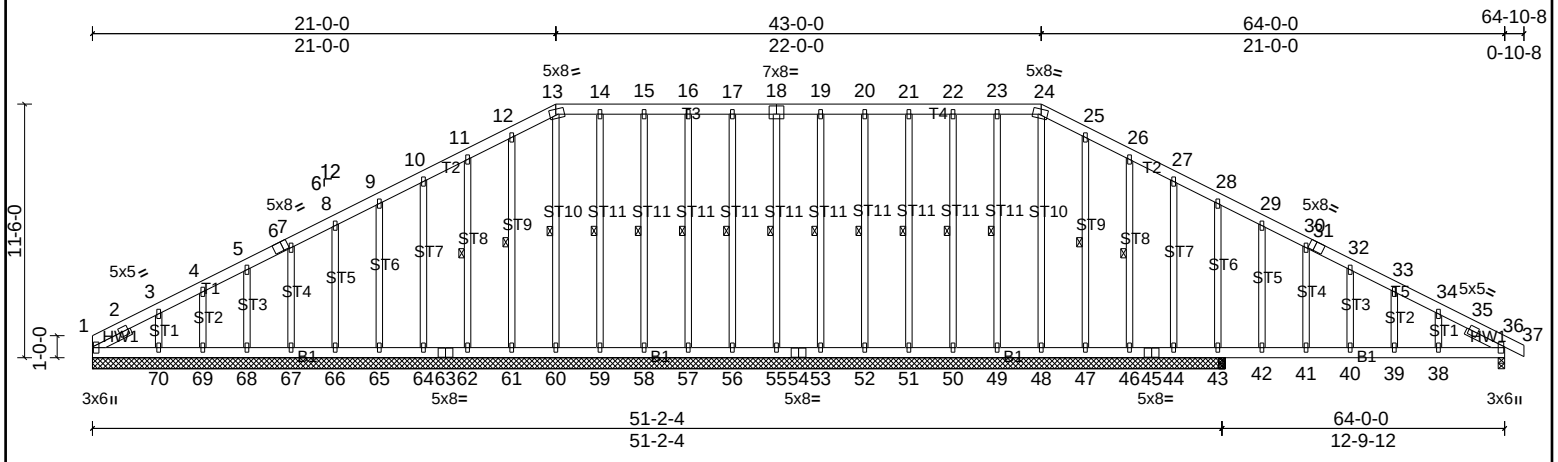


Plate Offsets (X, Y): [1:0-3-6,0-0-8], [6:0-3-2,Edge], [13:0-4-0,Edge], [18:0-4-0,0-4-8], [24:0-4-0,Edge], [31:0-3-2,Edge], [36:0-3-6,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	0.34	39-40	>454	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.42	39-40	>375	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.04	36	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 658 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
OTHERS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 13-24.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 18-55, 19-53, 17-56, 16-57, 15-58, 14-59, 13-60, 12-61, 11-62, 20-52, 21-51, 22-50, 23-49, 25-47, 26-46

REACTIONS All bearings 51-4-0. except 36=0-3-8

(lb) - Max Horiz 1=-199 (LC 11), 71=-199 (LC 11)

Max Uplift All uplift 100 (lb) or less at joint(s) 47, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69 except 1=-125 (LC 6), 36=-152 (LC 6), 43=-525 (LC 11), 44=-798 (LC 22), 46=-127 (LC 11), 70=-144 (LC 10), 71=-125 (LC 6)

Max Grav All reactions 250 (lb) or less at joint(s) 47, 48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 70 except 1=360 (LC 1), 36=666 (LC 1), 43=1496 (LC 22), 44=289 (LC 11), 46=347 (LC 22), 71=360 (LC 1)

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

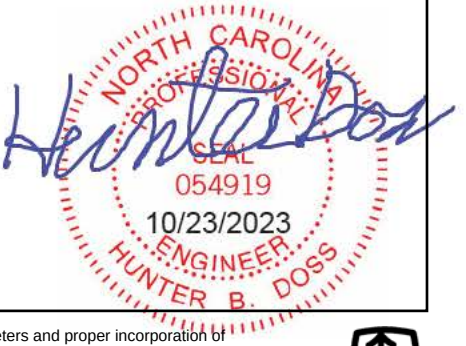
TOP CHORD 2-3=-477/233, 3-4=-433/286, 4-5=-435/335, 5-6=-435/379, 6-7=-396/385, 7-8=-435/435, 8-9=-435/484, 9-10=-434/534, 10-11=-435/584, 11-12=-438/639, 12-13=-429/673, 13-14=-365/630, 14-15=-365/630, 15-16=-365/630, 16-17=-365/630, 17-18=-365/630, 18-19=-365/630, 19-20=-365/630, 20-21=-365/630, 21-22=-365/630, 22-23=-365/630, 23-24=-365/630, 24-25=-430/673, 25-26=-434/636, 26-27=-422/577, 27-28=-570/652, 28-29=-343/411, 29-30=-347/359, 30-31=-349/346, 31-32=-392/337, 32-33=-419/323, 33-34=-453/303, 34-35=-444/279, 35-36=-412/323

BOT CHORD 1-70=-130/365, 69-70=-130/365, 68-69=-130/365, 67-68=-130/365, 66-67=-130/365, 65-66=-130/365, 64-65=-130/365, 63-64=-130/365, 62-63=-130/365, 61-62=-130/365, 60-61=-130/365, 59-60=-130/365, 58-59=-130/365, 57-58=-130/365, 56-57=-130/365, 55-56=-130/365, 54-55=-130/365, 53-54=-130/365, 52-53=-130/365, 51-52=-130/365, 50-51=-130/365, 49-50=-130/365, 48-49=-130/365, 47-48=-130/365, 46-47=-130/365, 45-46=-130/365, 44-45=-130/365, 43-44=-130/365, 42-43=-130/365, 41-42=-130/365, 40-41=-130/365, 39-40=-130/365, 38-39=-130/365, 36-38=-130/365

WEBS 28-43=-617/516

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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.
4) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x5 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 55, 53, 56, 57, 58, 59, 60, 61, 62, 64, 65, 66, 67, 68, 69, 52, 51, 50, 49, 48, 47 except (jt=lb) 1=125, 70=143, 46=126, 44=797, 43=525, 36=152, 1=125.
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.



