

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 32379-32379A 50 SERENITY - roof

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I54792723 thru I54792761

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

North Carolina COA: C-0844



October 19,2022

Gilbert, Eric

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

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:43:54 2022 Page 1

Structural wood sheathing directly applied or 4-5-1 oc purlins,

4-32, 8-21

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

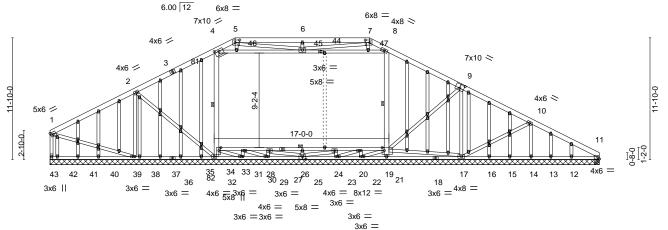
except end verticals.

1 Row at midpt

10-0-0 oc bracing: 21-32

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-RvZusbZ7O5dZJPZVbKaGvSt61VWblS9merlnZByS6FJ 46-9-6

Scale = 1:112.0



NON-STRUCTURAL STUD(S) SHOWN DASHED FOR TRUSS HANDLING. TO BE REMOVED AFTER TRUSS IS INSTALLED.

8-2-14	16-2-4							53-5-0	
8-2-14	7-11-6	2-6-10 2-5-10	3-4-1	3-3-4 2-5-0 2-	6-0 7-3-4		6-9-6	6-7-10	
[4:0-5-0,0-2-4], [5:0-5-4,0	0-3-0], [7:0-5-4,	0-3-0], [9:0-5-0,)-4-8], [21	1:0-2-8,Edge], [26	:0-4-0,0-3-0], [3	32:Edge,	0-2-4], [57:0-1	-10,0-1-0], [59:0-1-10	,0-1-0],
[74:0-1-15,0-1-0], [76:0-1	1-15,0-1-0]								
SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Plate Grip DOL	1.15	TC 0.	10	Vert(LL)	-0.05 17-19	>999	240	MT20	197/144
Lumber DOL	1.15	BC 0.	36	Vert(CT)	-0.11 17-19	>822	180		
Rep Stress Incr	YES	WB 0.	16	Horz(CT)	0.01 11	n/a	n/a		
Code IRC2015/T	PI2014	Matrix-S		, ,				Weight: 593 lb	FT = 20%
	[4:0-5-0,0-2-4], [5:0-5-4,1 [74:0-1-15,0-1-0], [76:0-7 SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	8-2-14 7-11-6 [4:0-5-0,0-2-4], [5:0-5-4,0-3-0], [7:0-5-4, [74:0-1-15,0-1-0], [76:0-1-15,0-1-0] SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	8-2-14	8-2-14	8-2-14	8-2-14	8-2-14	8-2-14	8-2-14

TOP CHORD

LUMBER-BRACING-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.2 or 2x4 SPF No.2 *Except*

OTHERS

BOT CHORD 4-33,8-19: 2x6 SP No.2, 1-43: 2x4 SP No.3 2x4 SP No.2 or 2x4 SPF No.2 **WEBS**

REACTIONS. All bearings 53-5-0.

Max Horz 43=-210(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 43, 33, 17, 11, 14, 38, 42 except

39=-112(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 11, 11, 34, 35, 37, 38, 40, 41, 42, 16, 15, 13, 12 except 43=449(LC 22), 39=637(LC 22), 33=771(LC 1)

19=791(LC 23), 17=586(LC 1), 26=439(LC 16), 28=379(LC 16), 24=385(LC 16),

31=349(LC 16), 20=294(LC 16), 14=579(LC 1)

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

TOP CHORD 1-2=-390/117, 2-4=-497/202, 4-5=-893/190, 5-6=-2190/473, 6-7=-2190/473,

7-8=-916/205, 8-9=-515/220, 9-10=-403/144, 10-11=-251/67, 1-43=-408/123 BOT CHORD 38-39=-51/303, 37-38=-51/303, 35-37=-51/303, 34-35=-51/303, 33-34=-51/303,

31-33=-10/262, 19-20=0/256

WFBS 2-39=-629/193. 32-33=-788/60. 32-81=-760/145. 4-81=-583/130. 19-21=-677/48.

8-21=-722/118. 9-17=-533/153. 25-26=-386/0. 28-29=-320/0. 23-24=-315/0. 4-46=-7/357, 45-46=-4/373, 45-47=-31/411, 8-47=-36/409, 6-45=-323/135, 30-31=-298/0, 20-22=-273/0, 5-45=-332/1539, 7-45=-307/1468, 10-14=-538/175

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Ceiling dead load (5.0 psf) on member(s). 4-46, 45-46, 45-47, 8-47; Wall dead load (5.0 psf) on member(s).32-81, 4-81, 8-21
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 30-32, 29-30, 25-29, 23-25, 22-23, 21-22
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 33, 17, 11, 14, Confibuted except (italb) 39=112.



October 19,2022

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

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

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



Job	Truss	Truss Type	Qty	Ply	50 SERENITY - roof	٦
					154792723	3
32379-32379A	A1E	ROOF TRUSS	1	1		
					Job Reference (optional)	

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:43:55 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-v57H3xal9OlQwZ8h915VSgQHnusqUvPwtVUL5eyS6FI

10) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty 50 SERENITY - roof 154792724 **ROOF TRUSS** 32379-32379A A2 6 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:43:57 2022 Page 1

Structural wood sheathing directly applied or 3-2-9 oc purlins,

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

9-17

except end verticals.

2-2-0 oc bracing: 29-31

3-11-3 oc bracing: 15-16

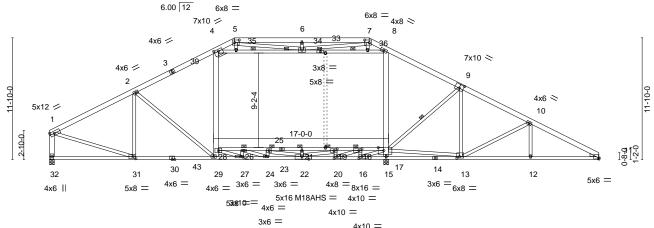
4-3-8 oc bracing: 13-15.

3-1-0 oc bracing: 17-28

1 Row at midpt 3-3-0 oc bracing: 4-8

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-sUF1Udc0g0?7Atl4HS8zX5VbTiPByiBCKpzRAWyS6FG 31-1-0 32-8-12 1-7-12 6-6-8

Scale = 1:112.0



NON-STRUCTURAL STUD(S) SHOWN DASHED FOR TRUSS HANDLING. TO BE REMOVED AFTER TRUSS IS INSTALLED.

> 27-9-12 26-10-0 2-3-8 30-2-12 32-8-12 2-5-0 2-6-0 0-11-12

Plate Offsets (X,Y)--[4:0-5-0,0-2-4], [5:0-5-4,0-3-0], [7:0-5-4,0-3-0], [9:0-5-0,0-4-8], [11:0-0-0,0-1-3], [13:0-3-0,0-1-12], [16:0-3-8,0-2-0], [17:0-6-8,Edge], [18:0-3-8,0-2-0], [19:0-3-8,0-2-0], [20:0-3-8,0-2-0], [22:0-8-0,0-3-0], [27:0-3-8,0-1-8], [31:0-3-8,0-2-8]

		[], []	[0], [0.10 0 0,0 = 0]	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.35 21-25 >999 240	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.66 24-27 >589 180	M18AHS 142/136
BCLL	0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.14 11 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.25 17-28 776 360	Weight: 467 lb FT = 20%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD 2x6 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*

11-14,14-22: 2x4 SP No.1, 22-30: 2x4 SP DSS

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

4-29,8-15,1-32: 2x6 SP No.2, 8-33,4-33,13-17: 2x4 SP No.1

OTHERS 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

BOT CHORD

REACTIONS.

(size) 32=0-5-8, 15=0-5-8, 11=Mechanical

Max Horz 32=-202(LC 11)

Max Grav 32=2469(LC 24), 15=1382(LC 25), 11=1967(LC 2)

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

1-2=-3141/48, 2-4=-3319/40, 4-5=-1306/127, 5-6=-2218/456, 6-7=-2218/456, TOP CHORD 7-8=-1575/157, 8-9=-3210/62, 9-10=-3310/155, 10-11=-3701/183, 1-32=-2398/77

29-31=0/2732, 27-29=0/2955, 24-27=0/4194, 22-24=0/5025, 20-22=0/3219, 16-20=0/964, 15-16=-1856/0, 13-15=-1662/0, 12-13=-90/3212, 11-12=-90/3212, 26-28=-1630/0,

25-26=-2626/0, 21-25=-2534/0, 19-21=-2534/0, 18-19=-820/670, 17-18=0/1939

2-31=-595/81, 2-29=0/330, 28-39=0/846, 4-39=0/731, 15-17=-1102/75, 8-17=-13/861,

9-17=-445/287, 9-13=-275/102, 1-31=0/2771, 21-22=-381/0, 24-25=-280/3, 19-20=-755/0, 22-25=-297/40, 19-22=0/1774, 4-35=-1726/46, 34-35=-1699/48,

34-36=-1518/3, 8-36=-1615/0, 6-34=-313/136, 26-27=-639/0, 27-28=0/1699,

24-26=0/1056, 16-18=-1133/0, 18-20=0/2449, 16-17=0/2971, 7-36=0/489, 13-17=0/4290,

5-34=-433/1099, 7-34=-458/1060, 10-13=-464/170

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) All plates are 2x4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Ceiling dead load (5.0 psf) on member(s). 4-35, 34-35, 34-36, 8-36; Wall dead load (5.0 psf) on member(s). 28-39, 4-39, 8-17
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-28, 25-26, 21-25, 19-21,

Control ed 157-page 2



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Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	50 SERENITY - roof
					154792724
32379-32379A	A2	ROOF TRUSS	6	1	
					Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:43:57 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-sUF1Udc0g0?7Atl4HS8zX5VbTiPByiBCKpzRAWyS6FG

10) Refer to girder(s) for truss to truss connections.

11) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 50 SERENITY - roof 154792725 **ROOF TRUSS** 32379-32379A **A3** Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:43:59 2022 Page 1

Structural wood sheathing directly applied or 3-2-8 oc purlins,

10-18

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

except end verticals.

