



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

RE: ASPEN - Aspen_EMERY

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Mattamy Southeast Florida Division Project Name: ASPEN Model: ASPEN MASTER
Lot/Block: . Subdivision: EMERY
Address: ., .
City: Port Saint Lucie State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 165 mph
Roof Load: 50.0 psf Floor Load: N/A psf

This package includes 73 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

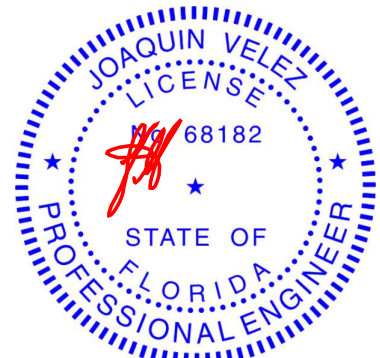
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T25235167	A1	9/2/21	23	T25235189	AH12	9/2/21
2	T25235168	A2	9/2/21	24	T25235190	AH12T	9/2/21
3	T25235169	A3	9/2/21	25	T25235191	AH13	9/2/21
4	T25235170	A3A	9/2/21	26	T25235192	AH13T	9/2/21
5	T25235171	A4	9/2/21	27	T25235193	AH14	9/2/21
6	T25235172	A5	9/2/21	28	T25235194	AH14T	9/2/21
7	T25235173	A6	9/2/21	29	T25235195	AH15	9/2/21
8	T25235174	A7	9/2/21	30	T25235196	AH15T	9/2/21
9	T25235175	A8	9/2/21	31	T25235197	AH16	9/2/21
10	T25235176	A9	9/2/21	32	T25235198	AH17	9/2/21
11	T25235177	AGE	9/2/21	33	T25235199	AH17T	9/2/21
12	T25235178	AH4	9/2/21	34	T25235200	AT	9/2/21
13	T25235179	AH6	9/2/21	35	T25235201	B	9/2/21
14	T25235180	AH7	9/2/21	36	T25235202	BGE	9/2/21
15	T25235181	AH7T	9/2/21	37	T25235203	CJ1	9/2/21
16	T25235182	AH8	9/2/21	38	T25235204	CJ3	9/2/21
17	T25235183	AH9	9/2/21	39	T25235205	CJ3A	9/2/21
18	T25235184	AH9T	9/2/21	40	T25235206	CJ3T	9/2/21
19	T25235185	AH10	9/2/21	41	T25235207	CJ5	9/2/21
20	T25235186	AH10T	9/2/21	42	T25235208	CJ5A	9/2/21
21	T25235187	AH11	9/2/21	43	T25235209	CJ5B	9/2/21
22	T25235188	AH11T	9/2/21	44	T25235210	CJ5T	9/2/21

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Plant City, FL).

Truss Design Engineer's Name: Velez, Joaquin

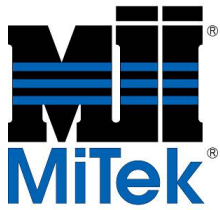
My license renewal date for the state of Florida is February 28, 2023.

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.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2, 2021



RE: ASPEN - Aspen_EMERY

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Mattamy Southeast Florida Division Project Name: ASPEN Model: ASPEN MASTER
Lot/Block: . Subdivision: EMERY
Address: ., .
City: Port Saint Lucie State: FL

No.	Seal#	Truss Name	Date
45	T25235211	DH7	9/2/21
46	T25235212	EJ4	9/2/21
47	T25235213	EJ5	9/2/21
48	T25235214	EJ7	9/2/21
49	T25235215	EJ7T	9/2/21
50	T25235216	HJ4	9/2/21
51	T25235217	HJ5	9/2/21
52	T25235218	HJ7	9/2/21
53	T25235219	HJ7T	9/2/21
54	T25235220	K	9/2/21
55	T25235221	K1	9/2/21
56	T25235222	K1A	9/2/21
57	T25235223	K2	9/2/21
58	T25235224	K3	9/2/21
59	T25235225	K4	9/2/21
60	T25235226	L	9/2/21
61	T25235227	L1	9/2/21
62	T25235228	L2	9/2/21
63	T25235229	LGR	9/2/21
64	T25235230	MH7	9/2/21
65	T25235231	N	9/2/21
66	T25235232	NH7	9/2/21
67	T25235233	NH9	9/2/21
68	T25235234	VT1	9/2/21
69	T25235235	VT2	9/2/21
70	T25235236	VT3	9/2/21
71	T25235237	VT4	9/2/21
72	T25235238	VT5	9/2/21
73	T25235239	VT6	9/2/21

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	A1	Common	81	1	T25235167

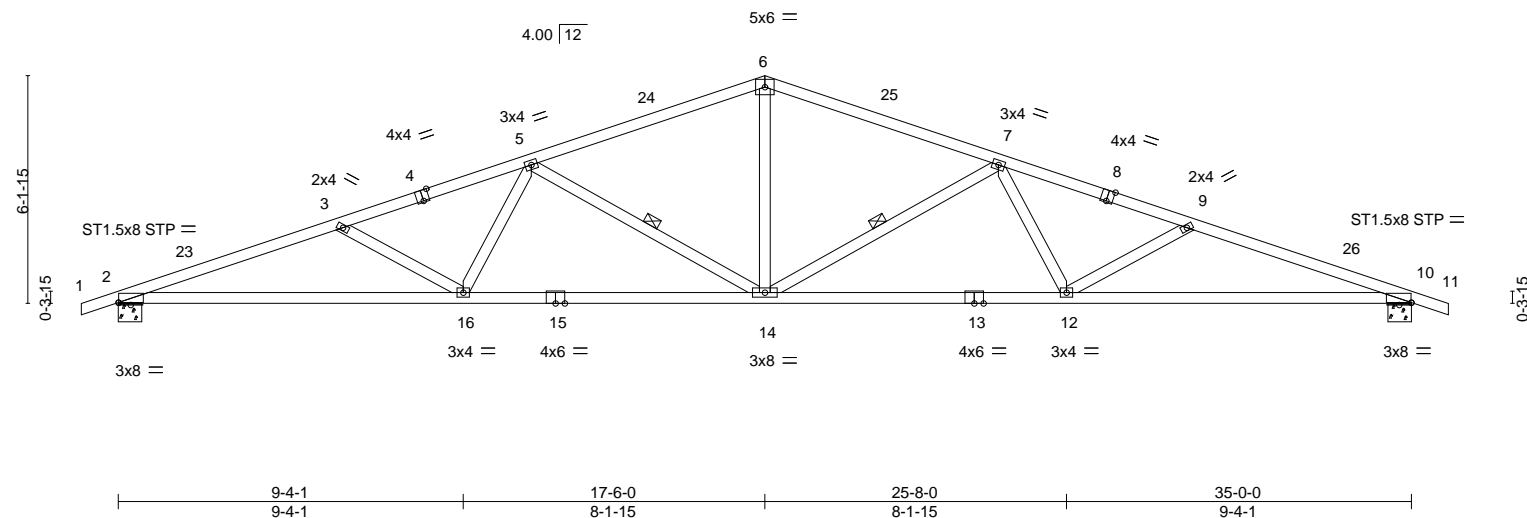
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:35:57 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-Myh?Y8zbVG4a2zJ?T8KI23sCDnekopN6iBErv5yhhwW

1-0-0	6-1-0	11-2-2	17-6-0	23-9-14	28-11-1	35-0-0	36-0-0
1-0-0	6-1-0	5-1-3	6-3-14	6-3-14	5-1-3	6-1-0	1-0-0

Scale = 1:62.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.25	BC 0.91	Vert(LL) 0.37 14 >999 240		
BCLL 10.0 *	Lumber DOL 1.25	WB 0.45	Vert(CT) -0.62 14-16 >681 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.16 10 n/a n/a		
	Code FBC2020/TPI2014			Weight: 163 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 13-15: 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-14, 5-14

REACTIONS.

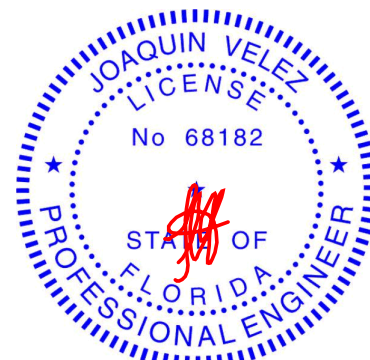
(size) 2=0-7-10, 10=0-7-10
 Max Horz 2=155(LC 8)
 Max Uplift 2=755(LC 10), 10=755(LC 10)
 Max Grav 2=1552(LC 17), 10=1552(LC 17)

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

TOP CHORD 2-3=-3897/2616, 3-5=-3563/2338, 5-6=-2478/1782, 6-7=-2478/1782, 7-9=-3563/2338,
 9-10=-3897/2616
 BOT CHORD 2-16=-2350/3682, 14-16=-1899/3086, 12-14=-1899/3086, 10-12=-2350/3682
 WEBS 6-14=-645/1209, 7-14=-968/707, 7-12=-156/592, 9-12=-428/442, 5-14=-967/707,
 5-16=-156/591, 3-16=-428/442

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 10=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

September 2,2021

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

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

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235168
ASPEN	A2	Roof Special	7	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

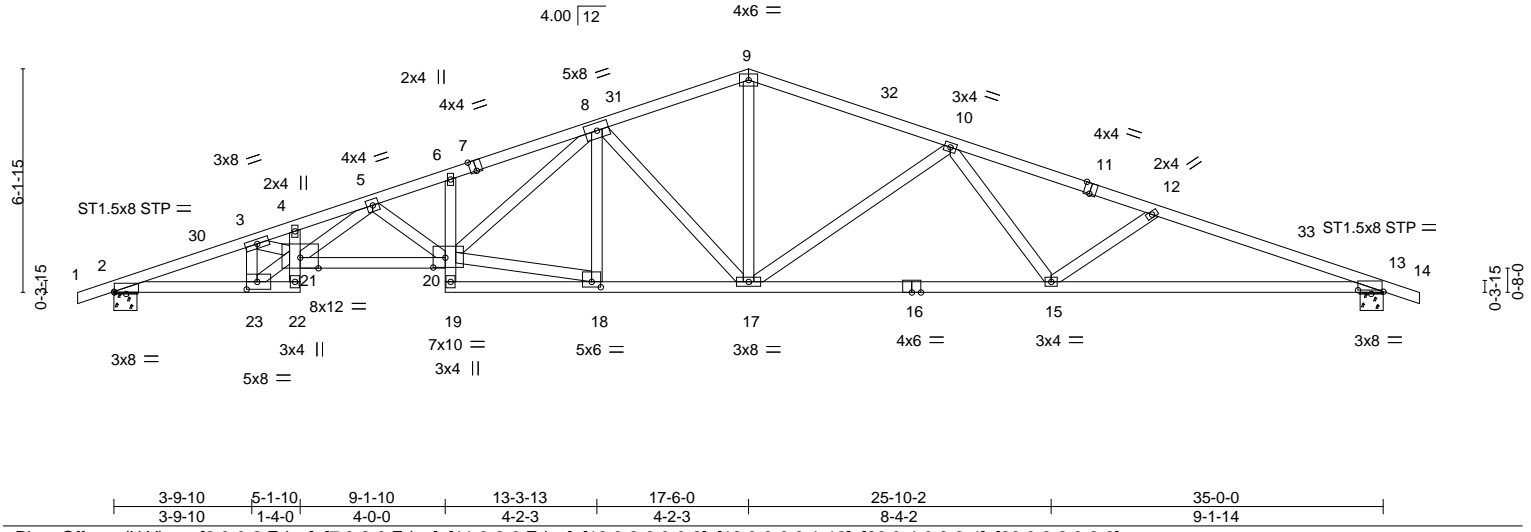
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:35:58 2021 Page 1