This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

Continued on page 2

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	B1	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:32 — Page: 1

ID:I6uOAvYUPbnLZ0xCxJeaOsyRXqW-oqSFdl6asSVyguShr_VK6bPLuXiInr6z6p028DyQbun

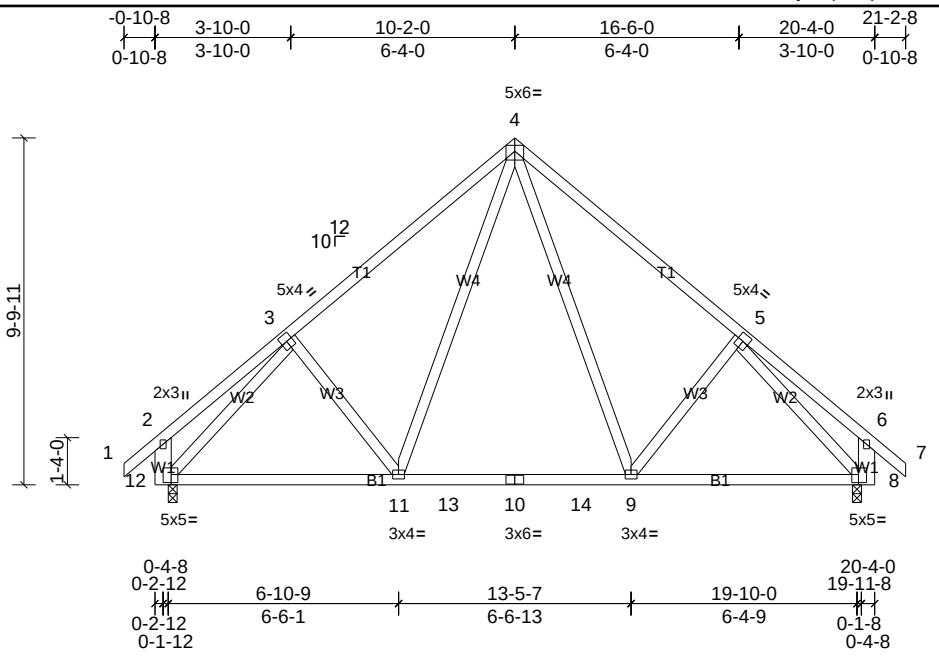


Plate Offsets (X, Y): [8:0-2-4,0-2-12], [12:0-2-4,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.10	9-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.13	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 137 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W1:2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 5-4-1 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 9-9-7 oc bracing.

REACTIONS (lb/size) 8=861/0-3-0, (min. 0-1-8), 12=861/0-3-0, (min. 0-1-8)
Max Horiz 12=283 (LC 9)
Max Uplift 8=-107 (LC 11), 12=-107 (LC 10)

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

TOP CHORD	3-4=-786/733, 4-5=-786/733
BOT CHORD	11-12=-329/656, 11-13=-109/445, 10-13=-109/445, 10-14=-109/445, 9-14=-109/445, 8-9=-329/582
WEBS	3-12=-845/491, 5-8=-845/491, 3-11=-226/250, 4-11=-395/302, 4-9=-395/302, 5-9=-226/250

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Bearing at joint(s) 12, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 12 and 107 lb uplift at joint 8.
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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	B1G	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:32 — Page: 1