2-2-0 oc bracing: 30-32

3-11-2 oc bracing: 16-17

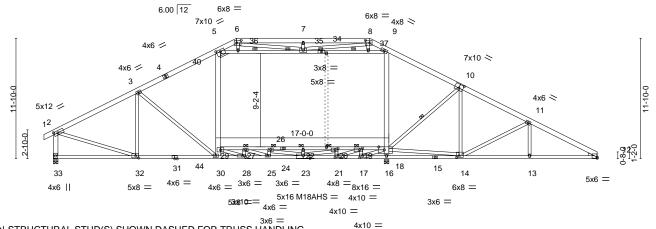
4-3-8 oc bracing: 14-16.

3-2-0 oc bracing: 18-29

1 Row at midpt 3-3-0 oc bracing: 5-9

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-osMnvldGCdFrPARSOtARcWawwW4fQbYVo7SYEPyS6FE

Scale = 1:113.1



NON-STRUCTURAL STUD(S) SHOWN DASHED FOR TRUSS HANDLING. TO BE REMOVED AFTER TRUSS IS INSTALLED.

> 27-9-12 26-10-0 2-3-8 30-2-12 32-8-12 2-5-0 2-6-0 0-11-12

Plate Offsets (X,Y)--[2:0-4-14,0-2-8], [5:0-5-0,0-2-4], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [10:0-5-0,0-4-8], [12:0-0-0,0-1-3], [14:0-3-0,0-1-12], [17:0-3-8,0-2-0], [18:0-6-8,Edge], [19:0-3-8,0-2-0], [20:0-3-8,0-2-0], [21:0-3-8,0-2-0], [23:0-8-0,0-3-0], [28:0-3-8,0-1-8], [32:0-3-8,0-2-8]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.35 22-26 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.66 25-28 >587 180	M18AHS 142/136
BCLL 0.0 *	Rep Stress Incr YES	WB 0.90	Horz(CT) 0.14 12 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Attic -0.25 18-29 776 360	Weight: 469 lb FT = 20%

BOT CHORD

WEBS

LUMBER-**BRACING-**TOP CHORD 2x6 SP No.2 TOP CHORD

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*

12-15,15-23: 2x4 SP No.1, 23-31: 2x4 SP DSS

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

5-30,9-16,2-33: 2x6 SP No.2, 9-34,5-34,14-18: 2x4 SP No.1

OTHERS 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

TOP CHORD

BOT CHORD

REACTIONS.

(size) 33=0-5-8, 16=0-5-8, 12=Mechanical Max Horz 33=-194(LC 11)

Max Grav 33=2530(LC 24), 16=1375(LC 25), 12=1971(LC 2)

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

2-3=-3144/57, 3-5=-3324/44, 5-6=-1270/124, 6-7=-2196/461, 7-8=-2196/461, 8-9=-1570/158, 9-10=-3221/67, 10-11=-3319/160, 11-12=-3710/187, 2-33=-2459/129

30-32=0/2730, 28-30=0/2964, 25-28=0/4201, 23-25=0/5030, 21-23=0/3220, 17-21=0/963,

16-17=-1858/0, 14-16=-1662/0, 13-14=-94/3219, 12-13=-94/3219, 27-29=-1629/0, 26-27=-2623/0, 22-26=-2529/0, 20-22=-2529/0, 19-20=-813/677, 18-19=0/1949

3-32=-586/71, 3-30=0/339, 29-40=0/840, 5-40=0/725, 16-18=-1094/76, 9-18=-8/870, 10-18=-445/287. 10-14=-276/102. 2-32=0/2741. 22-23=-381/0. 25-26=-279/4.

20-21=-755/0, 23-26=-299/41, 20-23=0/1777, 5-36=-1787/54, 35-36=-1760/56, 35-37=-1531/7, 9-37=-1628/1, 7-35=-314/136, 27-28=-638/0, 28-29=0/1697,

25-27=0/1055, 17-19=-1133/0, 19-21=0/2450, 17-18=0/2973, 8-37=0/492, 14-18=0/4297,

6-35=-430/1111, 8-35=-461/1040, 11-14=-463/170

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) All plates are 2x4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Ceiling dead load (5.0 psf) on member(s). 5-36, 35-36, 35-37, 9-37; Wall dead load (5.0 psf) on member(s).29-40, 5-40, 9-18
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-29, 26-27, 22-26, 20-22,

Contraced to page 2



October 19,2022

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

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



Job	Truss	Truss Type	Qty	Ply	50 SERENITY - roof	
					I54792725	5
32379-32379A	A3	ROOF TRUSS	1	1		
					Job Reference (optional)	

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:00 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-G3w96eeuzxNi1K0fybhg9j75gvQu92of1nC5mryS6FD

10) Refer to girder(s) for truss to truss connections.

11) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

 Job
 Truss
 Truss Type
 Qty
 Ply
 50 SERENITY - roof

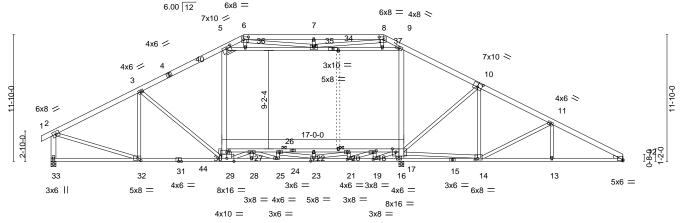
 32379-32379A
 A4G
 ROOF TRUSS
 1
 3
 Job Reference (optional)

84 Components (Dunn), Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:04 2022 Page 1

D:ED3wuaDFL2j3tbolojiMjZyqmu4-9qAgy0hP19t8VyKQBQmcJZHkZXm35tzExOAJvcyS6F9
0-11-0 8-2-14 16-2-4 18-0-0 24-6-8 31-1-0 32-8-12 40-0-0 46-9-6 53-5-0
1-11-0 8-2-14 16-2-4 18-0-0 24-6-8 5-8-6-8 1-7-12 7-3-4 6-9-6 67-10

Scale = 1:107.6



NON-STRUCTURAL STUD(S) SHOWN DASHED FOR TRUSS HANDLING. TO BE REMOVED AFTER TRUSS IS INSTALLED.

				27-9	9-12					
8-2-14	16-2-4	18-8-14 21-2-7	24-6-8	26-10-0	30-2-12	32-8-12	40-0-0	46-9-6	53-5-0	1
8-2-14	7-11-6	2-6-10 2-5-10	3-4-1	2-3-8	2-5-0	2-6-0	7-3-4	6-9-6	6-7-10	٦

Plate Offsets (X,Y)-- [5:0-4-12,0-2-4], [6:0-5-4,0-3-0], [8:0-5-4,0-3-0], [10:0-5-0,0-4-8], [12:0-0-0,0-1-3], [14:0-3-0,0-2-0], [17:0-4-0,Edge], [18:0-3-8,0-1-8], [19:0-3-8,0-1-8], [21:0-3-8,0-1-8], [23:0-3-8,0-3-0], [30:0-2-12,0-1-12], [32:0-3-8,0-2-8]

LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.42 27-30	>912	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.67 27-30	>575	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.16 12	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matri	x-MS	Attic	-0.21 17-30	899	360	Weight: 1414 lb	FT = 20%

LUMBER-TOP CHORD

2x6 SP No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*

12-15,23-31: 2x4 SP No.1

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

5-29: 2x6 SP DSS, 9-16,2-33,29-30: 2x6 SP No.2

9-34,5-34: 2x4 SP DSS

OTHERS 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS. (size) 33=0-5-8, 16=0-5-8, 12=Mechanical

Max Horz 33=-194(LC 9)

Max Uplift 33=-226(LC 8), 16=-1948(LC 22), 12=-95(LC 8) Max Grav 33=7322(LC 16), 16=544(LC 8), 12=5290(LC 2) 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, Except:

6-0-0 oc bracing: 16-19,14-16. 6-0-0 oc bracing: 17-30

WEBS 1 Row at midpt 5-9

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED AT JOINT 29 FOR LOAD REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.25"x 4.5" SCREWS OR OTHER FASTENERS THAT PENETRATES ALL PLIES, PER HANGER MANUFACTURER SPECIFICATIONS.

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

TOP CHORD 2-3=-9701/304, 3-5=-11520/370, 5-6=-2626/197, 6-7=-2243/467, 7-8=-2243/467,

8-9=-3669/248, 9-10=-11117/405, 10-11=-10418/334, 11-12=-10495/251, 2-33=-7249/269

32-33=-122/314, 29-32=-275/8689, 28-29=0/11799, 25-28=0/11799, 23-25=0/11195,

21-23=0/5425, 19-21=0/1982, 16-19=-2128/0, 14-16=-1164/0, 13-14=-175/9192, 12-13=-175/9192, 27-30=-2171/178, 26-27=-1611/0, 22-26=-813/1290, 20-22=-813/1290,

18-20=-647/4816, 17-18=-257/8259

WEBS 3-32=-2404/150, 3-29=-89/2324, 29-30=-166/4300, 30-40=-135/4397, 5-40=-46/3806,

 $16\text{-}17\text{=-}447/2232, \, 9\text{-}17\text{=-}246/4344, \, 10\text{-}17\text{=-}96/977, \, 10\text{-}14\text{=-}1160/98, \, 2\text{-}32\text{=-}161/8803, \, 2\text{-}161/8803, \, 2\text{-}32\text{=-}161/8803, \, 2\text{-}32\text{=-$

22-23=-446/0, 25-26=-94/276, 20-21=-1235/0, 23-26=-1972/170, 20-23=0/4000,

5-36=-7523/392, 35-36=-7454/394, 35-37=-6871/310, 9-37=-7237/319, 7-35=-309/129, 27-29=-465/776, 25-27=-689/418, 18-19=-1628/0, 18-21=0/3751, 17-19=0/4247,

6-36=0/553, 8-37=-43/1807, 14-17=0/10252, 6-35=-1311/130, 8-35=-1833/116,

11-14=-181/335

NOTES-

1) n/a

BOT CHORD

2) 3-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-6-0 oc.

Web connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc,

2x6 - 2 rows staggered at 0-9-0 oc,

3) 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.

Continue lange of this design.