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Job Reference (optional)

1-0-0	3-9-10	5-1-10	7-1-10	9-1-10	13-3-13	17-6-0	23-0-12	28-7-8	35-0-0	36-0-0
1-0-0	3-9-10	1-4-0	2-0-0	2-0-0	4-2-3	4-2-3	5-6-12	5-6-12	6-4-8	1-0-0

Scale: 3/16"=1'



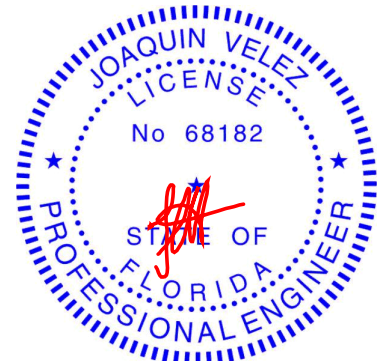
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	0.49 20	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.78 15-17				
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.24 13				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied.
	20-21,13-16: 2x4 SP No.1, 6-19: 2x4 SP No.3		
WEBS	2x4 SP No.3 *Except*		
	21-23: 2x4 SP No.2		

REACTIONS.	
(size)	2=0-7-10, 13=0-7-10
Max Horz	2=-179(LC 8)
Max Uplift	2=-755(LC 10), 13=-755(LC 10)
Max Grav	2=-1573(LC 15), 13=-1573(LC 16)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-4088/2668, 3-4=-6159/3973, 4-5=-6426/4154, 5-6=-4426/2980, 6-8=-4314/2989, 8-9=-2447/1822, 9-10=-2459/1810, 10-12=-3584/2379, 12-13=-3892/2636
BOT CHORD	2-23=-2424/3988, 22-23=-496/736, 20-21=-3056/4977, 18-19=-296/495, 17-18=-1704/2828, 15-17=-1860/2969, 13-15=-2367/3674
WEBS	3-23=-1944/1249, 21-23=-2211/3730, 3-21=-1313/2174, 5-21=-911/1606, 5-20=-907/607, 18-20=-1427/2365, 8-20=-1126/1833, 8-18=-314/281, 8-17=-833/588, 9-17=-768/1284, 10-17=-928/688, 10-15=-227/718, 12-15=-449/464

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-6-0, Interior(1) 2-6-0 to 14-0-0, Exterior(2R) 14-0-0 to 21-0-0, Interior(1) 21-0-0 to 32-6-0, Exterior(2E) 32-6-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) except (jt=lb) 2=755, 13=755.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2,2021

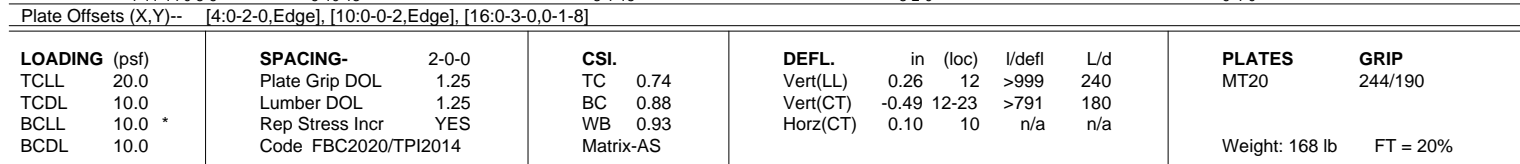
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



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Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:35:59 2021 Page 1
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 1-0-0 2-5-4 11-0-14 17-6-0 23-11-2 28-11-1 35-0-0 36-0-0
 1-0-0 2-5-4 8-7-9 6-5-2 6-5-2 4-11-15 6-0-15 1-0-0
 Scale = 1:62.4



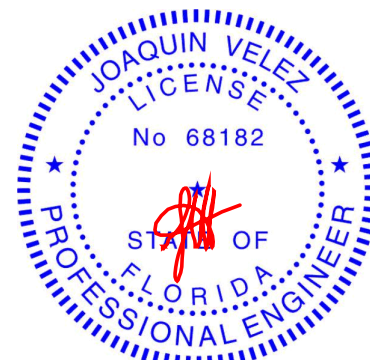
REACTIONS. (size) 2=0-7-10, 17=0-8-0, 10=0-7-10
 Max Horz 2=-155(LC 8)
 Max Uplift 2=-115(LC 15), 17=-822(LC 10), 10=-698(LC 10)
 Max Grav 2=41(LC 7), 17=1785(LC 17), 10=1428(LC 17)

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

TOP CHORD	2-3=-194/292, 3-5=-2493/1597, 5-6=-2094/1527, 6-7=-2089/1520, 7-9=-3178/2085, 9-10=-3510/2359
BOT CHORD	14-16=-1416/2317, 12-14=-1666/2735, 10-12=-2106/3316
WEBS	3-17=-1587/1305, 3-16=-1495/2485, 5-16=-149/294, 5-14=-529/431, 6-14=-501/978, 7-14=-983/721, 7-12=-151/583, 9-12=-424/435

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=115, 17=822, 10=698.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2, 2021



WARNING - Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 70



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235170
ASPEN	A3A	Roof Special	2	1		

Builders FirstSource (Plant City, FL),
Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:01 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-EjxWOW05ZUa0Xbdmi_OhCv1sPP1rkYvidpC33tyhhwS

1-0-0
1-0-0

2-5-4
2-5-4

5-1-10
2-8-6

7-2-8
2-0-14

9-1-10
1-11-2

13-3-13
4-2-3

17-6-0
4-2-3

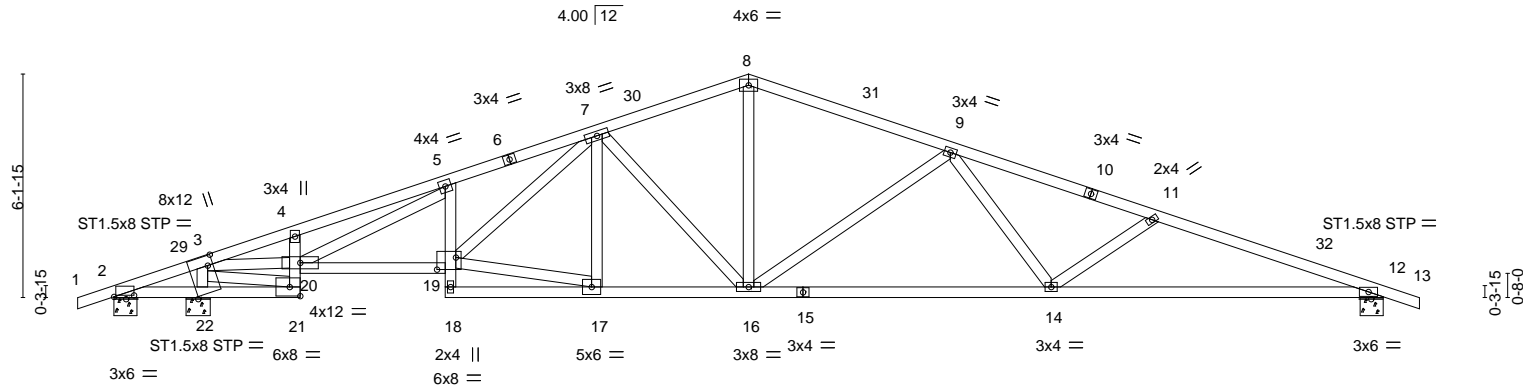
23-0-12
5-6-12

28-7-8
5-6-12

35-0-0
6-4-8

36-0-0
1-0-0

Scale: 3/16"=1'



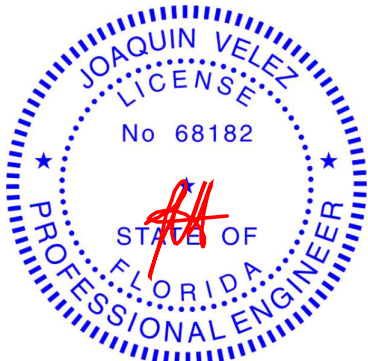
	1-11-14 2-5-4 1-11-14 0-5-6	5-1-10 2-8-6	9-1-10 4-0-0	13-3-13 4-2-3	17-6-0 4-2-3	25-10-2 8-4-2	35-0-0 9-1-14							
Plate Offsets (X,Y)-- [2:0-6-10,0-0-8], [3:0-3-4,0-1-12], [19:0-6-4,0-4-0]														
LOADING (psf)	SPACING-		2-0-0	CSI.	DEFL.			in (loc)	l/defl	L/d	PLATES	GRIP		
	TCLL	20.0	Plate Grip DOL		1.25	TC	0.74	Vert(LL)	-0.24	14-16			>999	240
	TCDL	10.0	Lumber DOL		1.25	BC	0.77	Vert(CT)	-0.48	14-16			>813	180
	BCLL	10.0 *	Rep Stress Incr		YES	WB	0.80	Horz(CT)	0.11	12			n/a	n/a
	BCDL	10.0	Code FBC2020/TPI2014			Matrix-AS								
											Weight: 189 lb	FT = 20%		

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied.
4-21,5-18: 2x4 SP No.3, 12-15: 2x4 SP No.1	
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-7-10, 22=0-8-0, 12=0-7-10
Max Horz 2=155(LC 8)
Max Uplift 2=836(LC 17), 22=1123(LC 10), 12=677(LC 10)
Max Grav 2=290(LC 10), 22=2567(LC 17), 12=1373(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1726/2713, 3-4=-1129/754, 4-5=-1299/919, 5-7=-2571/1835, 7-8=-1882/1434,
8-9=-1895/1423, 9-11=-3028/1993, 11-12=-3340/2252
BOT CHORD 2-22=-2540/1711, 21-22=-2042/1376, 20-21=-785/570, 19-20=-1464/2477,
17-18=-162/272, 16-17=-1119/1933, 14-16=-1492/2437, 12-14=-2004/3152
WEBS 3-22=-2343/1581, 3-20=-643/1207, 17-19=-977/1695, 7-19=-412/695, 7-17=-268/241,
7-16=-344/265, 8-16=-527/925, 9-16=-892/682, 9-14=-231/706, 11-14=-441/467,
5-20=-1471/936, 3-21=-1395/2062

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) except (jt=lb) 2=836, 22=1123, 12=677.
 - 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 2,2021