ID:CaPAhPedQ3ifRlEe7smNRYyRXno-oqSFdl6asSVyguShr_VK6bPQuXm4n_Oz6p028DyQbun

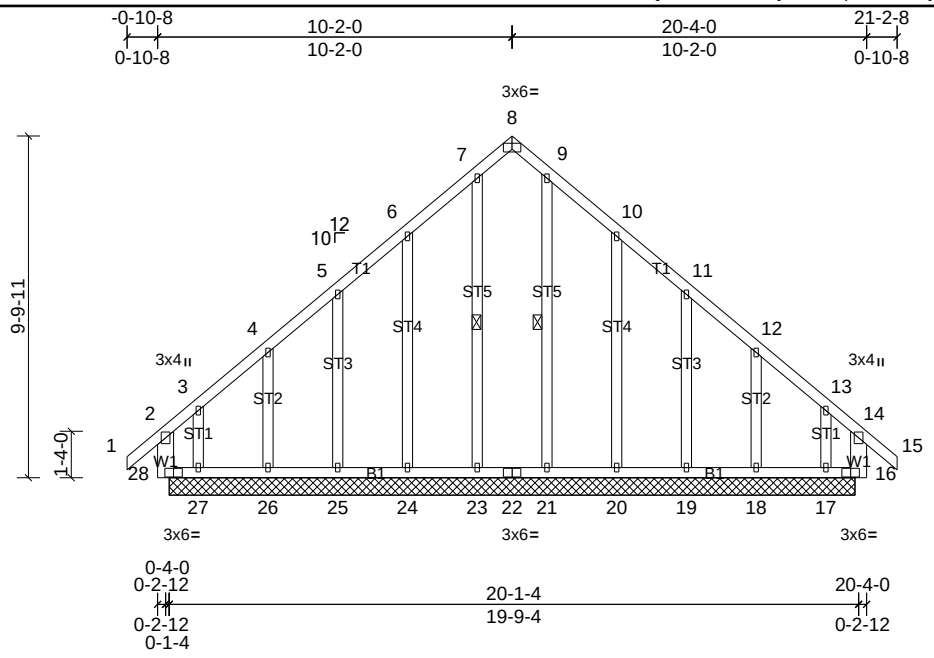


Plate Offsets (X, Y): [8:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 154 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 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 7-23, 9-21

REACTIONS All bearings 19-8-0.

(lb) - Max Horiz 28=283 (LC 9)

Max Uplift All uplift 100 (lb) or less at joint(s) 18, 19, 25, 26 except 16=-193 (LC 9), 17=-322 (LC 11), 20=-128 (LC 11), 24=-126 (LC 10), 27=-336 (LC 10), 28=-239 (LC 8)

Max Grav All reactions 250 (lb) or less at joint(s) 18, 19, 20, 21, 23, 24, 25, 26 except 16=327 (LC 11), 17=276 (LC 9), 27=308 (LC 8), 28=350 (LC 7)

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

TOP CHORD 2-3=-286/219, 13-14=-270/183

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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.
4) All plates are 1.5x3 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 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) Bearing at joint(s) 28, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 25, 26, 19, 18 except (jt=lb) 28=239, 16=192, 24=125, 27=335, 20=127, 17=322.
12) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 28, 16.
13) 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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	PB1	Truss	19	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:32 — Page: 1

ID:iXMRcyzKCVD8gmjJ2F2MUhyRYim-oqSFdl6asSVyguShr_VK6bPLvXlfn?lz6p028DyQbun

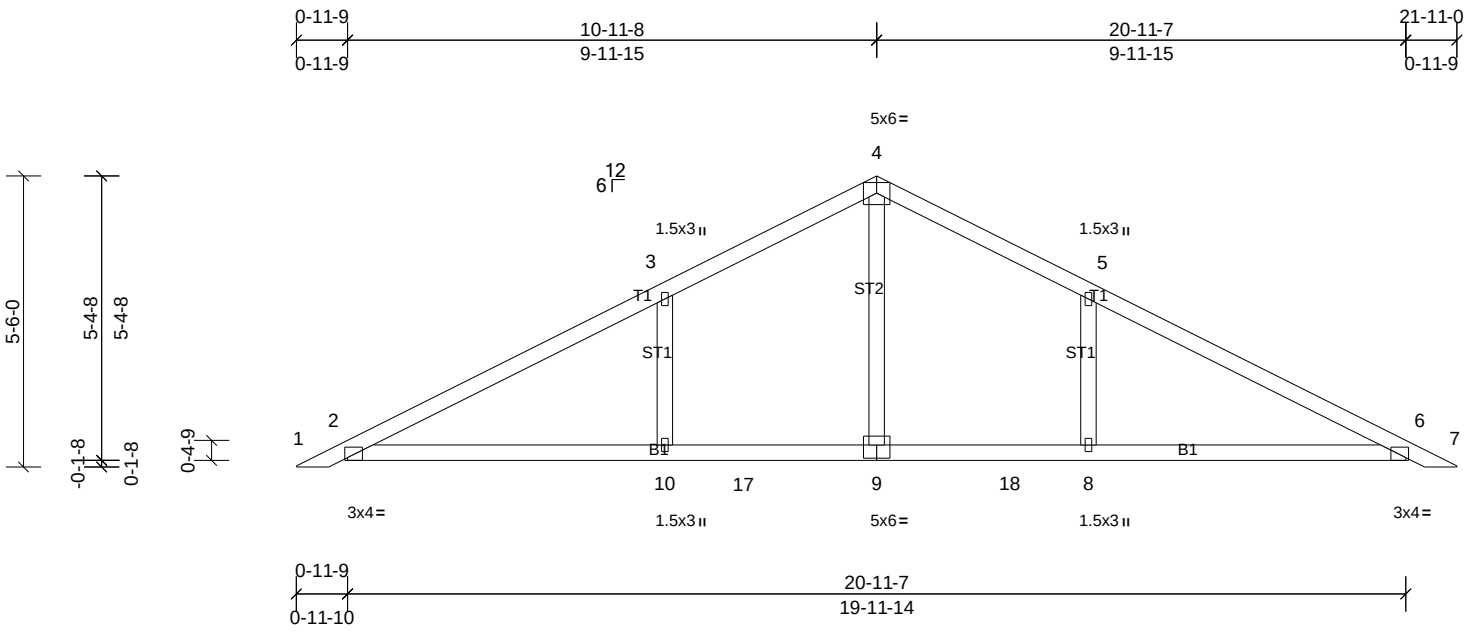


Plate Offsets (X, Y): [2:0-3-6,Edge], [6:0-3-6,Edge], [9:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 82 lb	FT = 20%

LUMBER

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

REACTIONS All bearings 22-0-0.