October 19,2022

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

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



Job	Truss	Truss Type	Qty	Ply	50 SERENITY - roof	
32379-32379A	A4G	ROOF TRUSS	1	_		154792726
32313-32313A	740	1000 11000	ļ ·	3	Job Reference (optional)	

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:04 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-9qAgy0hP19t8VyKQBQmcJZHkZXm35tzExOAJvcyS6F9

- 5) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (5.0 psf) on member(s). 5-36, 35-36, 35-37, 9-37; Wall dead load (5.0 psf) on member(s).30-40, 5-40, 9-17
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 27-30, 26-27, 22-26, 20-22, 18-20, 17-18
- 12) Refer to girder(s) for truss to truss connections.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 33=226, 16=1948.
- 14) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5494 lb down and 367 lb up at 16-5-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 16) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-6=-60, 6-8=-60, 8-12=-60, 33-41=-20, 17-30=-30, 5-9=-10

Drag: 5-30=-10, 9-17=-10

Concentrated Loads (lb) Vert: 29=-3291(F)



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792727 32379-32379A A5G COMMON GIRDER Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:06 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-5CHRNijfZn7sIFUoIro4O_N84KamZp8XPifQ_VyS6F7 22-6-8 26-10-10 31-1-0 32-11-8 -0-11-0 0-11-0 8-3-6 7-11-14 1-8-12 4-6-8 4-4-2 4-2-6 1-10-8 Scale = 1:77.2 4x6 <>

	$7x10 = 6.00 \overline{12}$	2x4 5x6 =	6x8 =
	3x6 6	7 8	9 10
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	3 29 12 11 5x10 = 2x4 2x4 =
8-3-6	16-3-4 22-6	-8 26-7-8 31-1-6	32-11-8

Plate Offsets (X,Y)--[6:0-5-0,0-3-0], [19:0-8-0,0-4-12] LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.45 Vert(LL) -0.08 19-21 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.46 Vert(CT) -0.17 19-21 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.72 Horz(CT) 0.03 n/a 11 n/a Code IRC2015/TPI2014 **BCDL** 10.0 FT = 20%Matrix-MS Weight: 772 lb

TOP CHORD

BOT CHORD

WEBS

7-11-14

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2 *Except*

14-16: 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.2 or 2x4 SPF No.2 *Except* **WEBS**

5-19: 2x10 SP DSS, 2-22: 2x6 SP No.2, 8-12: 2x4 SP No.1

(size) 22=0-5-8, 11=0-5-8

Max Horz 22=293(LC 8)

Max Uplift 22=-228(LC 8), 11=-186(LC 5) Max Grav 22=3073(LC 1), 11=3047(LC 1)

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

TOP CHORD $2-3=-3896/307,\ 3-5=-4160/377,\ 5-6=-4032/463,\ 6-7=-2345/200,\ 7-8=-2345/200,$

8-9=-494/31, 9-10=-587/33, 2-22=-2988/268, 10-11=-3040/133

21-22=-320/158, 19-21=-470/3390, 17-19=-312/3092, 13-17=-113/1455, 12-13=-113/1455 **BOT CHORD** 3-21=-816/154, 3-19=-116/490, 6-19=-530/3440, 6-17=-2015/347, 2-21=-157/3380, **WEBS**

16-17=-254/2487, 8-16=-229/2539, 8-14=-2851/293, 12-14=-2893/267, 10-12=-128/2756

NOTES-

REACTIONS.

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 22=228, 11=186,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3291 lb down and 367 lb up at 16-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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

6-17, 10-11, 8-14

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

except end verticals.

1 Row at midpt

6-0-0 oc bracing: 14-16

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Continued on page 2

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

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Truss Type Job Truss Qty Ply 50 SERENITY - roof 154792727 **COMMON GIRDER** 32379-32379A A5G

84 Components (Dunn),

Dunn, NC - 28334,

Z Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:06 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-5CHRNijfZn7sIFUoIro4O_N84KamZp8XPifQ_VyS6F7

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-6=-60, 6-9=-60, 9-10=-60, 11-22=-20, 14-16=-20 Concentrated Loads (Ib)

Vert: 19=-3291(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty 50 SERENITY - roof 154792728 32379-32379A A6 Common Job Reference (optional)

6-6-8

24-6-8

6-6-8

84 Components (Dunn), Dunn, NC - 28334 8-1-9

8-1-9

18-0-0

9-10-7

-0<u>-11-0</u> 0-11-0

8.610 s May 25 2022 MiTek Industries, Inc. Wed Oct 19 07:52:01 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-bj7?6W5CRr1evfeXMtx30lyHtM249_xu5M0_6CyRvqC 31-1-0 40-11-7 45-2-4 53-2-0

Structural wood sheathing directly applied or 3-9-14 oc purlins,

3-17, 6-17, 6-15

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

except end verticals.

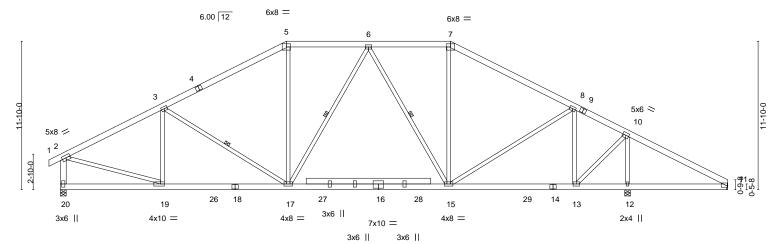
1 Row at midpt

4-2-13

9-10-7

Scale = 1:91.8

7-11-12



ŀ	8-1-9		9-10-7			13-1-0	-		9-10-7		45-2-4		7-11-12
Plate Offsets		-0], [19:0-3-8,				13-1-0			9-10-7		4-2-13		-11-12
		<u>, , , , , , , , , , , , , , , , , , , </u>											
LOADING (ps	sf) SPAC	ING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLA ⁻	TES	GRIP
TCLL 20	.0 Plate	Grip DOL	1.15	TC	0.66	Vert(LL)	-0.30 1	5-17	>999	240	MT20)	197/144
TCDL 10	.0 Lumb	er DOL	1.15	BC	0.85	Vert(CT)	-0.49 1	5-17	>999	180			
BCLL 0	.0 * Rep 9	Stress Incr	YES	WB	0.71	Horz(CT)	0.05	12	n/a	n/a			
BCDL 10		IRC2015/TPI	2014	Matrix	x-MS						Weig	ht: 438 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2

2x4 SP No.2 or 2x4 SPF No.2 *Except* **WEBS**

2-20: 2x6 SP No.2

REACTIONS. (size) 11=Mechanical, 12=0-5-8, 20=0-5-8

Max Horz 20=-190(LC 11)

Max Uplift 11=-64(LC 11), 12=-31(LC 11), 20=-84(LC 10) Max Grav 11=264(LC 22), 12=2235(LC 2), 20=1852(LC 1)

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

TOP CHORD 2-3=-2212/380, 3-5=-2091/424, 5-6=-1768/439, 6-7=-1582/417, 7-8=-1882/398,

8-10=-1210/290, 10-11=-101/251, 2-20=-1773/355 17-19=-180/1910, 15-17=-60/1762, 13-15=-79/1045

BOT CHORD WEBS 3-19=-391/176, 3-17=-253/199, 5-17=0/510, 6-15=-536/136, 7-15=0/441, 8-15=-23/698,

8-13=-1032/209, 10-13=-161/1633, 10-12=-2033/336, 2-19=-218/1898

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 11, 31 lb uplift at joint 12 and 84 lb uplift at joint 20.
- 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.



October 19,2022

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

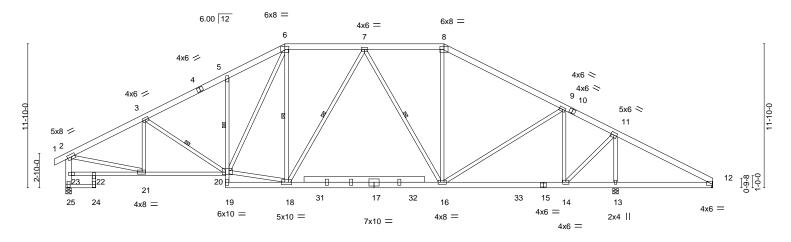


Job Truss Truss Type Qty 50 SERENITY - roof 154792729 32379-32379A A6A Common Job Reference (optional) 8.610 s May 25 2022 MTTek Industries, Inc. Wed Oct 19 07:52:38 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-0rs_tAYQkChOrLze095l0Y_bXGhyKjoLbcUSuZyRvpd

84 Components (Dunn). Dunn, NC - 28334.



Scale = 1:94.7



	2-0-0	0-3-1 13-1-0	10-0-0) 31.	- 1-0	40-11-7	1 45-	2-4 ₁ 33-2-	.0
	2-5-8	3-11-9 6-8-7	4-10-8	3 13	-1-0	9-10-7	4-2	-13 7-11-	12
Plate Offset	ts (X,Y)	[17:0-5-0,0-3-4], [20:0-3-4	4,0-2-8], [21:0-	3-8,0-2-0]					
				_					
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL :	20.Ó	Plate Grip DOL	1.15	TC 0.66	Vert(LL)	-0.28 16-18 >999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.48 16-18 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.09 13 n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matrix-MS	, ,			Weight: 457 lb	FT = 20%
		1						· ·	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

24-25,22-24,20-23,5-19: 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

2-25: 2x6 SP No.2

REACTIONS. (size) 25=0-5-8, 12=Mechanical, 13=0-5-8

Max Horz 25=-190(LC 11)

Max Uplift 25=-84(LC 10), 12=-69(LC 11), 13=-24(LC 11) Max Grav 25=1845(LC 1), 12=236(LC 22), 13=2268(LC 1)

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

TOP CHORD 2-3=-2413/379, 3-5=-2383/445, 5-6=-2352/558, 6-7=-1692/432, 7-8=-1535/415,

8-9=-1834/396, 9-11=-1162/286, 11-12=-45/309, 23-25=-1799/331, 2-23=-1771/345 **BOT CHORD**

22-23=-130/387, 21-22=-160/358, 20-21=-192/2081, 5-20=-362/202, 16-18=-60/1719,

14-16=-75/1001

WEBS 2-21=-247/1931, 3-21=-344/151, 18-20=0/1702, 6-20=-225/835, 6-18=-105/265,

7-16=-548/138, 8-16=0/423, 9-16=-22/700, 9-14=-1061/211, 11-14=-165/1638,

11-13=-2048/340

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 3x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 84 lb uplift at joint 25, 69 lb uplift at joint 12 and 24 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.