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235171
ASPEN	A4	Common	4	1		

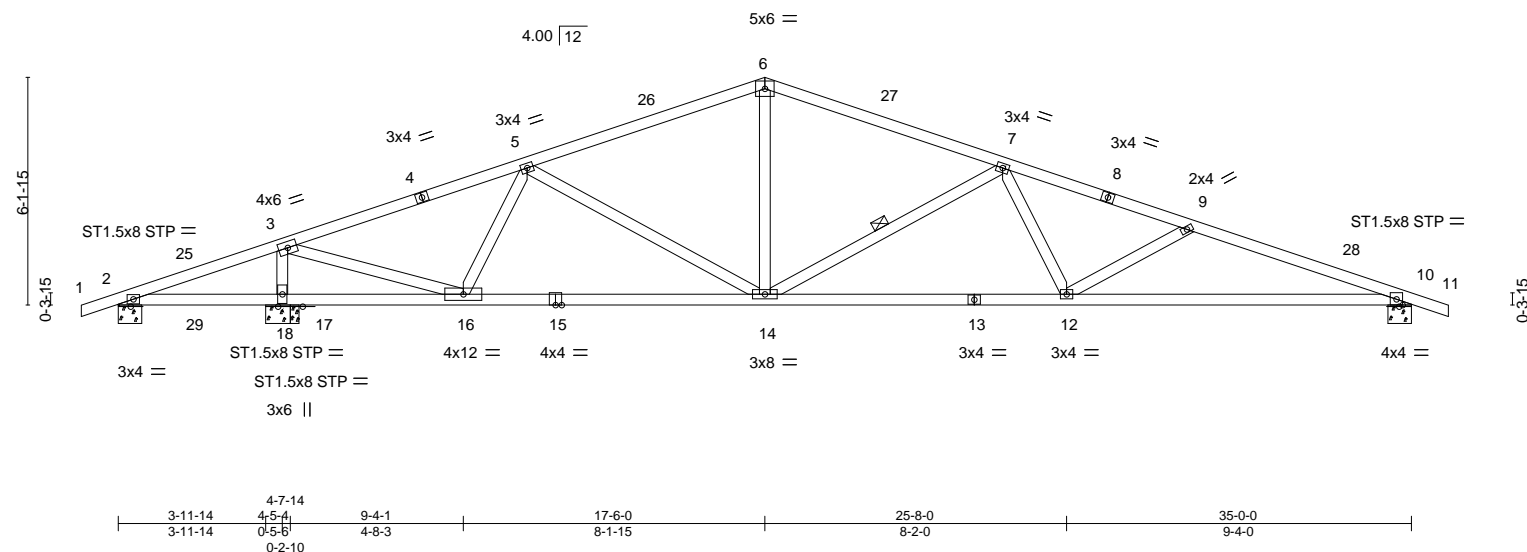
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:02 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-ivVubs1kJoit8kCyGhvw17Z3joNAT_trsTycbJyhhwR

1-0-0	4-5-4	11-0-13	17-6-0	23-11-4	28-11-1	35-0-0	36-0-0
1-0-0	4-5-4	6-7-8	6-5-4	6-5-4	4-11-14	6-0-15	1-0-0

Scale = 1:62.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.22 12-24	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.44 12-24	>819	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-AS					Weight: 166 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 13-15: 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-14

REACTIONS.

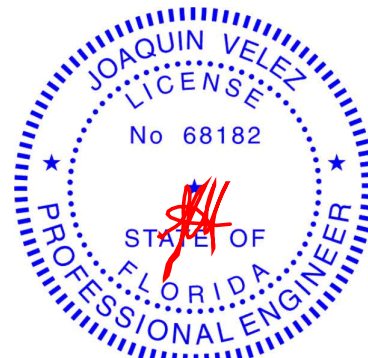
(size) 2=0-7-10, 18=0-8-0, 10=0-7-10, 17=0-2-13
 Max Horz 2=155(LC 9)
 Max Uplift 2=223(LC 16), 18=1029(LC 10), 10=642(LC 10)
 Max Grav 18=1677(LC 2), 10=1302(LC 16), 17=429(LC 17)

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

TOP CHORD 2-3=-676/1114, 3-5=-1370/911, 5-6=-1692/1265, 6-7=-1690/1263, 7-9=-2780/1830,
 9-10=-3117/2106
 BOT CHORD 2-18=-1010/715, 17-18=-1010/715, 16-17=-1010/715, 14-16=-863/1488,
 12-14=-1422/2357, 10-12=-1868/2943
 WEBS 3-18=-1775/1324, 3-16=-1404/2362, 5-16=-583/561, 6-14=-318/713, 7-14=-983/719,
 7-12=-155/585, 9-12=-429/439

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TC DL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 at joint(s) 17.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=223, 18=1029, 10=642.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

September 2, 2021

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

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

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



6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235172
ASPEN	A5	Common	4	1		

Builders FirstSource (Plant City, FL),
Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:03 2021 Page 1

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1-0-0

5-6-8

11-0-14

17-6-0

23-11-2

29-1-9

35-0-0

36-0-0

1-0-0

5-6-8

5-6-5

6-5-2

6-5-2

5-2-7

5-10-7

1-0-0

Scale = 1:62.4

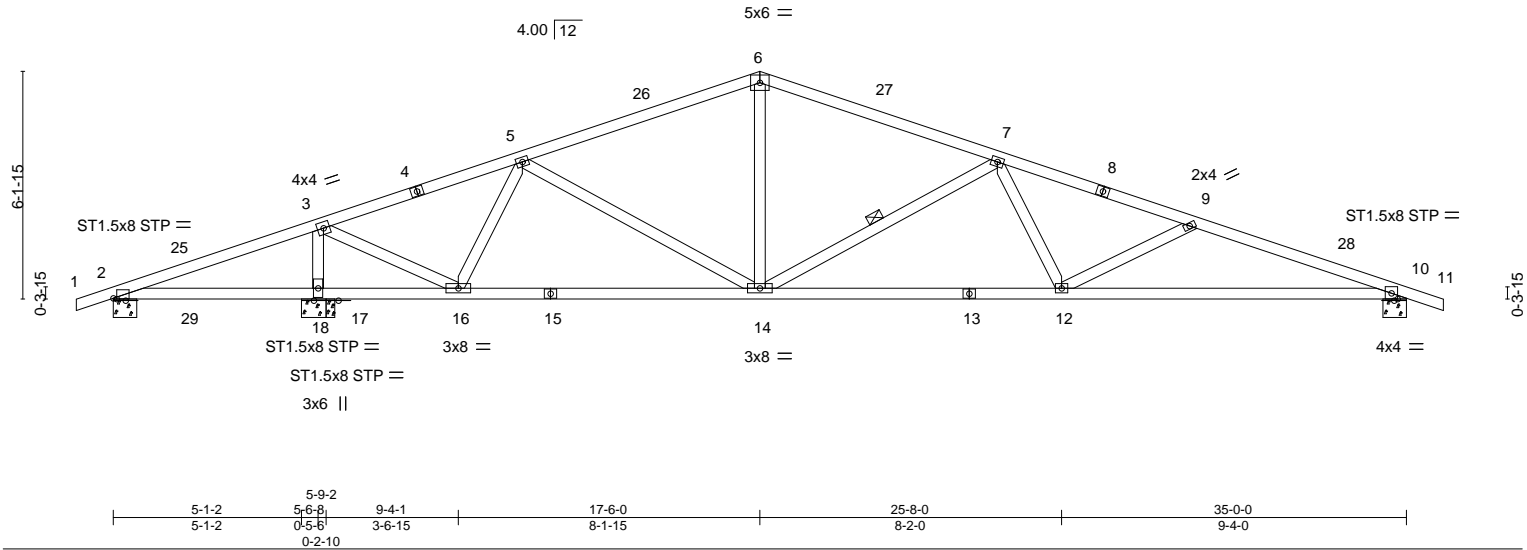


Plate Offsets (X,Y)--		[2:0-1-2,Edge]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55	Vert(LL)	-0.22 12-24	>999	240	MT20	244/190		
TCDL 10.0	Lumber DOL	1.25	BC 1.00	Vert(CT)	-0.45 12-24	>784	180				
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.06 10	n/a	n/a				
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS								
										Weight: 166 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 7-14

REACTIONS. All bearings 0-7-10 except (jt=length) 18=0-8-0, 17=0-2-13.

(lb) - Max Horz 2=155(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 2=-222(LC 16), 18=-1225(LC 10), 10=-614(LC 10), 17=-187(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 2 except 18=2078(LC 2), 10=1243(LC 16), 17=302(LC 9)

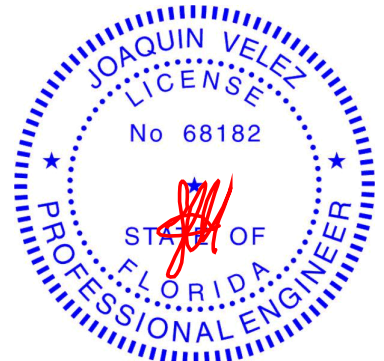
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-681/1190, 3-5=-817/586, 5-6=-1489/1134, 6-7=-1488/1135, 7-9=-2576/1696, 9-10=-2938/1998

BOT CHORD 2-18=-1081/736, 17-18=-1081/736, 16-17=-1081/736, 14-16=-587/1088, 12-14=-1302/2165, 10-12=-1768/2777

WEBS 3-18=-1805/1317, 3-16=-1160/2021, 5-16=-784/671, 5-14=-106/430, 6-14=-228/581, 7-14=-983/720, 7-12=-146/576, 9-12=-451/457

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 17.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 2, 1225 lb uplift at joint 18, 614 lb uplift at joint 10 and 187 lb uplift at joint 17.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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

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

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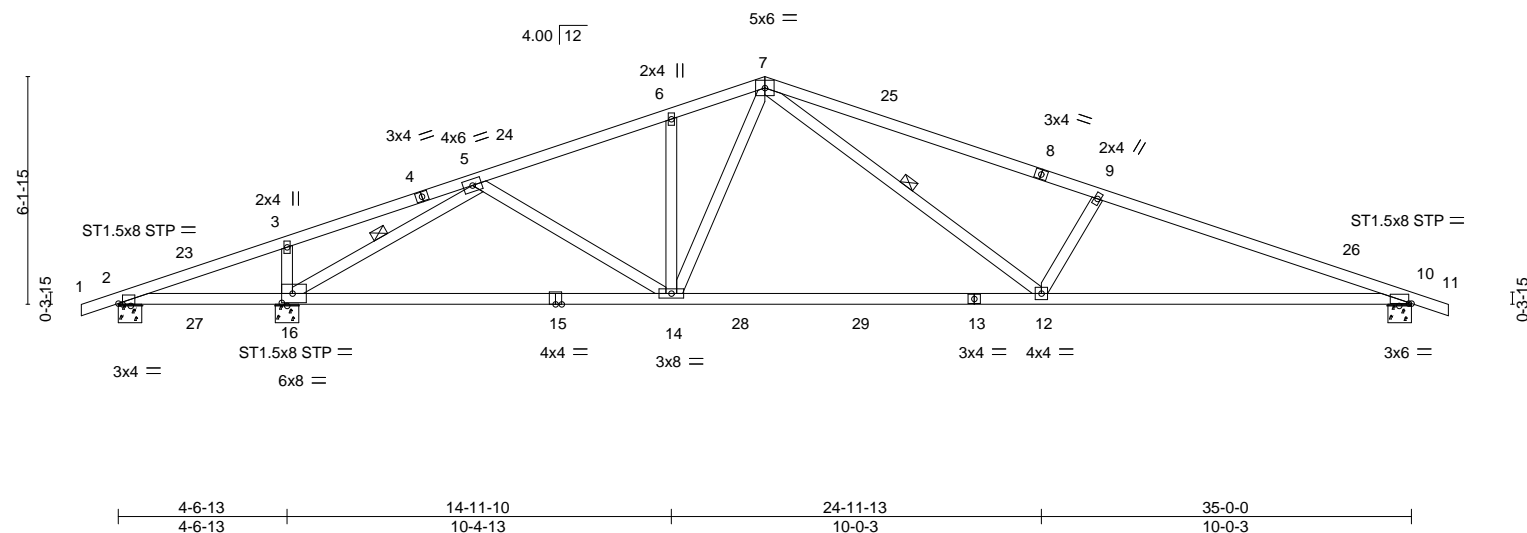
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235173
ASPEN	A6	Common	36	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:04 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-elde0Y3_rPybO2LLN6yOqYfL_c5Vxxg8JnRjCyhwwP