(lb) - Max Horiz 1=93 (LC 10)

Max Uplift All uplift 100 (lb) or less at joint(s) except 1=-317 (LC 1), 2=-182 (LC 10), 6=-166 (LC 11), 7=-314 (LC 1), 8=-150 (LC 11), 10=-150 (LC 10), 11=-182 (LC 10), 14=-166 (LC 11)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 2=650 (LC 1), 6=636 (LC 1), 8=440 (LC 22), 9=307 (LC 20), 10=441 (LC 21), 11=650 (LC 1), 14=636 (LC 1)

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

WEBS 3-10=-324/228, 5-8=-323/228

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 4-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 1, 313 lb uplift at joint 7, 181 lb uplift at joint 2, 149 lb uplift at joint 10, 149 lb uplift at joint 8, 165 lb uplift at joint 6, 181 lb uplift at joint 2 and 165 lb uplift at joint 6.
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) See standard piggyback truss connection detail for connection to base truss.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	PB1G	Truss	2	1	Job Reference (optional)

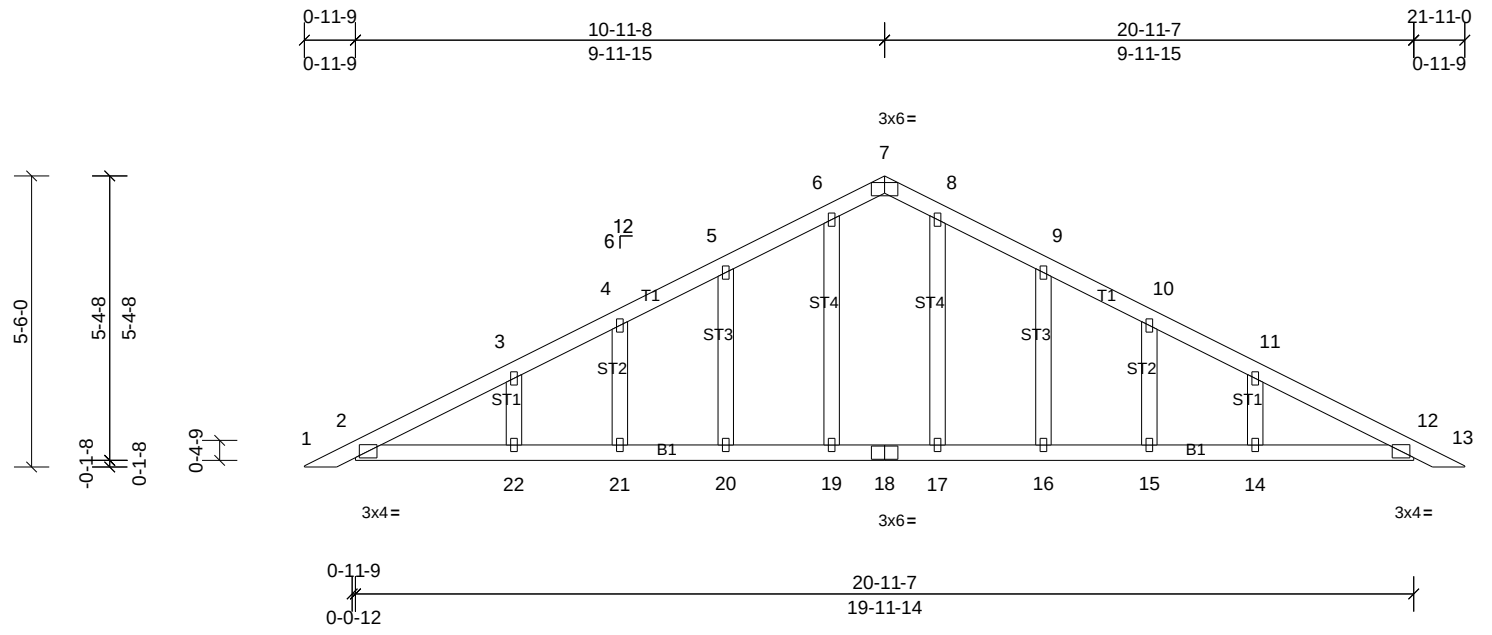


Plate Offsets (X, Y): [7:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 100 lb	FT = 20%

LUMBER

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

REACTIONS All bearings 20-1-6.

(lb) - Max Horiz 2=93 (LC 14), 23=93 (LC 14)
Max Uplift All uplift 100 (lb) or less at joint(s) 14, 15, 16, 19, 20, 21, 22
Max Grav All reactions 250 (lb) or less at joint(s) 2, 12, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26