Structural wood sheathing directly applied or 3-10-3 oc purlins,

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

5-20

3-20, 6-18, 7-18, 7-16

except end verticals.

1 Row at midpt

1 Row at midpt

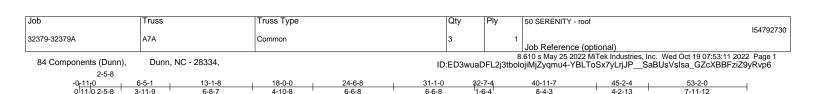
October 19,2022

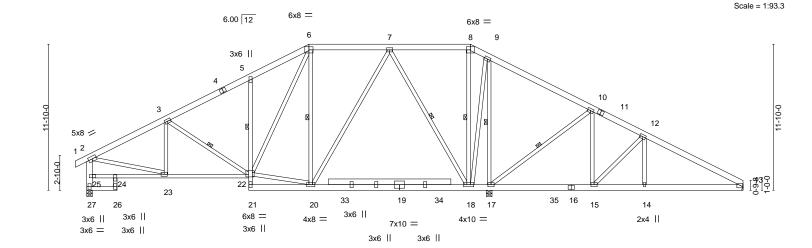
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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







	2-3-0	0-3-1 13-1-0	10-0	J-U		31-1-0	92-1-4	40-11-7	43-2-4	33-2-0	1
	2-5-8	3-11-9 6-8-7	4-10)-8		13-1-0	1-6-4	8-4-3	4-2-13	7-11-12	1
Plate Offsets	(X,Y)	[22:0-2-12,0-2-8]									
LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	PLATE	ES GRIP	
TCLL 2	0.Ó	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.24 18-20	>999 240	MT20	197/144	
TCDL 1	0.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.42 18-20	>919 180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.05 13	n/a n/a			
BCDL 1	0.0	Code IRC2015/TF	PI2014	Matri	ix-MS				Weight	t: 485 lb FT = 20%	5
									_		

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 *Except*

-0-11-0 0-11-0 2-5-8

26-27,24-26,22-25,5-21: 2x4 SP No.2 or 2x4 SPF No.2

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

2-27: 2x6 SP No.2

REACTIONS. (size) 27=0-5-8, 13=Mechanical, 17=0-5-8

Max Horz 27=-190(LC 11)

Max Uplift 27=-86(LC 10), 13=-63(LC 11), 17=-45(LC 11) Max Grav 27=1317(LC 21), 13=712(LC 22), 17=2342(LC 1)

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

TOP CHORD 2-3=-1628/240, 3-5=-1430/276, 5-6=-1402/390, 6-7=-867/284, 9-10=0/349,

10-12=-590/139, 12-13=-998/142, 25-27=-1275/238, 2-25=-1248/253 **BOT CHORD** 24-25=-130/339, 23-24=-160/325, 22-23=-144/1382, 5-22=-362/202, 18-20=-45/635,

15-17=0/488, 14-15=-33/803, 13-14=-33/803

WEBS 2-23=-126/1249, 20-22=0/956, 6-22=-216/777, 6-20=-430/150, 7-20=-40/605,

7-18=-1125/226. 10-17=-779/219. 10-15=-9/474. 12-15=-490/143. 12-14=0/255.

9-17=-1741/208. 9-18=0/1216

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 27, 63 lb uplift at joint 13 and 45 lb uplift at joint 17.
- 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.



Structural wood sheathing directly applied or 5-8-3 oc purlins, except

3-22, 6-20, 7-18, 8-18, 10-17, 9-17

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

5-22

October 19,2022

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Job Truss Truss Type Qty 50 SERENITY - roof 154792731 32379-32379A Α8 Common Job Reference (optional)

6-6-8

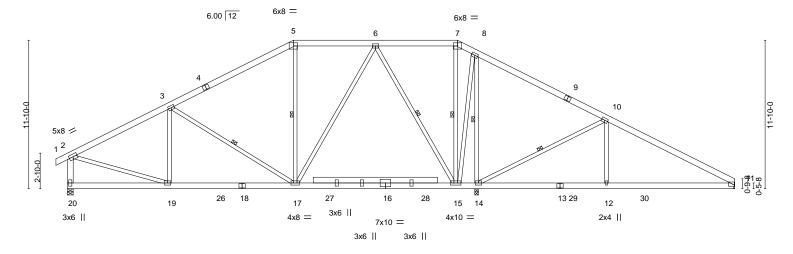
10-4-3

8.610 s May 25 2022 MiTek Industries, Inc. Wed Oct 19 07:55:51 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-sz0yO9tUHV00V?DkqB3?LFUca3bQ2z1l_8k9AtyRvmc Dunn, NC - 28334. 84 Components (Dunn). -0₋11₋0 0-11-0 8-1-9 18-0-0 24-6-8 31-1-0 32-7-4 1-6-4 42-11-7 53-2-0

6-6-8

Scale = 1:91.8

10-2-9



<u> </u>	8-1-9 8-1-9	18-0-0 9-10-7		31-1-0 13-1-0	32-7-4 1-6-4	42-11-7 10-4-3	53-2-0
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACIN Plate Gr Lumber Rep Stro	IG- 2-0-0 rip DOL 1.15 DOL 1.15	CSI. TC 0.55 BC 0.69 WB 0.89 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.26 15-17 -0.43 15-17 0.03 11	l/defl L/d >999 240 >897 180 n/a n/a	PLATES GRIP MT20 197/144 Weight: 453 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.2

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

8-1-9

9-10-7

2-20: 2x6 SP No.2

REACTIONS. (size) 20=0-5-8, 14=0-3-8, 11=Mechanical

Max Horz 20=-190(LC 11)

Max Uplift 20=-89(LC 10), 14=-43(LC 11), 11=-64(LC 11) Max Grav 20=1352(LC 21), 14=2246(LC 2), 11=766(LC 22)

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

TOP CHORD 2-3=-1517/263, 3-5=-1195/275, 5-6=-962/304, 7-8=-275/251, 10-11=-1059/164,

2-20=-1275/270

BOT CHORD 17-19=-121/1283, 15-17=-42/709, 12-14=-34/861, 11-12=-34/861

3-17=-426/205, 6-17=-49/640, 6-15=-1063/209, 8-15=0/1200, 8-14=-1753/236, **WEBS**

10-14=-1017/278, 10-12=0/431, 2-19=-111/1256

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 4x6 MT20 unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 20, 43 lb uplift at joint 14 and 64 lb uplift at joint 11.
- 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.



Structural wood sheathing directly applied or 5-5-3 oc purlins, except

3-17, 5-17, 6-15, 7-15, 8-14, 10-14

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

6-0-0 oc bracing: 14-15.

1 Row at midpt

October 19,2022

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





13-1-0

Scale = 1:94.4

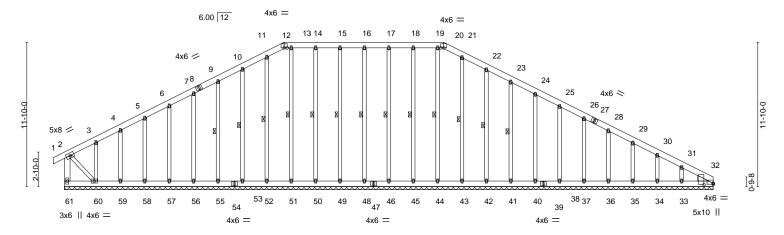


Plate Offsets (X,Y) [32:0-0-0,0-0-15], [32:0-1-6,0-9-2]						
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP		
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 1 n/r 120	MT20 197/144		
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 1 n/r 90			
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01 32 n/a n/a			
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 552 lb FT = 20%		

LUMBER-

TOP CHORD 2x6 SP No.2 **BOT CHORD** 2x6 SP No.2 WEBS 2x6 SP No.2 *Except*

-0-11-0 0-11-0

18-0-0

2-60: 2x4 SP No.3

OTHERS 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Right: 2x6 SP No.2

BRACING-

WEBS

TOP CHORD

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

22-1-0

except end verticals.

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

17-46, 16-48, 15-49, 14-50, 13-51, 11-52, 1 Row at midpt

10-53, 9-55, 18-45, 19-44, 21-43, 22-42,

REACTIONS. All bearings 53-2-0.

> Max Horz 61=-200(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 61, 46, 48, 49, 50, 52, 53, 55, 56,

57, 58, 59, 45, 42, 41, 40, 38, 37, 36, 35, 34, 33 except 60=-190(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 46, 48, 49, 50, 51, 52, 53, 55,

56, 57, 58, 59, 60, 45, 44, 43, 42, 41, 40, 38, 37, 36, 35, 34, 32, 33 except

61=250(LC 19)

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

TOP CHORD 11-12=-106/266, 12-13=-95/260, 13-14=-95/260, 14-15=-95/260, 15-16=-95/260,

16-17=-95/260, 17-18=-95/260, 18-19=-95/260, 19-20=-95/260, 20-21=-106/267

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 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.
- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 61, 46, 48, 49, 50, 52, 53, 55, 56, 57, 58, 59, 45, 42, 41, 40, 38, 37, 36, 35, 34, 33 except (jt=lb) 60=190.



October 19,2022

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Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792733 32379-32379A **B1** Monopitch 5 Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:16 2022 Page 1

84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-o8uDT7qwCrORxoFjuy_Qo5nldMzQvRK?iG4yKwyS6Ez

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

5-6, 4-6

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

except end verticals.