1-0-0	4-6-13	9-9-3	14-11-10	17-6-0	26-6-0	35-0-0	36-0-0
1-0-0	4-6-13	5-2-6	5-2-6	2-6-6	9-0-0	8-6-0	1-0-0

Scale = 1:62.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.85	Vert(LL)	-0.38 12-14	>964	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.65	Vert(CT)	-0.61 12-22	>602	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.07 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 164 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
7-8,8-11: 2x4 SP No.1
BOT CHORD 2x4 SP M 31
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-16, 7-12

REACTIONS.

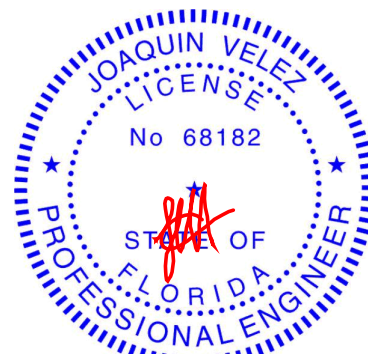
(size) 2=0-7-10, 16=0-7-10, 10=0-7-10
Max Horz 2=155(LC 9)
Max Uplift 2=163(LC 16), 16=893(LC 10), 10=651(LC 10)
Max Grav 2=66(LC 19), 16=2173(LC 2), 10=1554(LC 16)

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

TOP CHORD 2-3=-419/775, 3-5=-275/776, 5-6=-2208/1295, 6-7=-2170/1372, 7-9=-3387/1955,
9-10=-3593/2055
BOT CHORD 2-16=-739/474, 14-16=-847/1628, 12-14=-846/1868, 10-12=-1800/3387
WEBS 3-16=-310/428, 5-16=-2730/1565, 5-14=-38/575, 7-14=-82/577, 7-12=-803/1665,
9-12=-576/657

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 2, 893 lb uplift at joint 16 and 651 lb uplift at joint 10.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235174
ASPEN	A7	Common	2	1		

Builders FirstSource (Plant City, FL),
Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:05 2021 Page 1

1-0-0
5-1-10
11-0-14
17-6-0
23-11-2
28-11-1
35-0-0
36-0-0

1-0-0
5-1-10
5-11-3
6-5-2
6-5-2
4-11-15
6-0-15
1-0-0

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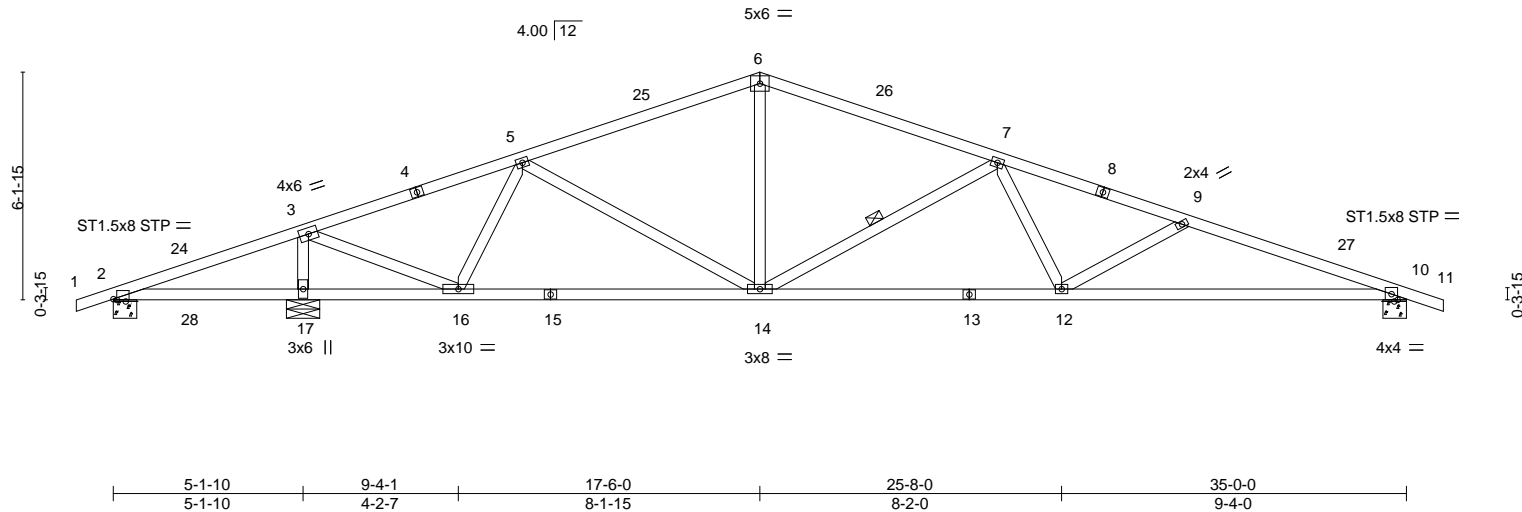


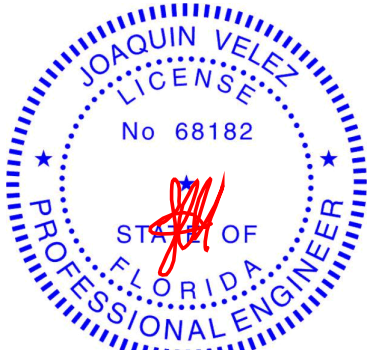
Plate Offsets (X,Y)-- [2:0-1-2,Edge]													
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d						PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.55	Vert(LL)	-0.21	12-23	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.43	12-23	>838	180			
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							Weight: 166 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied.
	13-15: 2x4 SP No.2	WEBS	1 Row at midpt 7-14
WEBS	2x4 SP No.3		

REACTIONS.	
(size)	2=0-7-10, 10=0-7-10, 17=0-10-13
Max Horz	2=-155(LC 8)
Max Uplift	2=-242(LC 16), 10=-623(LC 10), 17=-1004(LC 10)
Max Grav	10=1264(LC 16), 17=1973(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-685/1203, 3-5=-1021/655, 5-6=-1562/1169, 6-7=-1561/1168, 7-9=-2653/1733, 9-10=-2991/2012
BOT CHORD	2-17=-1096/733, 16-17=-1096/733, 14-16=-652/1236, 12-14=-1330/2234, 10-12=-1778/2824
WEBS	3-16=-1199/2185, 5-16=-714/658, 5-14=-67/357, 6-14=-251/628, 7-14=-983/716, 7-12=-156/587, 9-12=-431/442, 3-17=-1814/1290

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 2, 623 lb uplift at joint 10 and 1004 lb uplift at joint 17.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date: September 2,2021

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	A8	Common	2	1	T25235175

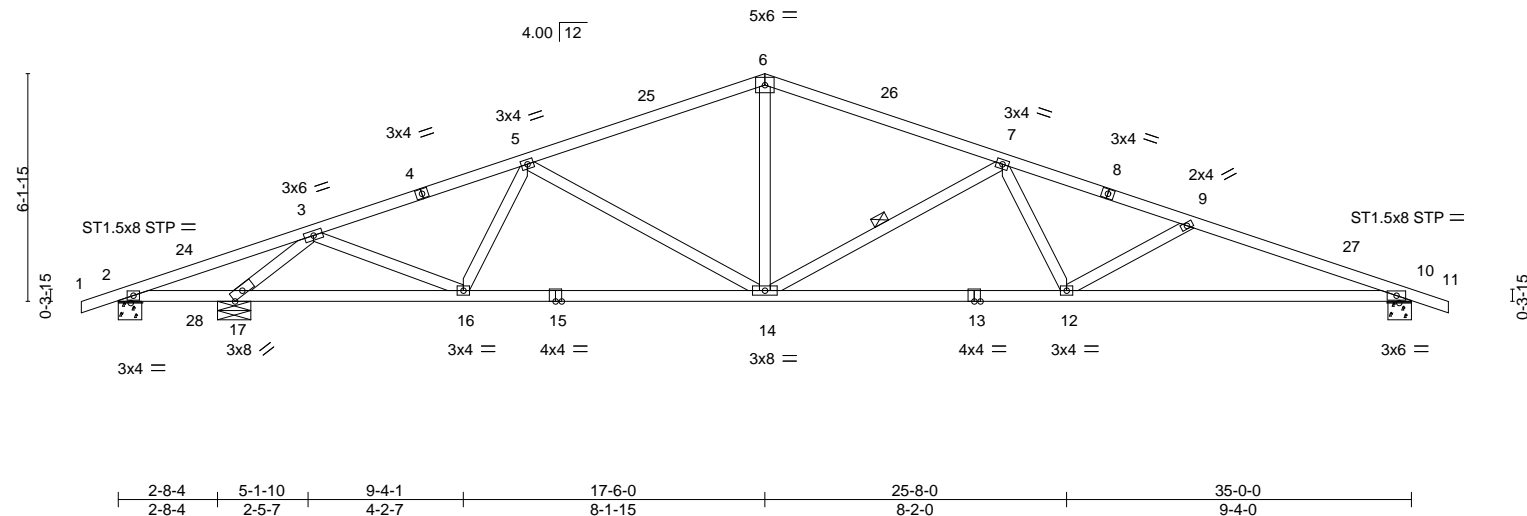
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:06 2021 Page 1

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1-0-0	5-1-10	11-0-14	17-6-0	23-11-2	28-11-1	35-0-0	36-0-0
1-0-0	5-1-10	5-11-3	6-5-2	6-5-2	4-11-15	6-0-15	1-0-0

Scale = 1:62.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.23 12-23	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.46 12-23	>829	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.09 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-AS					Weight: 167 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 13-15: 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 7-14

REACTIONS.