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

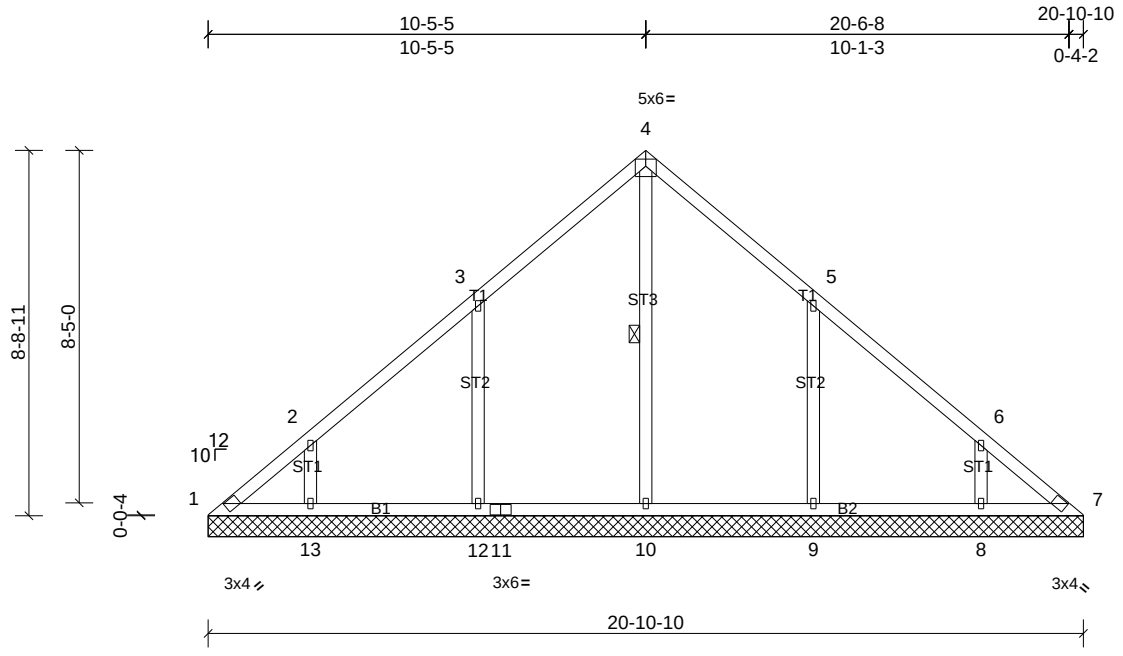
NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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.
4) All plates are 1.5x3 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 20, 21, 22, 16, 15, 14.
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.
11) See standard piggyback truss connection detail for connection to base truss.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V1	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:33 — Page: 1

ID:A6fw_OBA2Ieq4KIIhYjTc8yRXyj-G00dq57CdmdpI11tPh0ZfpyaQx64WRs7LTmbhfyQbum



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 101 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP 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 4-10

REACTIONS All bearings 20-10-10.

(lb) - Max Horiz 1=221 (LC 7)

Max Uplift All uplift 100 (lb) or less at joint(s) 1, 7 except 8=-126 (LC 11), 9=-203 (LC 11), 12=-202 (LC 10), 13=-132 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 7 except 8=296 (LC 18), 9=444 (LC 18), 10=416 (LC 20), 12=443 (LC 17), 13=302 (LC 17)

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

WEBS 3-12=-320/250, 5-9=-320/250

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) All plates are 1.5x3 MT20 unless otherwise indicated.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=202, 13=131, 9=202, 8=126.
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.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V2	Truss	1	1	Job Reference (optional)

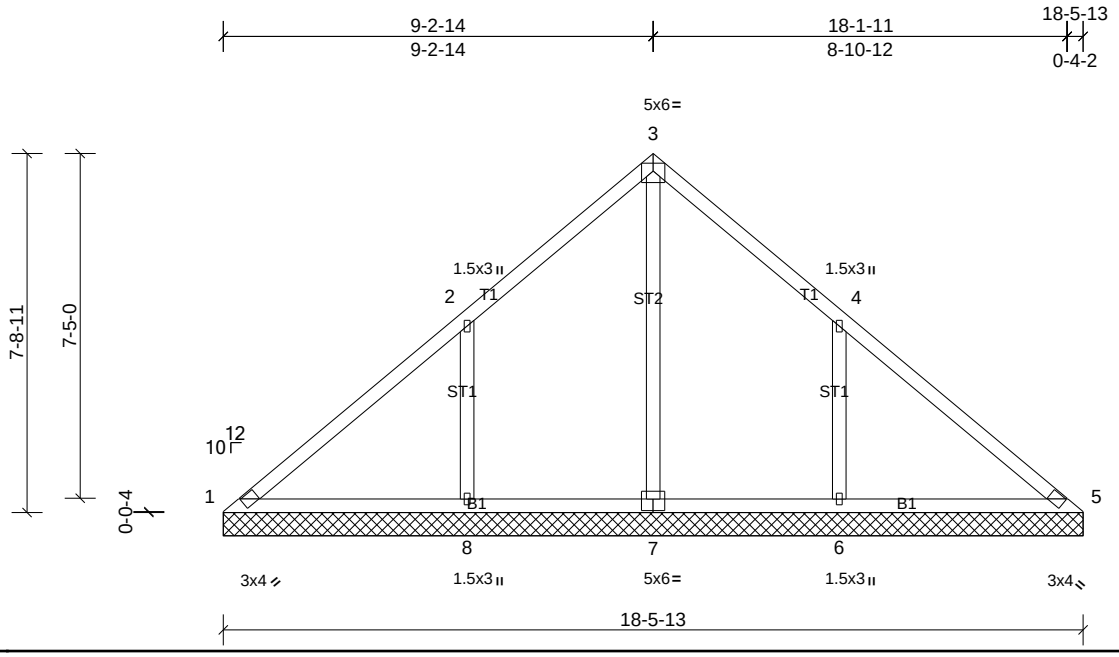


Plate Offsets (X, Y): [7:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horiz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 84 lb	FT = 20%

LUMBER

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

REACTIONS All bearings 18-5-13.