1 Row at midpt

16-5-0 7-5-2 7-5-2 8-11-14

Scale = 1:62.9

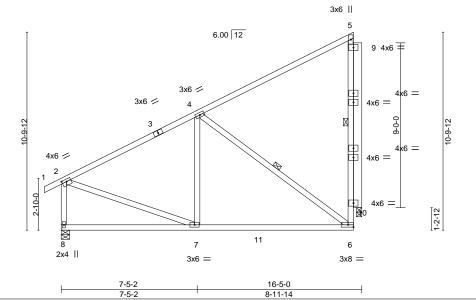


Plate Offsets (X,Y)	[2:0-3-0,0-1-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.90	Vert(LL) -0.12 6-7 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.23 6-7 >801 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) -0.01 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 127 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

OTHERS 2x6 SP No.2

REACTIONS. (size) 8=0-5-8, 10=0-3-8

Max Horz 8=273(LC 10) Max Uplift 10=-179(LC 10)

Max Grav 8=693(LC 1), 10=625(LC 1)

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

2-4=-611/0, 6-10=-103/428, 2-8=-632/61 TOP CHORD

BOT CHORD 7-8=-333/140, 6-7=-200/473 WEBS 4-6=-568/244, 2-7=0/453

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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, with BCDL = 10.0psf.
- 4) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=179.





Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792734 32379-32379A B2 MONOPITCH 5 Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:17 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-GKSbhSrZz9WIZxgwSfVfLIK0umCDetl9xwpVsMyS6Ey 7-0-13 7-0-13 -0-11-0 0-11-0

6-9-5

7-0-13

20-11-0

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 4-10-4 oc purlins,

7-8, 6-8

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

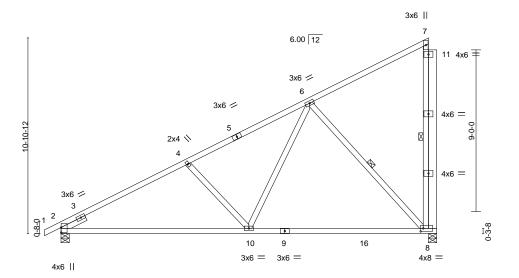


Plate Off	sets (X,Y)	[2:0-3-5,0-0-1], [8:0-1-12,0-2	2-0]									
LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.39	8-10	>624	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.60	8-10	>410	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI20	014	Matri	x-MS						Weight: 140 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

4-10: 2x4 SP No.3 **OTHERS** 2x6 SP No.2

Left 2x4 SP No.3 1-6-0 SLIDER

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

Max Horz 2=347(LC 10)

Max Uplift 2=-18(LC 10), 8=-177(LC 10) Max Grav 2=875(LC 1), 8=808(LC 1)

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

TOP CHORD 2-4=-1202/38, 4-6=-943/18 2-10=-322/1018, 8-10=-166/528 **BOT CHORD**

WEBS 4-10=-379/211, 6-10=-34/613, 6-8=-763/248

NOTES-

1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

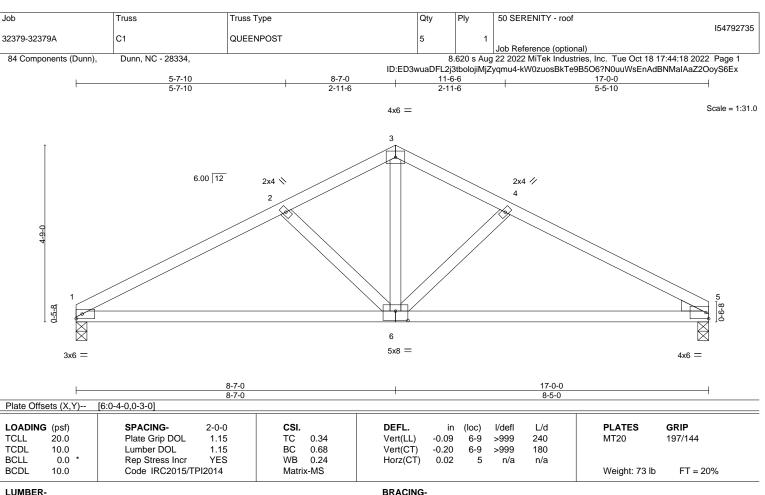
10-5-8

- 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, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 8=177.



Scale: 3/16"=1





TOP CHORD

BOT CHORD

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

Right: 2x4 SP No.3

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

Max Horz 1=63(LC 10)

Max Uplift 1=-38(LC 10), 5=-37(LC 11) Max Grav 1=680(LC 1), 5=680(LC 1)

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

TOP CHORD 1-2=-1063/207, 2-3=-824/174, 3-4=-821/173, 4-5=-1051/205

BOT CHORD 1-6=-121/896, 5-6=-118/878

WEBS 2-6=-301/146, 3-6=-99/575, 4-6=-280/142

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



Structural wood sheathing directly applied or 5-1-9 oc purlins.

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

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

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

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



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792736 32379-32379A D1E **GABLE** Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:19 2022 Page 1

84 Components (Dunn),

Dunn, NC - 28334,

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-CiaL68tpVmm0oFzIZ4X7QjPRta6B6rbSOEIcwFyS6Ew

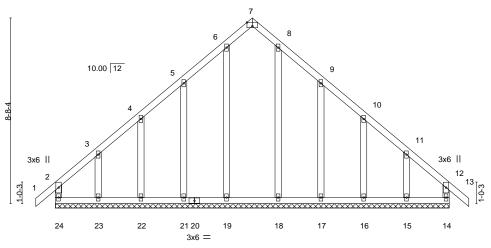
9-2-8 9-2-8 18-5-0 9-2-8

> Scale = 1:53.9 3x6 =

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

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

except end verticals.



18-5-0

_Plate Off	fsets (X,Y)	[7:0-3-0,Edge]										
LOADIN	\(\(\)	SPACING- 2-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.19	Vert(LL)	-0.00	13	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL 1.	.15	BC	0.12	Vert(CT)	-0.00	13	n/r	90		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.12	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4	Matri	x-R						Weight: 124 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except*

6-19,8-18: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 18-5-0.

Max Horz 24=178(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 24, 14, 22, 16 except 21=-100(LC 10), 23=-163(LC 10), 17=-102(LC

11), 15=-158(LC 11)

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

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=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 14, 22, 16 except (jt=lb) 21=100, 23=163, 17=102, 15=158.





Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792737 32379-32379A D₂G **COMMON GIRDER** 3 Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:21 2022 Page 1

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-95h6Xqu31O0k2Z7hhVZbV8UhWNkfaaflsYnj?7yS6Eu 12-7-14 16-1-4 18-5-0 3-5-6 3-5-6 3-5-6 2-3-12

> 5x8 || Scale = 1:55.1

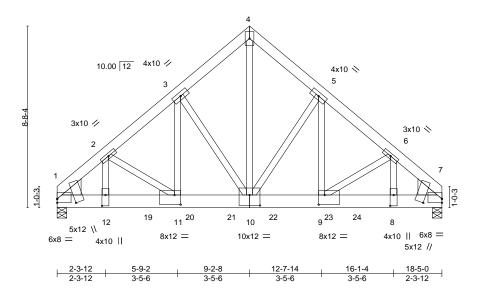


Plate Offsets (X,Y)	Plate Offsets (X,Y) [1:0-0-0,0-2-4], [1:0-5-13,0-9-6], [7:0-0-0,0-2-4], [7:0-5-13,0-9-6], [8:0-6-4,0-2-0], [9:0-3-8,0-5-8], [10:0-6-0,0-6-0], [11:0-3-8,0-5-8], [12:0-6-4,0-2-0]							
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.57 BC 0.37 WB 0.79 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.07 11 >999 240 Vert(CT) -0.13 10-11 >999 180 Horz(CT) 0.03 7 n/a n/a	PLATES GRIP MT20 197/144 Weight: 541 lb FT = 20%				

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x8 SP DSS

WEBS 2x4 SP No.2 or 2x4 SPF No.2

WEDGE

Left: 2x10 SP No.2 , Right: 2x10 SP No.2

REACTIONS. (size) 1=0-5-8 (req. 0-5-14), 7=0-5-8

Max Horz 1=-162(LC 6)

Max Grav 1=11275(LC 2), 7=8917(LC 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.

PLY-TO-PLY CONNECTION REQUIRES THAT AN APPROVED FACE MOUNT HANGER (SPECIFIED BY OTHERS) IS REQUIRED AT JOINT 12 FOR LOAD REPORTED IN NOTES. FACE MOUNT HANGER SHALL BE ATTACHED WITH A MINIMUM OF 0.25"x 4.5" SCREWS OR OTHER FASTENERS THAT PENETRATES ALL PLIES, PER HANGER

MANUFACTURER SPECIFICATIONS.

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

TOP CHORD 1-2=-13461/0, 2-3=-10780/0, 3-4=-7890/0, 4-5=-7882/0, 5-6=-10131/0, 6-7=-10881/0 **BOT CHORD** 1-12=0/9869, 11-12=0/9869, 10-11=0/8314, 9-10=0/7784, 8-9=0/7974, 7-8=0/7974 **WEBS** 4-10=0/9691, 5-10=-3091/0, 5-9=0/3878, 6-9=-280/0, 6-8=0/1005, 3-10=-4052/0, 3-11=0/5044, 2-11=-1896/384, 2-12=-224/3311

NOTES-

- 1) Special connection required to distribute web loads equally between all plies.
- 2) 3-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x8 - 4 rows staggered at 0-4-0 oc. Web connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-4-0 oc,

- 3) 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.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; 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.
- 8) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5270 lb down and 115 lb up at 2-3-12, 1951 lb down at 4-3-12, 1947 lb down at 6-3-12, 1947 lb down at 8-3-12, 1947 lb down at 10-3-12, 1947 lb down at 12-3-12, and 1947 lb down at 14-3-12, and 1947 lb down at 16-3-12 on bottom chord. The design/selection of such connection

Conditivide (a) is the responsibility of others.



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

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

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



Qty Job Truss Truss Type Ply 50 SERENITY - roof 154792737 D2G **COMMON GIRDER** 32379-32379A

84 Components (Dunn),

Dunn, NC - 28334,

3 Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:22 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-dHFUkAvhoh8agjitEC4q2M1sGn4uJ1uu4CXGXayS6Et

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 13-16=-20

Concentrated Loads (lb)

Vert: 8=-1872(F) 12=-3914(F) 19=-1875(F) 20=-1872(F) 21=-1872(F) 22=-1872(F) 23=-1872(F) 24=-1872(F)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792738 32379-32379A E1E **GABLE**

3x6 =

84 Components (Dunn),

Dunn, NC - 28334,

Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:23 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-5UpsxWwJZ?GRHsH4owc3bZa6uBUD2fq1JsGp30yS6Es

8-8-8 8-8-8

Scale = 1:51.3

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

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

except end verticals.