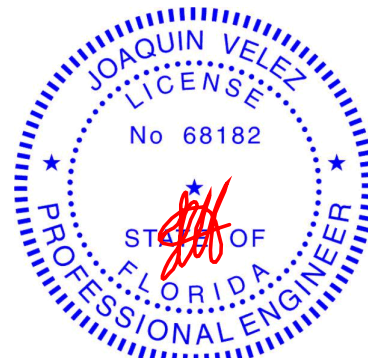
(size) 2=0-7-10, 10=0-7-10, 17=0-10-13
 Max Horz 2=-155(LC 8)
 Max Uplift 2=-447(LC 17), 10=-671(LC 10), 17=-995(LC 10)
 Max Grav 2=26(LC 10), 10=1358(LC 17), 17=2113(LC 2)

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

TOP CHORD 2-3=-1082/1716, 3-5=-1870/1267, 5-6=-1874/1394, 6-7=-1873/1393, 7-9=-2961/1956,
 9-10=-3296/2232
 BOT CHORD 2-17=-1591/1129, 16-17=-430/707, 14-16=-1115/1851, 12-14=-1542/2528,
 10-12=-1986/3113
 WEBS 3-16=-576/1218, 5-16=-334/372, 5-14=-298/221, 6-14=-394/825, 7-14=-982/715,
 7-12=-154/585, 9-12=-427/439, 3-17=-2891/2042

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 447 lb uplift at joint 2, 671 lb uplift at joint 10 and 995 lb uplift at joint 17.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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 Date:

September 2,2021

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ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
 Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235176
ASPEN	A9	Common Girder	2	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

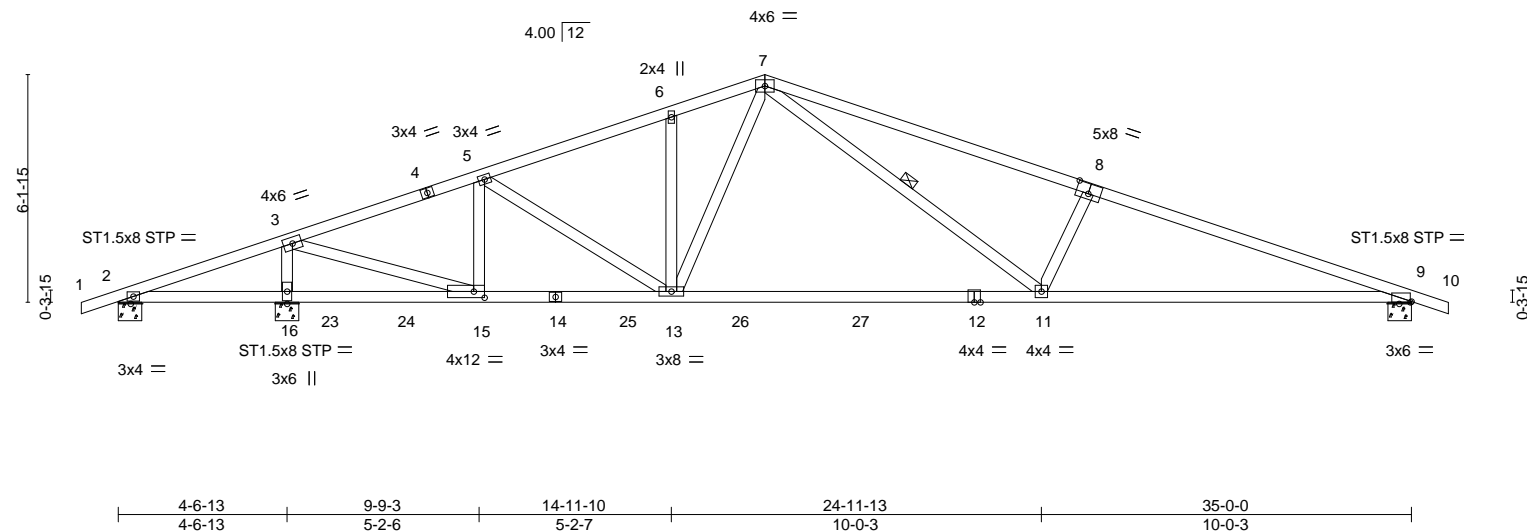
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:08 2021 Page 1

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Job Reference (optional)

1-0-0	4-6-13	9-9-3	14-11-10	17-6-0	26-3-0	35-0-0	36-0-0
1-0-0	4-6-13	5-2-6	5-2-7	2-6-6	8-9-0	8-9-0	1-0-0

Scale = 1:62.4



Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235176
ASPEN	A9	Common Girder	2	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:08 2021 Page 2
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-X3s9sv6UveT0sff6cy0K_Op2nDPZtiGkEPPxozyhhl

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 14=64(F) 15=64(F) 23=191(F) 24=64(F) 25=64(F)



Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:10 2021 Page 1
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35-0-0
1-0-0 1-10-12 4-6-13 9-9-3 14-11-10 17-6-0 24-9-0 28-5-13 32-11-8 33-1-4 36-0-0
1-0-0 1-10-12 2-6-5 5-2-6 5-2-7 2-6-6 7-3-0 3-8-13 4-5-11 0-1-12 1-0-0
2-0-8
0-1-12
1-10-12
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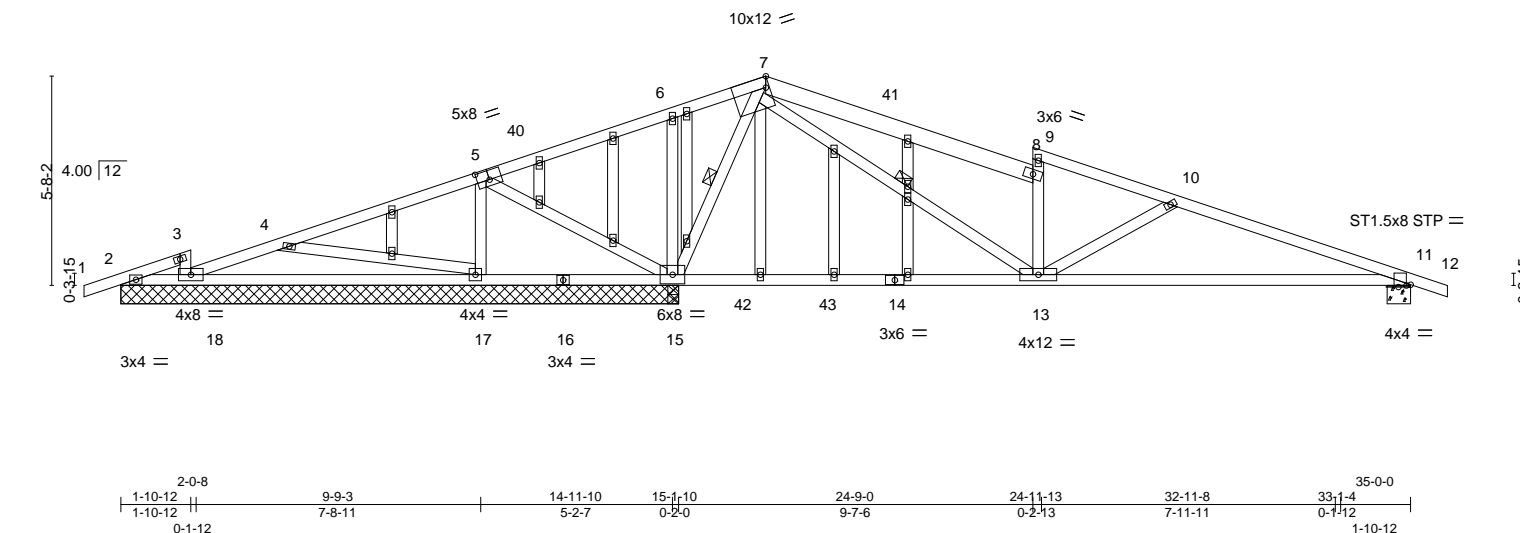


Plate Offsets (X,Y)-- [5:0-4-0,0-3-0], [7:0-1-3,Edge], [11:0-1-6,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.91	Vert(LL)	-0.33 13-15 >734	240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.54 13-39 >444	180	
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.86	Horz(CT)	-0.01 15 n/a	n/a	
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 207 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 7-8: 2x6 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP M 31 *Except* 2-16: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3 *Except* 9-13: 2x4 SP No.1	WEBS	1 Row at midpt 7-15, 7-13
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 15-1-10 except (jt=length) 11=0-7-10.
 (lb) - Max Horz 2=158(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 18 except 2=-157(LC 10), 17=-339(LC 22), 15=-1335(LC 10), 11=-440(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 2 except 17=318(LC 19), 15=3526(LC 17), 15=2757(LC 1), 11=999(LC 16), 18=494(LC 21)

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

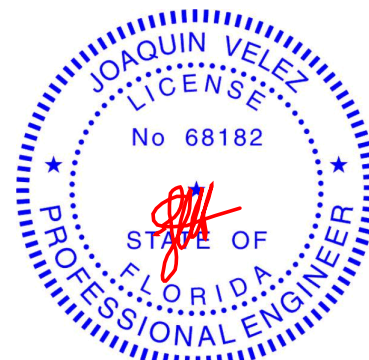
TOP CHORD 4-18=-285/229, 4-5=-367/987, 5-6=-753/2179, 6-7=-691/2179, 7-8=-1055/445,
9-10=-884/287, 10-11=-1540/628

BOT CHORD 17-18=-174/258, 15-17=-911/509, 13-15=-1011/554, 11-13=-499/1432

WEBS 4-17=-908/593, 5-17=-64/723, 5-15=-1322/552, 6-15=-318/220, 7-15=-2460/1021,
7-13=-842/2371, 8-13=-451/345, 10-13=-783/495

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; Gable Roof; Common Truss; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 1-9-0, Interior(1) 1-9-0 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; end vertical left and right exposed; porch left 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) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 2=157, 17=339, 15=1335, 11=440, 2=157.
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.