(lb) - Max Horiz 1=-195 (LC 6)
Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-239 (LC 11), 8=-242 (LC 10)
Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=546 (LC 18), 7=539 (LC 17), 8=549 (LC 17)

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

TOP CHORD 1-2=-190/314, 4-5=-143/263
WEBS 3-7=-384/2, 2-8=-370/272, 4-6=-370/271

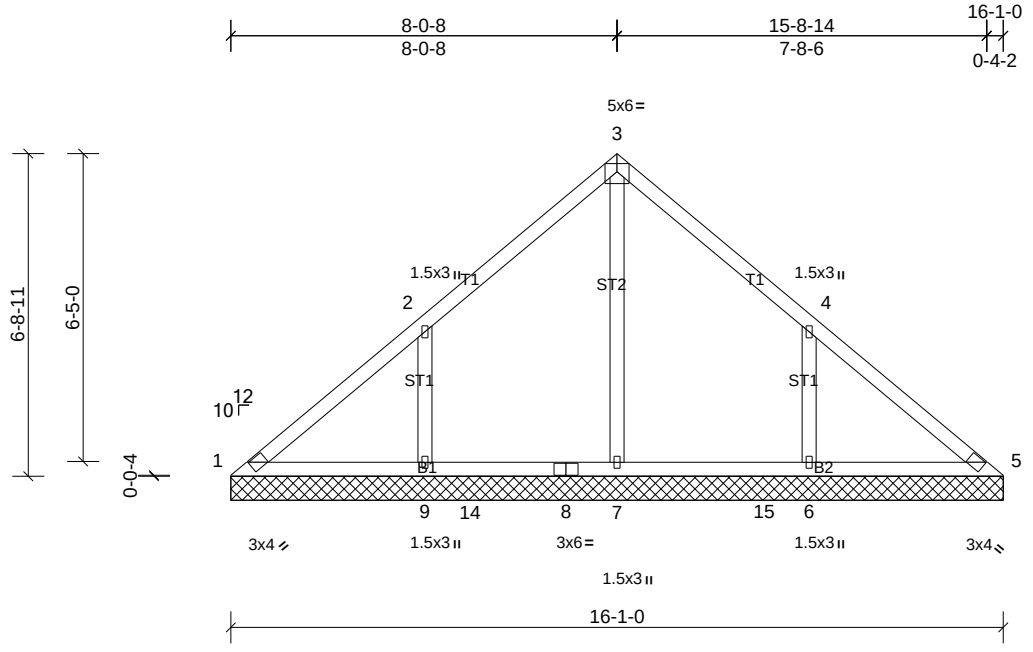
NOTES

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 except (jt=lb) 8=242, 6=239.
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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V3	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:33 — Page: 1

ID:iGkgd7CsG6Dv9EjScBD90syRXxP-G00dq57CdmdpI11tPh0ZfpyarX6OWQv7LTmbhfyQbum



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 71 lb	FT = 20%

LUMBER

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

REACTIONS All bearings 16-1-0.

(lb) - Max Horiz 1=-169 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-202 (LC 11), 9=-205 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=445 (LC 18), 7=451 (LC 17), 9=449 (LC 17)

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

WEBS 3-7=-275/0, 2-9=-320/238, 4-6=-320/236

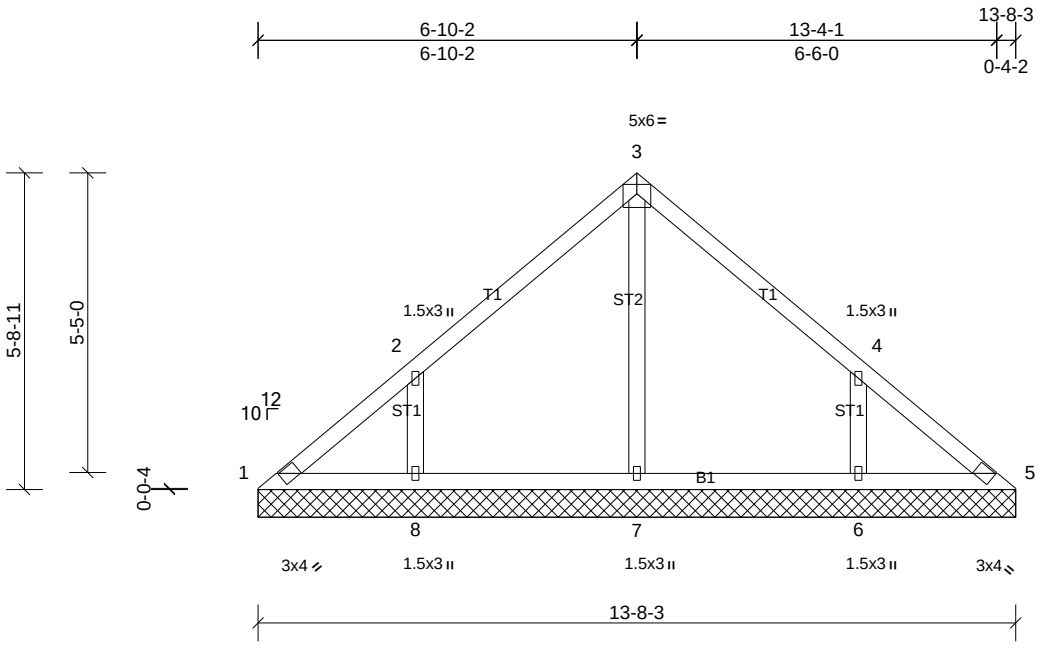
NOTES

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 except (jt=lb) 9=205, 6=201.
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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V4	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:33 — Page: 1

ID:f?VZttFRmqBZ5ctACzHZ1CyRXw2-G00dq57CdmdpI11tPh0Zfpybex7DWSZ7LTmbhfyQbum



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 58 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP 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 6-0-0 oc bracing.

REACTIONS All bearings 13-8-3.