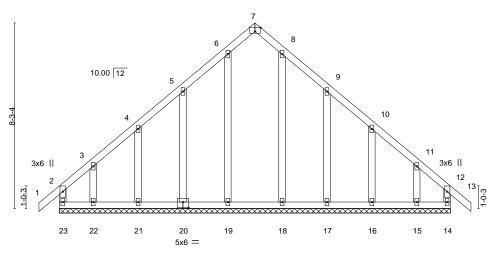


Plate Off	Plate Offsets (X,Y) [7:0-3-0,Edge], [20:0-3-0,0-3-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.ó	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.00	`13	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	13	n/r	90		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-R						Weight: 116 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except*

6-19,8-18: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 17-5-0.

Max Horz 23=169(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 23, 14, 20, 21, 17, 16 except 22=-173(LC 10), 15=-168(LC 11)

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

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=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 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.
- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23, 14, 20, 21, 17, 16 except (jt=lb) 22=173, 15=168.



October 19,2022



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792739 32379-32379A E2E Common Structural Gable Job Reference (optional)

84 Components (Dunn),

Dunn, NC - 28334,

8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:24 2022 Page 1

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-ZgNE9sxyJJOIv0sGMd7I7n6DPbmGn1MBYW0NcSyS6Er 23-10₋0 0-10-8 22-11-8 -0-11-0 0-11-0 6-1-7 6-1-10 5-4-5

> Scale = 1:66.7 4x6 =

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

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

except end verticals.

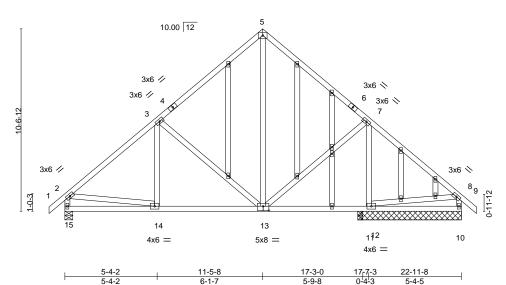


Plate Offsets (X,Y)--[13:0-4-0,0-3-0] L/d LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.46 Vert(LL) -0.03 13-14 >999 240 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.06 13-14 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.01 10 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MS Weight: 187 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 WEBS 2x4 SP No.2 or 2x4 SPF No.2 *Except*

2-15,2-14,8-10,8-11: 2x4 SP No.3

OTHERS 2x4 SP No.3 *Except*

16-17,18-19: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 6-0-0 except (jt=length) 15=0-5-8, 12=0-3-8.

Max Horz 15=217(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 15, 11, 10

All reactions 250 lb or less at joint(s) 12 except 15=756(LC 1), Max Grav

11=862(LC 1), 10=274(LC 22)

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

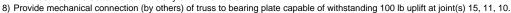
TOP CHORD 2-3=-781/101, 3-5=-487/162, 5-7=-489/162, 2-15=-709/122

BOT CHORD 14-15=-199/289, 13-14=-81/611

WFBS 3-13=-373/174, 7-13=-0/364, 7-11=-791/153, 2-14=0/420

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.





October 19,2022



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792740 32379-32379A E3G Common Girder Job Reference (optional)
8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:26 2022 Page 1

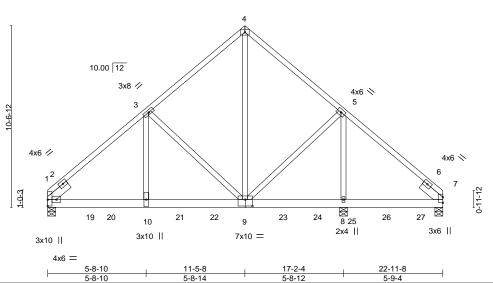
84 Components (Dunn), Dunn, NC - 28334,

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-V3V?aXyCrwf08K0eT29nCCCb3OLsFxNU?pVUgLyS6Ep 11-5-8 17-2-4 22-11-8 5-8-10 5-8-14 5-8-12 5-9-4

> Scale = 1:66.9 4x6 =

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

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



Tiate ellecte (7t, 1)	[0.0 0 0,0 1 0]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.06 9-10 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.76	Vert(CT) -0.12 9-10 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.44	Horz(CT) 0.02 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS		Weight: 315 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x6 SP No.2

Plate Offsets (X Y)-- [9:0-5-0 0-4-8]

WEBS 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS. (size) 1=0-5-8, 7=0-5-8, 8=0-5-8

Max Horz 1=-202(LC 4)

Max Uplift 1=-333(LC 8), 7=-149(LC 9), 8=-443(LC 8) Max Grav 1=3545(LC 1), 7=265(LC 20), 8=4520(LC 1)

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

1-3=-3785/409, 3-4=-1989/331, 4-5=-2002/322, 5-7=-174/312 TOP CHORD

BOT CHORD 1-10=-343/2833. 9-10=-343/2833

WEBS 3-10=-171/2143, 3-9=-1914/340, 4-9=-306/2082, 5-9=-173/2140, 5-8=-3098/251

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
- Webs connected as follows: 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 1=333, 7=149, 8=443.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 746 lb down and 84 lb up at 1-7-4, 746 lb down and 84 lb up at 3-7-4, 746 lb down and 84 lb up at 5-7-4, 746 lb down and 84 lb up at 7-7-4, 746 lb down and 84 lb up at 9-7-4, 692 lb down and 83 lb up at 11-7-4, 692 lb down and 83 lb up at 13-7-4, 692 lb down and 83 lb up at 15-7-4, 216 lb down and 89 lb up at 17-7-4, and 216 lb down and 89 lb up at 19-7-4, and 244 lb down and 84 lb up at 21-7-4 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



October 19,2022

Continued on page 2

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

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792740 E3G 32379-32379A Common Girder

84 Components (Dunn),

Dunn, NC - 28334,

| **Z** | Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:26 2022 Page 2 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-V3V?aXyCrwf08K0eT29nCCCb3OLsFxNU?pVUgLyS6Ep

LOAD CASE(S) Standard

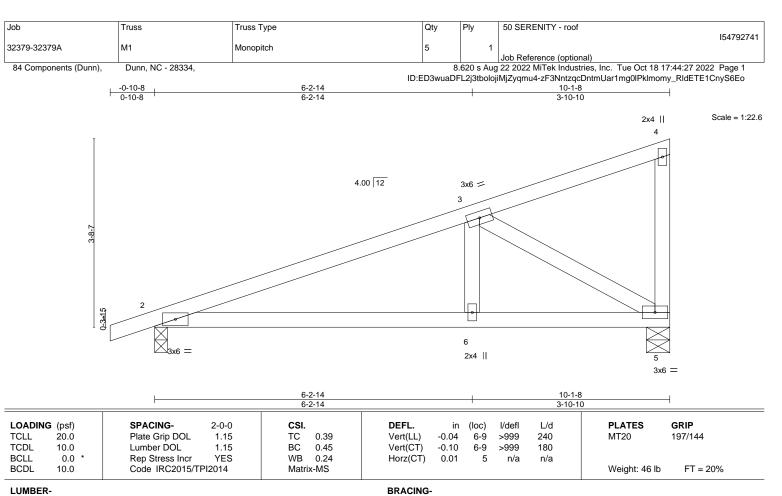
Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 11-15=-20

Concentrated Loads (lb)

Vert: 10=-746(F) 9=-692(F) 19=-746(F) 20=-746(F) 21=-746(F) 22=-746(F) 23=-692(F) 24=-692(F) 25=-216(F) 26=-216(F) 27=-244(F)





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (size)

2=0-3-0, 5=0-5-8 Max Horz 2=122(LC 6) Max Uplift 2=-55(LC 6), 5=-62(LC 10) Max Grav 2=454(LC 1), 5=397(LC 1)

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

TOP CHORD 2-3=-623/81

BOT CHORD 2-6=-161/561, 5-6=-161/561

WEBS 3-5=-642/184

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.



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

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

except end verticals.

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

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



Job Truss Truss Type Qty 50 SERENITY - roof 154792742 32379-32379A M2E Monopitch Supported Gable 2 Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:28 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-SRdl?D_SNXvkOe91bTBFldH_kCBDjx2nT7_alDyS6En 10-1-8 0-10-8 10-1-8 Scale = 1:19.3 4.00 12 0-3+15 10 3x6 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL TC Vert(LL) -0.00 120 197/144 **TCLL** 1.15 0.19 n/r MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 0.01 n/r 90 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 45 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 2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3 BRACING-

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

except end verticals.

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

REACTIONS. All bearings 10-1-8.

Max Horz 2=122(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10

Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=326(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.

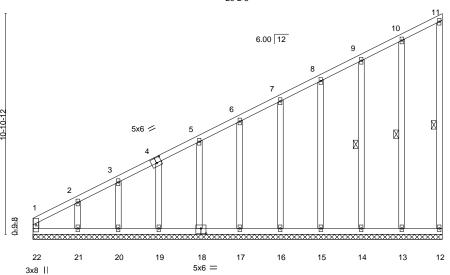




Job Truss Truss Type Qty 50 SERENITY - roof 154792743 32379-32379A МЗЕ Monopitch Supported Gable

84 Components (Dunn), Dunn, NC - 28334, Job Reference (optional)
8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:29 2022 Page 1

ID:ED3wuaDFL2j3tbolojiMjZyqmu4-weA7CZ?48r1b?nkD9AiUqqq9mcWZSN6whnj8HgyS6Em 20-2-8 20-2-8 Scale = 1:56.9



20-2-8

Plate Offsets (X,Y)	[4:0-3-0,0-3-0], [18:0-3-0,0-3-0]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) n/a - n/a 999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00 12 n/a n/a
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Weight: 151 lb FT = 20%

LUMBER-BRACING-

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 except end verticals.

WEBS 2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2 or 2x4 SPF No.2 WEBS 11-12, 10-13, 9-14 1 Row at midpt

REACTIONS. All bearings 20-2-8.

Max Horz 22=328(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except 21=-182(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 12, 13, 14, 15, 16, 17, 18, 19, 20, 21 except 22=258(LC 10)

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

TOP CHORD 1-2=-411/149, 2-3=-333/118, 3-4=-305/110, 4-5=-266/99

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 13, 14, 15, 16, 17, 18, 19 except (jt=lb) 21=182.