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Date:

September 2, 2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AGE	Common Structural Gable	4	1	T25235177
Job Reference (optional)					

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

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-90(F=-30), 7-18=-90(F=-30), 7-8=-90(F=-30), 9-12=-90(F=-30), 33-37=-20

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:33 2021 Page 1
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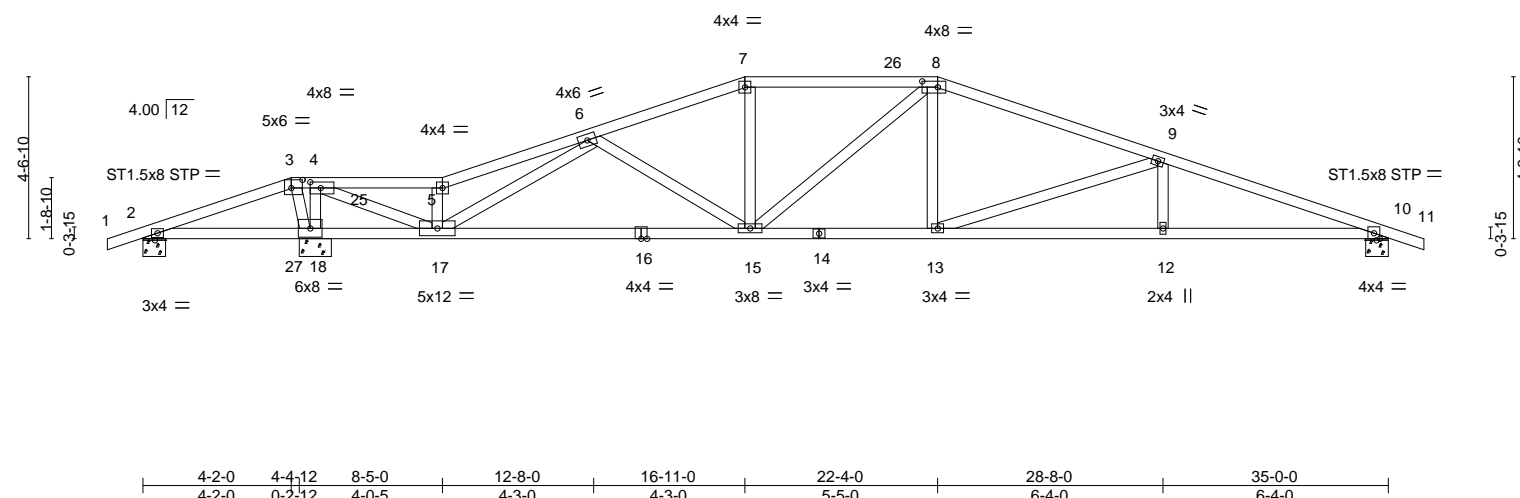


Plate Offsets (X,Y)-- [3:0-3-12,0-2-12], [4:0-3-8,0-2-0], [8:0-5-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.74	Vert(LL)	-0.23 15-17 >999 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.95	Vert(CT)	-0.48 15-17 >760 180		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.07 10 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MSH				Weight: 168 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
4-17: 2x4 SP No.2

BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 3-8-6 oc bracing.

REACTIONS. (size) 2=0-7-10, 18=0-10-13, 10=0-7-10
 Max Horiz 2=133(LC 24)
 Max Uplift 2=432(LC 14), 18=1051(LC 8), 10=617(LC 25)
 Max Grav 2=124(LC 25), 18=2396(LC 29), 10=1280(LC 14)

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

TOP CHORD 2-3=-825/1953, 3-4=-854/2105, 4-5=-872/384, 5-6=-991/480, 6-7=-1943/929,
7-8=-1822/917, 8-9=2108/1000, 9-10=-3084/1358

BOT CHORD 2-18=-1812/855, 17-18=-2099/962, 15-17=-763/1837, 13-15=-729/1962,
12-13=-1191/2895, 10-12=-1191/2895

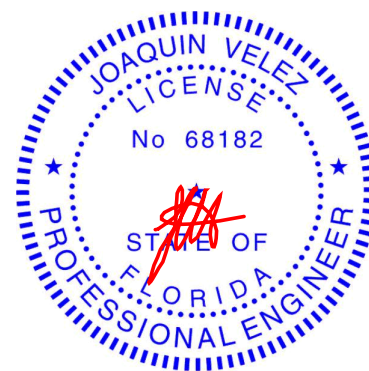
WEBS 4-18=-1435/686, 4-17=-1335/3212, 5-17=-427/311, 7-15=-69/375, 8-15=-303/108,
8-13=-104/501, 9-13=-1039/490, 9-12=0/273, 3-18=-831/368, 6-17=-1039/559

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCp=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=432, 18=1051, 10=617.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 120 lb down and 143 lb up at 4-2-0 on top chord, and 68 lb down and 29 lb up at 4-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-7=-60, 7-8=-60, 8-11=-60, 19-22=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2, 2021

Continued on page 2



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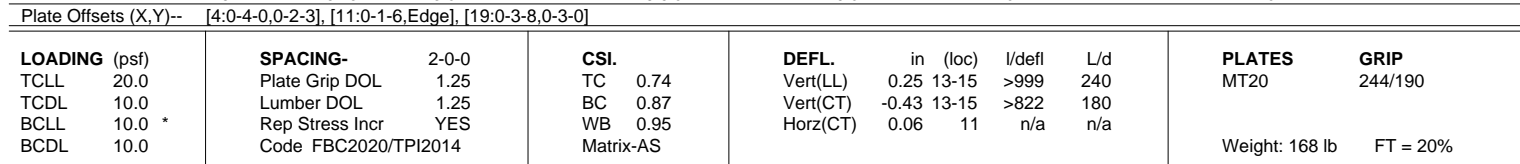


6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235178
ASPEN	AH4	Roof Special Girder	2	1	Job Reference (optional)	

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 3=-63(F) 27=-61(F)

Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:36 2021 Page 1
 ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-jSYkkUR2JF?2DzoUFqWu7H-raWzYRLrIgmBQnLyhhv
 1-0-0 6-2-0 10-5-0 14-8-0 18-11-0 20-4-0 27-8-0 35-0-0 36-0-0
 1-0-0 6-2-0 4-3-0 4-3-0 4-3-0 1-5-0 7-4-0 7-4-0 1-0-0
 Scale = 1:64.8



REACTIONS. (size) 2=0-7-10, 19=0-10-13, 11=0-7-10
 Max Horiz 2=152(LC 9)
 Max Uplift 2=-366(LC 16), 19=-982(LC 10), 11=-607(LC 10)
 Max Grav 2=79(LC 10), 19=2271(LC 15), 11=1255(LC 16)

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

TOP CHORD 2-3=-1198/1870, 3-4=-1057/1755, 4-5=-1267/962, 5-6=-1414/1114, 6-7=-1732/1371, 7-8=-1624/1365, 8-10=-1765/1346, 10-11=-2922/1995

BOT CHORD 2-19=-1701/1222, 18-19=-984/720, 16-18=-1119/1682, 15-16=-948/1620, 13-15=-1753/2737, 11-13=-1753/2737

WEBS 3-19=-398/405, 4-18=-1670/2527, 5-18=-647/630, 6-18=-467/393, 7-16=-224/408, 8-15=-93/327, 10-15=-1258/851, 10-13=0/315, 14-19=-840/1287

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDFL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-6-0, Exterior(2R) 2-6-0 to 9-8-0, Interior(1) 9-8-0 to 15-5-0, Exterior(2R) 15-5-0 to 23-10-0, Interior(1) 23-10-0 to 32-6-0, Exterior(2E) 32-6-0 to 36-0-0 zone; C-C for members and forces & MVFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=366, 19=982, 11=607.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
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Date:

September 2, 2021



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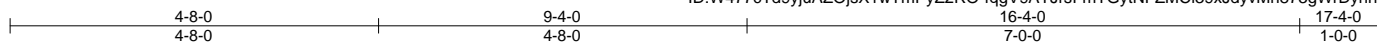
6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235180
ASPEN	AH7	Roof Special Girder	5	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:38 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-fggV9ATJrsFmTGytNFZMCi39xJdyvMh873gWrDyhhvt



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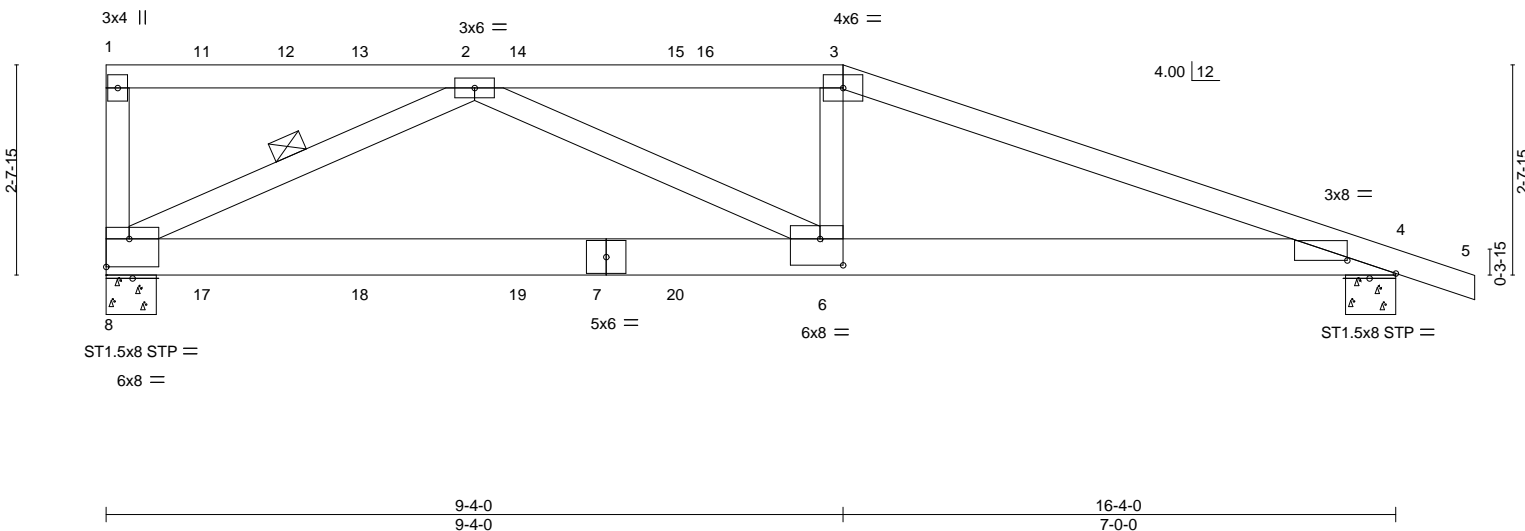


Plate Offsets (X,Y)--		[4:0-7-6,0-2-0], [6:0-3-8,0-4-0], [8:Edge,0-4-4]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.88	Vert(LL)	-0.16 6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.32 6-8	>599	180		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.05 4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix	MSH					Weight: 85 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
3-5: 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-10-9 oc bracing.
WEBS 1 Row at midpt 2-8

REACTIONS.