(lb) - Max Horiz 1=-143 (LC 6)

Max Uplift All uplift 100 (lb) or less at joint(s) 1 except 6=-172 (LC 11), 8=-176 (LC 10)

Max Grav All reactions 250 (lb) or less at joint(s) 1, 5 except 6=354 (LC 18), 7=274 (LC 1), 8=358 (LC 17)

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

WEBS 2-8=-289/217, 4-6=-289/215

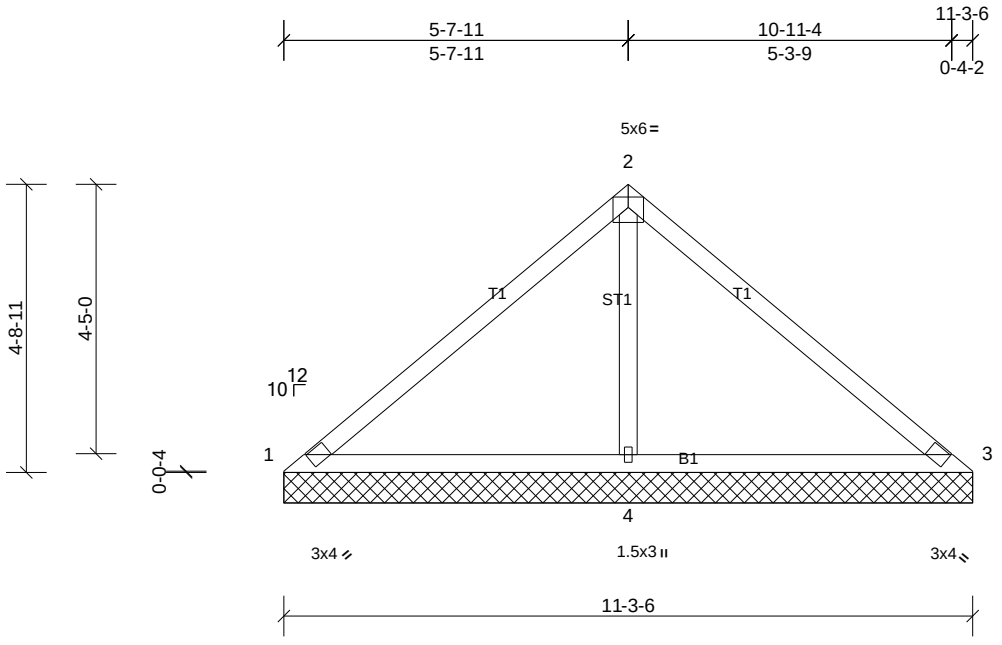
NOTES

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit 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 except (jt=lb) 8=175, 6=172.
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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V5	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:33 — Page: 1

ID:8C3x5CG3X8JQjmSMlgooaPyRXw1-G00dq57CdmdpI11tPh0ZfpyXWx3sWPy7LTmbhfyQbum



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.33	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.28	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 43 lb	FT = 20%

LUMBER

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

REACTIONS (lb/size) 1=4/11-3-6, (min. 0-1-8), 3=4/11-3-6, (min. 0-1-8), 4=894/11-3-6, (min. 0-1-8)

Max Horiz 1=117 (LC 7)

Max Uplift 1=-54 (LC 22), 3=-54 (LC 21), 4=-191 (LC 10)

Max Grav 1=59 (LC 21), 3=61 (LC 10), 4=894 (LC 1)

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

TOP CHORD	1-2=-148/404, 2-3=-148/404
BOT CHORD	1-4=-338/202, 3-4=-338/202
WEBS	2-4=-700/302

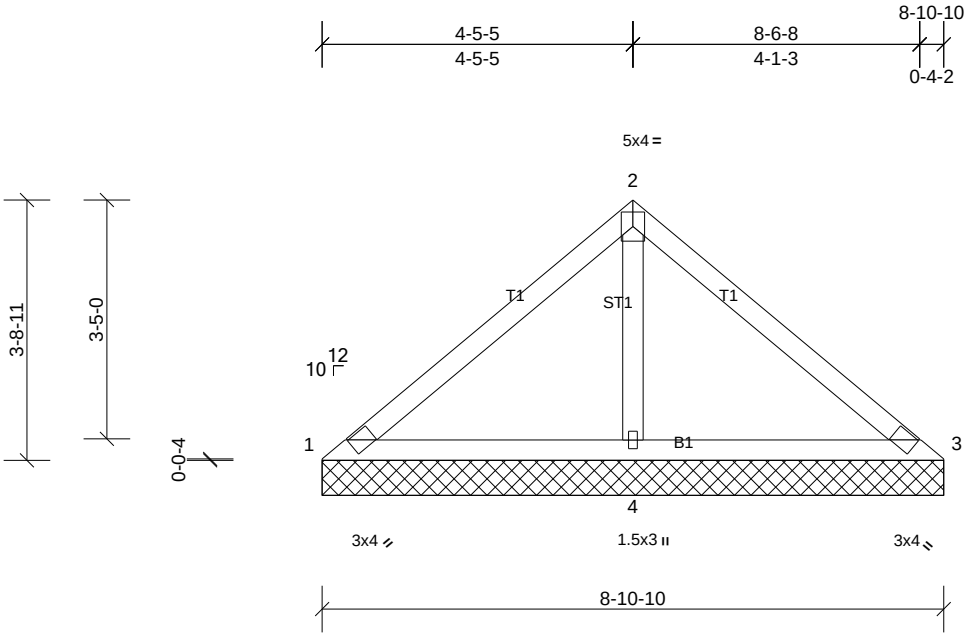
NOTES

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 54 lb uplift at joint 3 and 191 lb uplift at joint 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.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V6	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:33 — Page: 1