October 19,2022



Job Truss Truss Type Qty 50 SERENITY - roof 154792744 2 32379-32379A PB1E **GABLE** Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:30 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-OqkVPv?iv89SdxJQiuEjN2MKI?slBre3wRThp6yS6El 6-6-8 6-6-8 Scale = 1:22.9 4x6 = 4 2x4 || 6.00 12 5^{2x4} || 3 3-3-0 3-3-4 3x6 = 3x6 =2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 999 197/144 **TCLL** 1.15 0.15 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 6 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 47 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 13-1-0.

Max Horz 1=44(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9 except 2=289(LC 1), 6=289(LC 1), 10=263(LC 21),

8=263(LC 22)

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=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

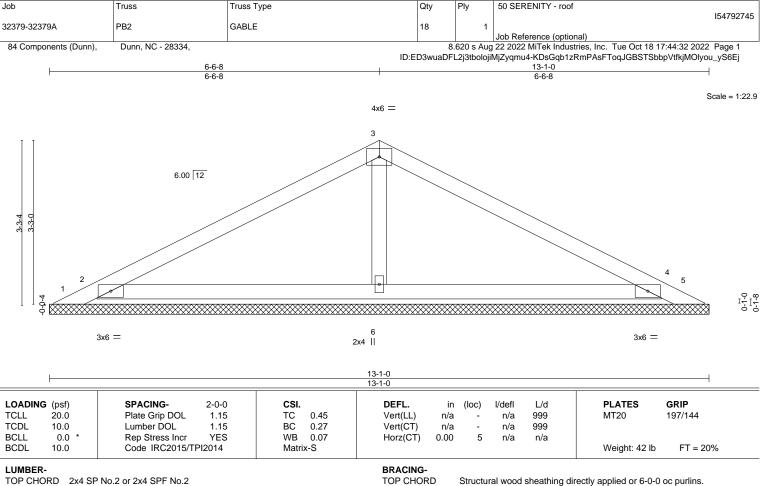


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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





BOT CHORD

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

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS. All bearings 13-1-0. Max Horz 1=44(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-338(LC 21), 5=-338(LC 22), 2=-193(LC 10), 4=-182(LC

11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=630(LC 21), 4=630(LC 22), 6=408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-275/103

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 1, 338 lb uplift at joint 5, 193 lb uplift at joint 2 and 182 lb uplift at joint 4.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792746 32379-32379A PB3 **GABLE** 2 Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:33 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-oPQe2x2bC3X1UP2?O0nQ?g_qsDtDOCZWcPhLQRyS6Ei 6-6-8 6-6-8 Scale = 1:22.9 4x6 = 3 6.00 12 3-3-0 3-3-4 3x6 = 3x6 =2x4 || LOADING (psf) SPACING-DEFL. L/d **PLATES** GRIP 2-0-0 CSI (loc) I/defl 20.0 Vert(LL) 197/144 **TCLL** Plate Grip DOL 1.15 TC 0.22 n/a n/a 999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) n/a 999 n/a **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-S Weight: 84 lb FT = 20% **BRACING-**LUMBER-TOP CHORD 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.

2x4 SP No.2 or 2x4 SPF No.2

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 13-1-0.

(lb) -Max Horz 1=44(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-338(LC 21), 5=-338(LC 22), 2=-193(LC 10), 4=-182(LC

11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=630(LC 21), 4=630(LC 22), 6=408(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-275/103

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 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 3-6-0 tall by 2-0-0 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 338 lb uplift at joint 1, 338 lb uplift at joint 5, 193 lb uplift at joint 2 and 182 lb uplift at joint 4.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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



Job Truss Truss Type Qty 50 SERENITY - roof 154792747 32379-32379A V1 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:34 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-Gb_0FG2DzNft6ZdBxklfXuX?YdDm7dQfr3RvytyS6Eh 8-5-5 8-5-5 16-10-11 8-5-5 4x6 = Scale = 1:44.4 3 10.00 12 2x4 || 2x4 || 0-0-4 3x6 // 3x6 📏 9 10 8 7 11 6 $3x6 = _{2x4} ||$ 2x4 || 2x4 || 16-10-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 197/144 **TCLL** TC 0.23 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 75 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 *Except* **OTHERS** 3-7: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 16-10-1.

Max Horz 1=-141(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-157(LC 10), 6=-157(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=359(LC 20), 9=447(LC 17), 6=447(LC 18)

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

2-9=-306/204, 4-6=-306/204 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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.
- 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=157, 6=157,



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

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

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

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

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



Job Truss Truss Type Qty 50 SERENITY - roof 154792748 32379-32379A V2 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:40 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-5lLHWK7_YDQ1gU4LI_P3n9n1o1GbXLBYD?uDAXyS6Eb 7-2-15 7-2-15 Scale = 1:38.3 4x6 = 3 10.00 12 2x4 || 2x4 | 3x6 📏 3x6 // 8 7 10 6 2x4 || 2x4 || 2x4 | 14-5-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 999 197/144 **TCLL** 1.15 TC 0.18 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.15 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.10 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 62 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SP No.2 or 2x4 SPF No.2

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

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 14-5-4.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-135(LC 10), 6=-135(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=340(LC 17), 8=359(LC 17), 6=359(LC 18)

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

2-8=-265/177, 4-6=-265/177 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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 3-6-0 tall by 2-0-0 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=135, 6=135,



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

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

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

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

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

Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792749 32379-32379A V3 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:41 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-Zxvfjg8cJXYuRdfXsiwIJMJCYRdGGouhSfdmizyS6Ea 6-0-8 6-0-8 Scale: 3/8"=1 4x6 = 3 10.00 12 2x4 || 2x4 || 3x6 🖊 8 7 6 3x6 📏 2x4 || 2x4 || 2x4 || 12-0-12 12-0-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 TC 999 197/144 **TCLL** 0.18 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 50 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS. All bearings 12-0-7.

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 10), 6=-126(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=311(LC 17), 6=311(LC 18)

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

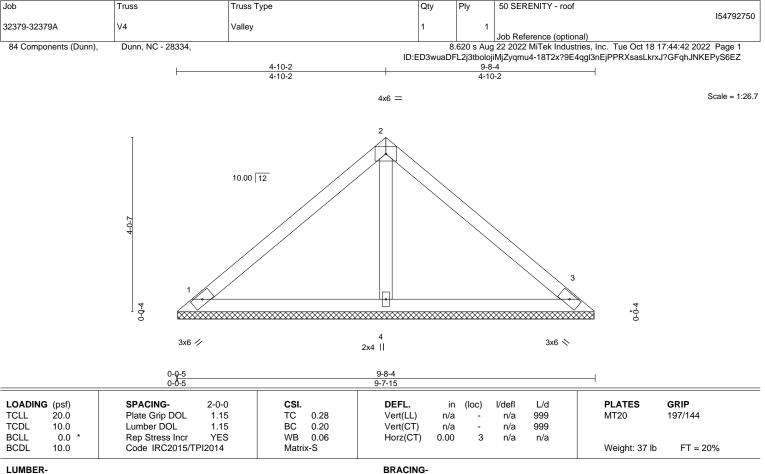
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=126, 6=126.



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

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



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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

REACTIONS.

1=9-7-11, 3=9-7-11, 4=9-7-11 (size) Max Horz 1=-78(LC 6)

Max Uplift 1=-19(LC 11), 3=-28(LC 11)

Max Grav 1=188(LC 1), 3=188(LC 1), 4=334(LC 1)

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

NOTES-

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

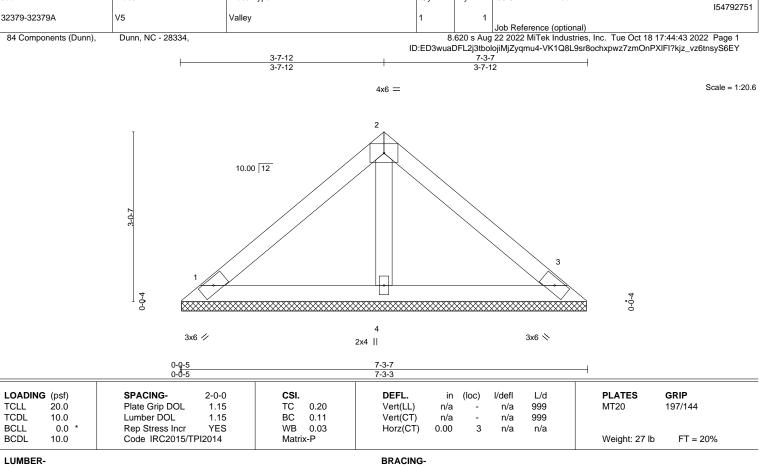
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable 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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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





TOP CHORD

BOT CHORD

Qty

Ply

50 SERENITY - roof

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

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

LUMBER-

Job

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

OTHERS 2x4 SP No.3

REACTIONS. 1=7-2-14, 3=7-2-14, 4=7-2-14 (size)

Truss

Truss Type

Max Horz 1=57(LC 7) Max Uplift 1=-21(LC 11), 3=-28(LC 11)

Max Grav 1=149(LC 1), 3=149(LC 1), 4=221(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.





Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792752 32379-32379A V6 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:44 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-_WaoMhAUcSwTl5O6XgU?x?xkffemTAR78dsQJlyS6EX 2-5-5 2-5-5 2-5-5 4x6 = Scale = 1:12.9 10.00 12 3 0-0-4 0-0-4 2x4 || 3x6 / 3x6 N 4-10-11 4-10-6 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.12 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Weight: 17 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. 1=4-10-1, 3=4-10-1, 4=4-10-1 (size) Max Horz 1=36(LC 9)

Max Uplift 1=-13(LC 11), 3=-17(LC 11)

Max Grav 1=93(LC 1), 3=93(LC 1), 4=141(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 4-10-11 oc purlins.

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



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792753 V7 32379-32379A Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:45 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-Sj8AZ1B7Nl2KwFzl5Y?EUCUw22?HCdzHNHc_rkyS6EW 2-5-14 1-2-15 1-2-15 Scale: 1.5"=1 3x6 = 2 10.00 12 3 0-0-4 0-0-4 3x6 // 3x6 📏 Plate Offsets (X,Y)--[2:0-3-0,Edge] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 20.0 1.15 TC 0.02 Vert(LL) 999 MT20 244/190 n/a n/a 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 0.00 0.00 3 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 7 lb

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-5-14 oc purlins.