(size) 8=0-7-10, 4=0-7-10
Max Horz 8=163(LC 8)
Max Uplift 8=893(LC 8), 4=722(LC 8)
Max Grav 8=1728(LC 2), 4=1306(LC 2)

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

TOP CHORD 1-8=-400/319, 2-3=-3160/1579, 3-4=-3339/1613
BOT CHORD 6-8=-1191/2194, 4-6=-1415/3125
WEBS 2-8=-2324/1455, 2-6=-299/1082, 3-6=-35/549

NOTES-

- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=893, 4=722.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 164 lb down and 163 lb up at 0-1-12, 129 lb down and 176 lb up at 1-3-4, 129 lb down and 176 lb up at 3-3-4, 129 lb down and 176 lb up at 5-3-4, and 129 lb down and 176 lb up at 7-3-4, and 201 lb down and 356 lb up at 9-4-0 on top chord, and 86 lb down at 1-3-4, 86 lb down at 3-3-4, 86 lb down at 5-3-4, and 86 lb down at 7-3-4, and 448 lb down and 287 lb up at 9-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 4-8=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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 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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235180
ASPEN	AH7	Roof Special Girder	5	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:38 2021 Page 2
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-fqgV9ATJrsFmTGytNFZMCi39xJdyvMh873gWrDyhhvt

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-164(B) 3=-200(B) 6=-391(B) 11=-129(B) 13=-129(B) 14=-129(B) 15=-129(B) 17=-64(B) 18=-64(B) 19=-64(B) 20=-64(B)

6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AH7T	Roof Special Girder	3	1	T25235181
Job Reference (optional)					

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:40 2021 Page 2
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-bDoFarUZNTVUia5GUgbqH78T67NjNCZRbN9dw6yhhvr

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 4-5=-81, 10-11=-20, 8-12=-20

Concentrated Loads (lb)

Vert: 1=-162(B) 3=-474(B) 6=-182(B) 15=-129(B) 16=-115(B) 17=-115(B) 18=-115(B) 21=-64(B) 23=-79(B) 24=-79(B) 25=-79(B)

 **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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Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AH8	Roof Special	2	1	T25235182
Job Reference (optional)					

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:42 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-Xcv0?XWpv5lCxcuFec5dINYEskw1nr3?k2hek_?yhhvp

1-0-0	3-1-10	8-2-0	12-5-0	19-7-8	27-1-0	35-0-0	36-0-0
1-0-0	3-1-10	5-0-6	4-3-0	7-2-8	7-5-8	7-11-0	1-0-0

Scale = 1:64.8

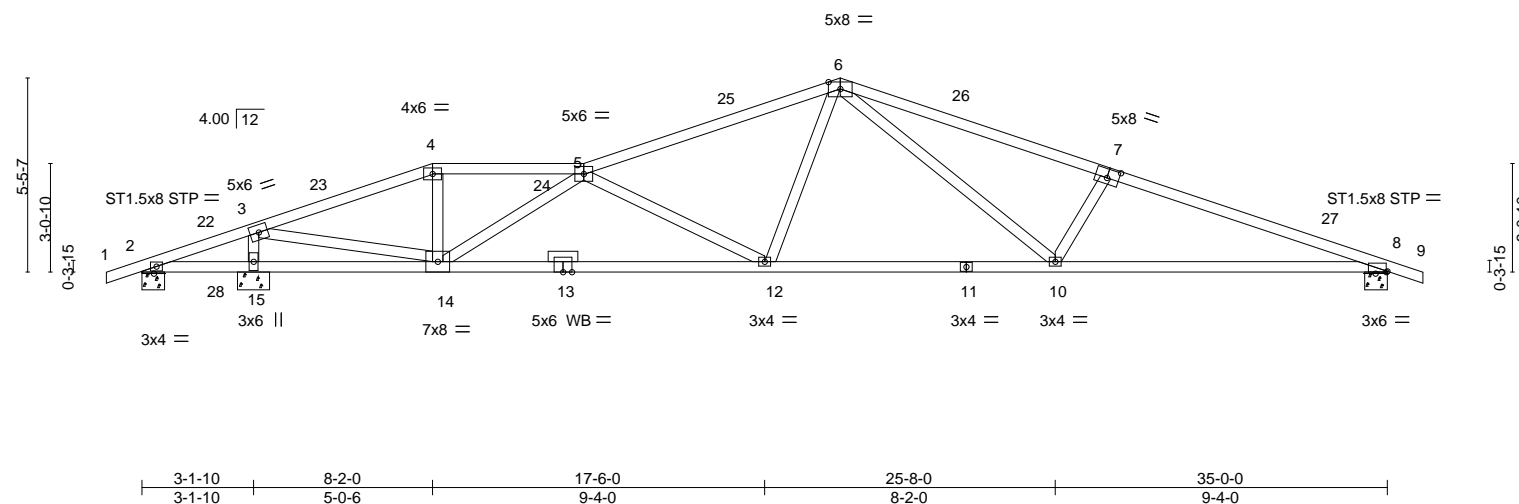


Plate Offsets (X,Y)-- [7:0-4-0,0-3-0], [8:0-0-6,Edge]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.28 12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.57 12-14	>671	180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.08 8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 162 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
3-14: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

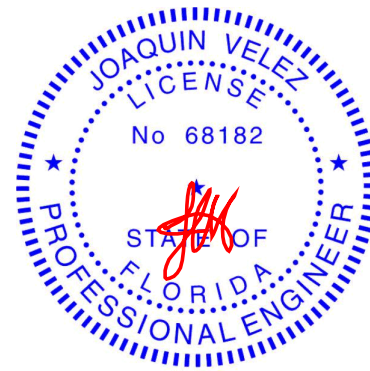
(size) 2=0-7-10, 15=0-10-13, 8=0-7-10
Max Horz 2=137(LC 8)
Max Uplift 2=364(LC 17), 15=988(LC 10), 8=672(LC 10)
Max Grav 2=22(LC 10), 15=2024(LC 2), 8=1368(LC 17)

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

TOP CHORD 2-3=891/1297, 3-4=1896/1318, 4-5=1793/1318, 5-6=2417/1729, 6-7=3036/2146,
7-8=3219/2232
BOT CHORD 2-15=1189/877, 14-15=1189/877, 12-14=1949/2845, 10-12=1213/2007,
8-10=1970/3029
WEBS 3-15=1871/1484, 3-14=1983/3000, 4-14=102/399, 5-14=1283/1062, 5-12=732/725,
6-12=267/683, 6-10=637/1120, 7-10=504/553

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-2-0, Exterior(2R) 5-2-0 to 11-2-0, Interior(1) 11-2-0 to 16-7-8, Exterior(2R) 16-7-8 to 22-7-8, Interior(1) 22-7-8 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=364, 15=988, 8=672.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

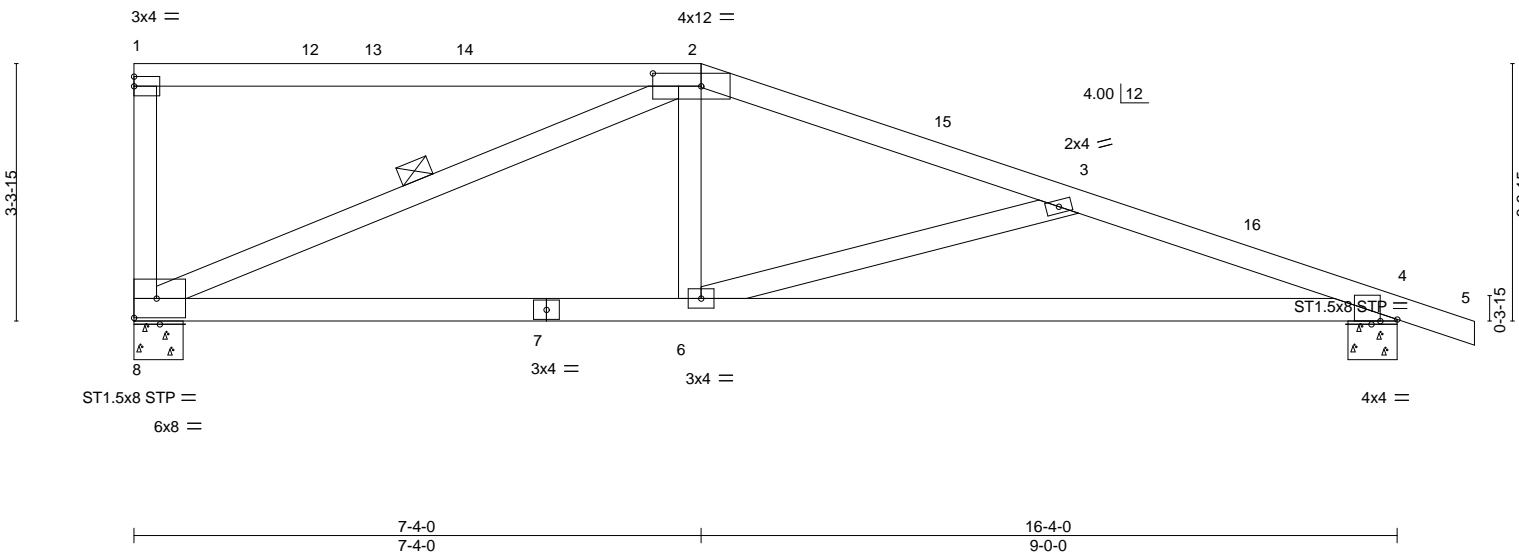
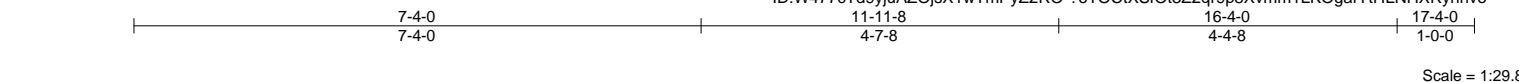


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235183
ASPEN	AH9	Roof Special	5	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:43 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-?oTOciXSfOt3Z2qr9p8Xvmm1LKOfafYtHLNHXRyhhvo



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	-0.12 6-11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.71	Vert(CT)	-0.26 6-11	>751	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.03 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 77 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-5: 2x4 SP No.1
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 2-8

REACTIONS.

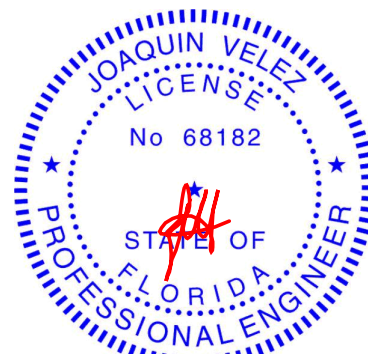
(size) 8=0-7-10, 4=0-7-10
Max Horz 8=201(LC 10)
Max Uplift 8=326(LC 10), 4=378(LC 10)
Max Grav 8=707(LC 16), 4=768(LC 16)

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

TOP CHORD 1-8=-214/282, 2-3=-1125/902, 3-4=-1609/1322
BOT CHORD 6-8=-638/1044, 4-6=-1139/1526
WEBS 2-8=-1070/956, 2-6=-49/437, 3-6=-522/523

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-0, Exterior(2R) 4-4-0 to 10-4-0, Interior(1) 10-4-0 to 14-4-0, Exterior(2E) 14-4-0 to 17-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) except (jt=lb) 8=326, 4=378.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235184
ASPEN	AH9T	Roof Special	3	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:45 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-yBb8dYiB07mol_DHDB?_BrK?8052XuAksObJyhvm