ID:8C3x5CG3X8JQjmSMlgooaPyRXw1-G00dq57CdmdpI11tPh0Zfpya5x5hWRE7LTmbhfyQbum



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 34 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD	Structural wood sheathing directly applied or 8-10-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=40/8-10-10, (min. 0-1-8), 3=40/8-10-10, (min. 0-1-8), 4=631/8-10-10, (min. 0-1-8)

Max Horiz 1=91 (LC 7)

Max Uplift 1=-15 (LC 22), 3=-15 (LC 21), 4=-121 (LC 10)

Max Grav 1=73 (LC 21), 3=73 (LC 22), 4=631 (LC 1)

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

TOP CHORD 1-2=-84/259, 2-3=-84/259

WEBS 2-4=-473/200

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 15 lb uplift at joint 3 and 121 lb uplift at joint 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.

Job	Truss	Truss Type	Qty	Ply	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V7	Truss	1	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, Gina Tolley — Run: 8.62 S Sep 22 2022 Print: 8.620 S Sep 22 2022 MiTek Industries, Inc. Mon Oct 23 08:21:34 — Page: 1

ID:J7oN5P0yxB7d9IBHOhwL5UyRXv3-kCZ?2R8qO4lgwBc3zPXoB0VkzLRNFwXGa7V9D6yQbul

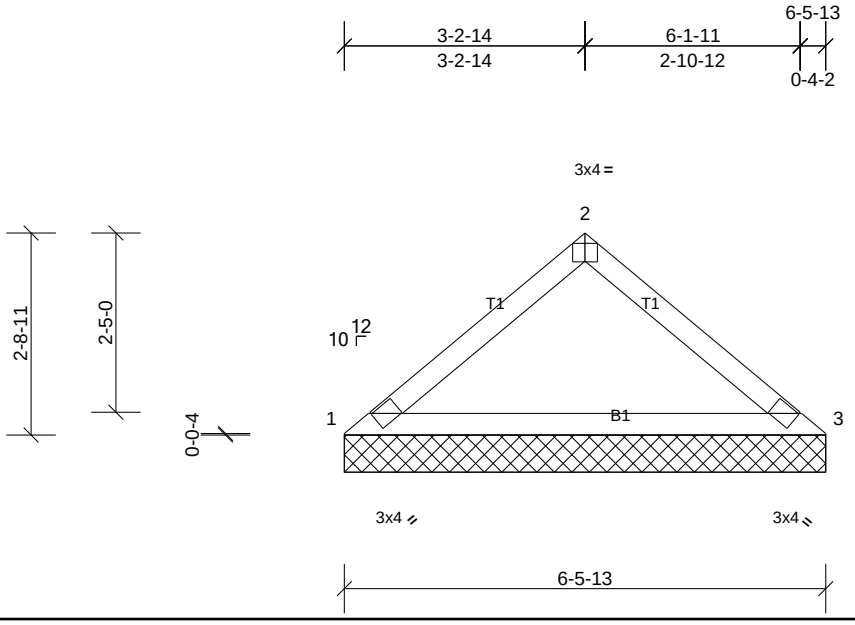


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 21 lb	FT = 20%

LUMBER

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

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.

REACTIONS (lb/size) 1=259/6-5-13, (min. 0-1-8), 3=259/6-5-13, (min. 0-1-8)
Max Horiz 1=-65 (LC 6)
Max Uplift 1=-30 (LC 10), 3=-30 (LC 11)

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

TOP CHORD	1-2=-377/83
BOT CHORD	1-3=-62/293

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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 30 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	Prof - CLAYTON LOW COUNTRY ROOF
72338972	V8	Truss	1	1	Job Reference (optional)

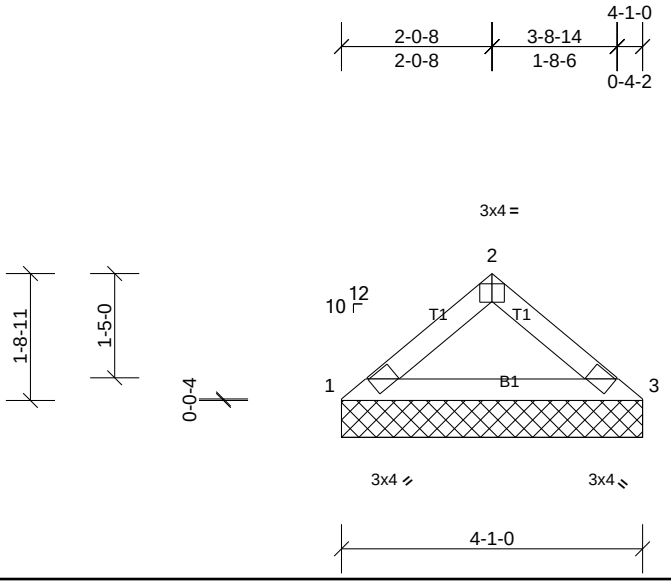


Plate Offsets (X, Y): [2:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 13 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-1-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=163/4-1-0, (min. 0-1-8), 3=163/4-1-0, (min. 0-1-8)
Max Horiz 1=-40 (LC 6)
Max Uplift 1=-20 (LC 10), 3=-20 (LC 11)

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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 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) 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 where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 20 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.