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

REACTIONS. (size) 1=2-5-4, 3=2-5-4

Max Horz 1=15(LC 7)

Max Uplift 1=-2(LC 10), 3=-2(LC 11) Max Grav 1=67(LC 1), 3=67(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







Job Truss Truss Type Qty 50 SERENITY - roof 154792754 32379-32379A V8 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:46 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-wviYmNCl83ABYPXUeFWT0Q12wSJPx2_QcxLXNByS6EV 10-6-8 10-6-8 Scale = 1:55.2 4x6 = 10.00 12 3 X 3x6 / 3x6 🚿 13 12 11 9 8 3x6 = 0-0-5 21-0-12

			1						
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	I/defl	L/d	PLATES GRI	P
TCLL	20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) n/a	a -	n/a	999	MT20 197/	144
TCDL	10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) n/s	a -	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 102 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

2x4 SP No.3 *Except* **OTHERS** 4-10: 2x4 SP No.2 or 2x4 SPF No.2 BRACING-

TOP CHORD BOT CHORD **WEBS**

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

1 Row at midpt 4-10

REACTIONS. All bearings 21-0-7.

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

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-144(LC 10), 13=-106(LC 10), 9=-144(LC 11),

8=-107(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=390(LC 20), 12=428(LC 17), 13=280(LC 17),

9=428(LC 18), 8=280(LC 18)

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

WFBS 3-12=-288/193, 5-9=-287/193

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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.
- 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=144, 13=106, 9=144, 8=107.



October 19,2022



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792755 32379-32379A V9 Valley Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:47 2022 Page 1 ID:ED3wuaDFL2j3tbolojiMjZyqmu4-O5Gx_jCNvNl19Z6hCy1iZdZC3seWgVAZqb55wdyS6EU 9-4-2 9-4-2 4x6 = Scale = 1:49.0 3 10.00 12 2x4 || 2x4 || 3x6 / 3x6 N 9 8 7 6 3x6 =2x4 || 2x4 || 2x4 || 18-8-4 0-0-5 18-7-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL 1.15 999 197/144 **TCLL** TC 0.31 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 85 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

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

3-7: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 18-7-11.

Max Horz 1=-157(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 9=-177(LC 10), 6=-177(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=354(LC 20), 9=520(LC 17), 6=520(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 2-9=-347/229, 4-6=-346/229

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 177 lb uplift at joint 9 and 177 lb uplift at joint 6.



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

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



Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792756 32379-32379A V10 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:35 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-knYOTc3rkhnkjiCNVRpu454AZ0Z1s4lo4jASUJyS6Eg 8-1-12 8-1-12 Scale = 1:42.8 4x6 = 3 10.00 12 2x4 || 2x4 || 2-6-9 0-0-4 3x6 ❖ 3x6 // 9 10 8 7 11 6 3x6 = 2x4 || 2x4 | 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 197/144 **TCLL** TC 0.21 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 72 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 *Except* **OTHERS** 3-7: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS. All bearings 16-2-14.

Max Horz 1=-136(LC 6) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-151(LC 10), 6=-151(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=357(LC 20), 9=422(LC 17), 6=422(LC 18)

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

2-9=-295/196, 4-6=-294/196 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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.
- 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=151, 6=151,



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

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

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

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

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



Job Truss Truss Type Qty 50 SERENITY - roof 154792757 32379-32379A V11 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:36 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZyqmu4-D_5mgy4TV_vbLsmZ39K7cJcLrQvAbXIyINw?1myS6Ef 13-10-11 6-11-5 6-11-5 Scale = 1:36.8 4x6 = 3 10.00 12 2x4 || 2x4 | 3x6 📏 3x6 / 7 8 6 2x4 || 2x4 || 2x4 || 13-10-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 999 197/144 **TCLL** TC 0.18 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 59 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 **OTHERS**

REACTIONS.

All bearings 13-10-1.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-132(LC 10), 6=-131(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=331(LC 17), 6=331(LC 18)

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

2-8=-258/173, 4-6=-258/173 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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 3-6-0 tall by 2-0-0 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=132. 6=131.



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

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



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

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Job Truss Truss Type Qty 50 SERENITY - roof 154792758 32379-32379A V12 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:37 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-hAf9tl55Gl1Sz0LmdssM9W9WTqFLK__5X1fZZCyS6Ee 5-8-15 5-8-15 Scale = 1:30.5 4x6 = 3 10.00 12 2x4 || 2x4 || 3x6 // 8 6 3x6 💸 2x4 || 2x4 || 2x4 || 11-5-9

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

n/a

n/a

n/a

(loc)

5

n/a

n/a

0.00

L/d

999

999

n/a

PLATES

Weight: 47 lb

MT20

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

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

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 2x4 SP No.2 or 2x4 SPF No.2

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

20.0

10.0

0.0

10.0

REACTIONS. All bearings 11-5-4.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-129(LC 10), 6=-128(LC 11) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=314(LC 17), 6=314(LC 18)

CSI.

TC

ВС

WB

Matrix-S

0.19

0.12

0.06

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

2-8=-255/174, 4-6=-255/173 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.

2-0-0

1.15

1.15

YES

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=129, 6=128,



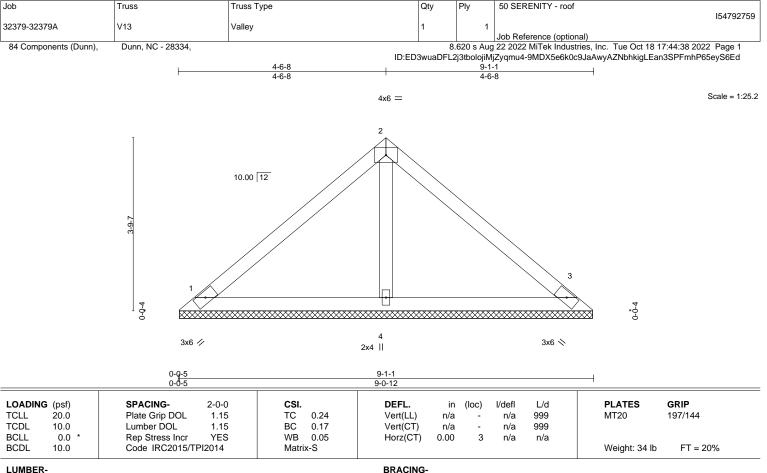


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 **OTHERS**

1=9-0-7, 3=9-0-7, 4=9-0-7 (size) Max Horz 1=-73(LC 6)

Max Uplift 1=-17(LC 11), 3=-26(LC 11)

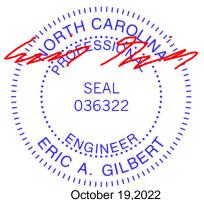
Max Grav 1=175(LC 1), 3=175(LC 1), 4=312(LC 1)

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

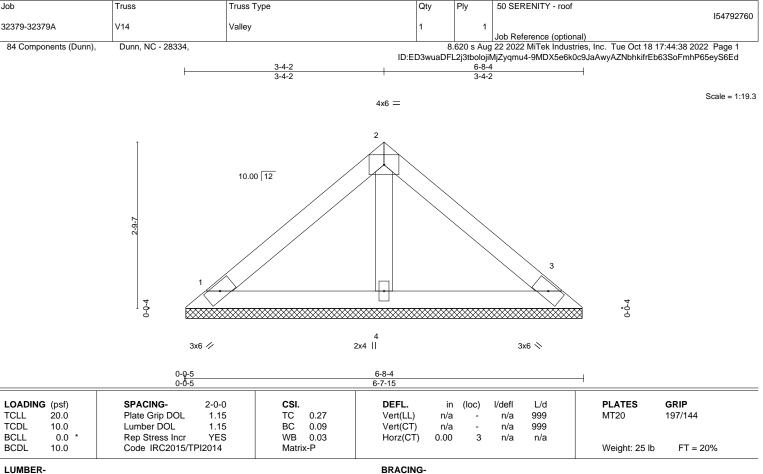
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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TOP CHORD

BOT CHORD

50 SERENITY - roof

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

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

LUMBER-

Job

Truss

TOP CHORD 2x4 SP No.3

2x4 SP No.2 or 2x4 SPF No.2 BOT CHORD

2x4 SP No.3 **OTHERS**

REACTIONS.

1=6-7-11, 3=6-7-11, 4=6-7-11 (size)

Max Horz 1=-52(LC 6) Max Uplift 1=-18(LC 10), 3=-25(LC 11)

Max Grav 1=134(LC 1), 3=134(LC 1), 4=202(LC 1)

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

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







Job Truss Truss Type Qty Ply 50 SERENITY - roof 154792761 32379-32379A V15 Valley Job Reference (optional) 8.620 s Aug 22 2022 MiTek Industries, Inc. Tue Oct 18 17:44:39 2022 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ED3wuaDFL2j3tbolojiMjZygmu4-dZnvI_6MnvHACKV8kHugExEtUevsovUO?L8ge4yS6Ec 2-1-12 2-1-12 3x6 = Scale = 1:11.7 10.00 12 -9-7 3 0-0-4 0-0-4 3x6 💉 3x6 // Plate Offsets (X,Y)--[2:0-3-0,Edge] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d 244/190 TCLL 20.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) 999 MT20 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(CT) n/a n/a 999 BCLL 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 13 lb LUMBER-**BRACING-**TOP CHORD 2x4 SP No.3 TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins. 2x4 SP No.3 **BOT CHORD** BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS.

1=4-2-14, 3=4-2-14 (size)

Max Horz 1=-31(LC 6) Max Uplift 1=-5(LC 10), 3=-5(LC 11) Max Grav 1=139(LC 1), 3=139(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; 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 ;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.
- * 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



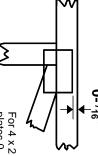


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



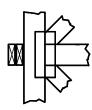
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



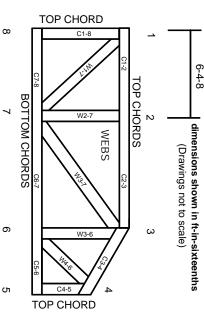
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

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

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

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