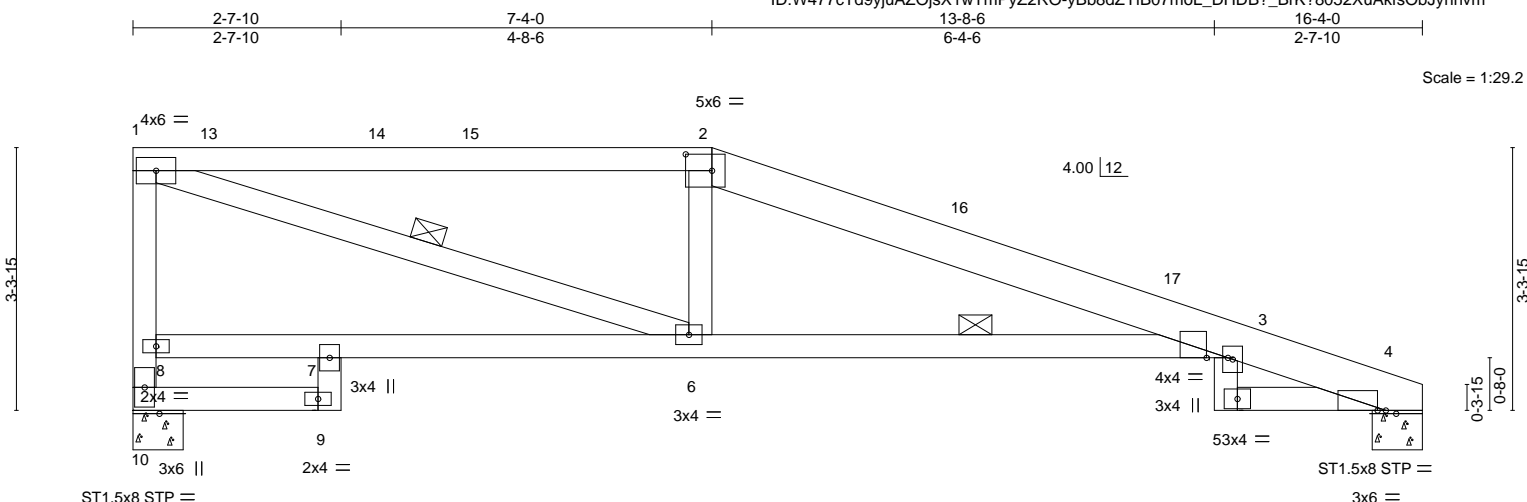


Plate Offsets (X,Y)--		[2:0-4-0,0-2-8], [3:0-3-4,Edge], [4:0-1-4,0-0-0]					
LOADING (psf)	SPACING	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.95	Vert(LL)	0.34 3-6	>554	240
TCDL 10.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.50 3-6	>384	180
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.15 4	n/a	n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 79 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
2-4: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-9,3-5: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
WEBS 5-4-0 oc bracing: 3-6
1 Row at midpt 1-6

REACTIONS.

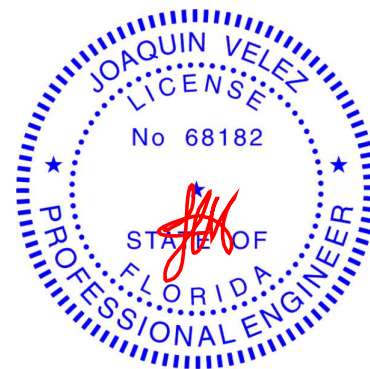
(size) 10=0-7-10, 4=0-7-10
Max Horz 10=-171(LC 10)
Max Uplift 10=-323(LC 10), 4=-287(LC 10)
Max Grav 10=695(LC 16), 4=715(LC 16)

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

TOP CHORD 8-10=-634/634, 1-8=-583/651, 1-2=-1337/1186, 2-3=-1411/1120, 3-4=-278/259
BOT CHORD 3-6=-938/1330, 3-5=-175/254
WEBS 1-6=-1197/1306, 2-6=-183/445

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-4-0, Exterior(2R) 4-4-0 to 10-4-0, Interior(1) 10-4-0 to 13-0-3, Exterior(2E) 13-0-3 to 16-0-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas 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) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=323, 4=287.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AH10	Roof Special	1	1	T25235185
Job Reference (optional)					

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-xeYHUx8NCZrbj7Ohl4a1c0RXPRQS44YAwNdbPlyhhlw

1-0-0	5-9-13	10-2-0	14-5-0	19-7-8	27-1-0	35-0-0	36-0-0
1-0-0	5-9-13	4-4-3	4-3-0	5-2-8	7-5-8	7-11-0	1-0-0

Scale = 1:64.8

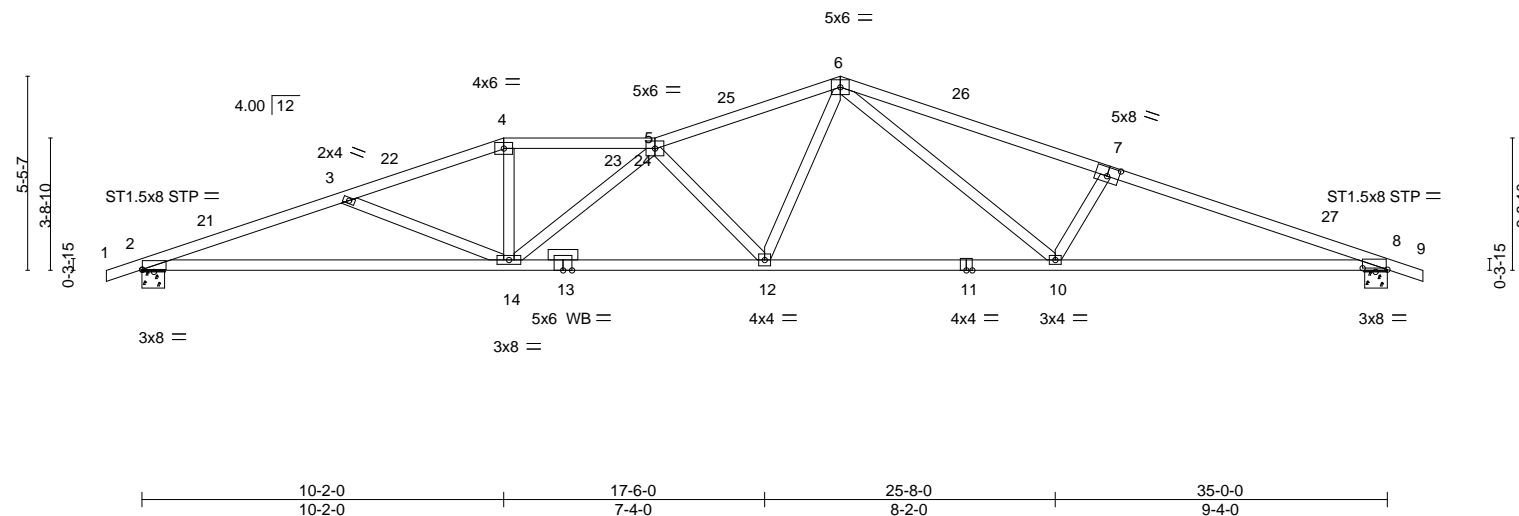


Plate Offsets (X,Y)--		[2:0-0-2,0-0-0], [7:0-4-0,0-3-0], [8:0-8-6,0-0-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.84	Vert(LL)	0.41 12	>999	240
TCDL 10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.71 14-17	>590	180
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.79	Horz(CT)	0.16 8	n/a	n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-AS				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 161 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
11-13: 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

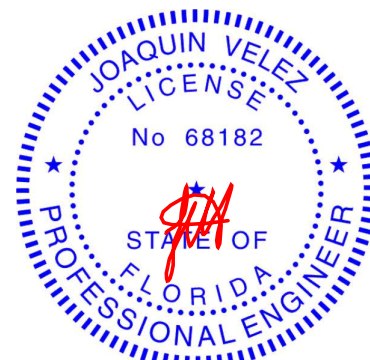
(size) 2=0-7-10, 8=0-7-10
Max Horz 2=137(LC 8)
Max Uplift 2=755(LC 10), 8=755(LC 10)
Max Grav 2=1552(LC 17), 8=1552(LC 17)

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

TOP CHORD 2-3=-3889/2859, 3-4=-3458/2481, 4-5=-3278/2432, 5-6=-3173/2357, 6-7=-3619/2575,
7-8=-3802/2663
BOT CHORD 2-14=-2601/3702, 12-14=-2531/3727, 10-12=-1617/2532, 8-10=-2379/3581
WEBS 3-14=-512/513, 4-14=-432/874, 5-14=-586/504, 5-12=-1141/967, 6-12=-700/1177,
6-10=-638/1151, 7-10=-501/562

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-2-0, Exterior(2R) 7-2-0 to 13-2-0, Interior(1) 13-2-0 to 16-7-8, Exterior(2R) 16-7-8 to 22-7-8, Interior(1) 22-7-8 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 8=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2,2021

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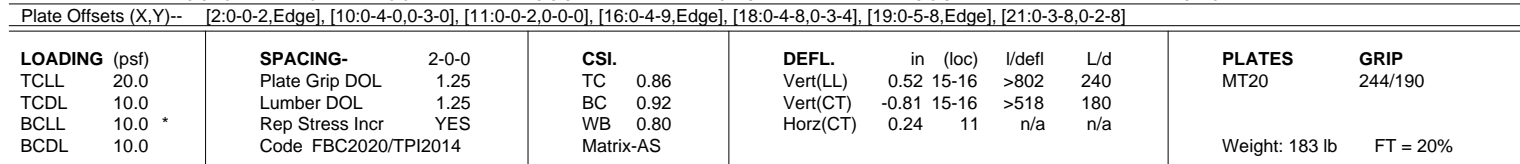
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:12 2021 Page 1
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 1-0-0 3-9-10 5-1-10 7-1-10 9-1-10 10-2-0 14-5-0 19-7-8 27-1-0 35-0-0 36-0-0
 1-0-0 3-9-10 1-4-0 2-0-0 2-0-0 1-0-6 4-3-0 5-2-8 7-5-8 7-11-0 1-0-0
 Scale = 1:66



REACTIONS. (size) 2=0-7-10, 11=0-7-10
 Max Horz 2=159(LC 9)
 Max Uplift 2=-755(LC 10), 11=-755(LC 10)
 Max Grav 2=1579(LC 15), 11=1574(LC 16)

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


TOP CHORD 2-3=-4104/2908, 3-4=-6174/4362, 4-5=-6435/4552, 5-6=-4413/3274, 6-7=-4211/3175,
7-8=-3702/2824, 8-9=-2737/2117, 9-10=-3605/2634, 10-11=-3785/2716

BOT CHORD 2-21=-2672/3988, 20-21=-546/736, 18-19=-3421/4984, 16-17=-370/545,
15-16=-2587/3743, 13-15=-1653/2561, 11-13=-2428/3566

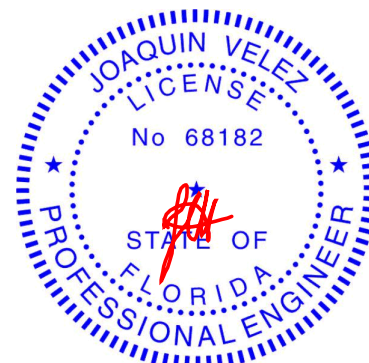
WEBS 3-21=-1944/1378, 19-21=-2438/3729, 3-19=-1471/2172, 5-19=-961/1590, 5-18=-946/713,
16-18=-2215/3258, 7-18=-720/1156, 8-16=-334/375, 8-15=-1469/1118, 9-15=-568/1002,
9-13=-660/1141, 10-13=-503/565

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCdL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-6-0, Interior(1) 2-6-0 to 6-8-0, Exterior(2R) 6-8-0 to 13-8-0, Interior(1) 13-8-0 to 16-1-8, Exterior(2R) 16-1-8 to 23-1-8, Interior(1) 23-1-8 to 32-6-0, Exterior(2E) 32-6-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 11=755.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 2,2021

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235187
ASPEN	AH11	Hip	5	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

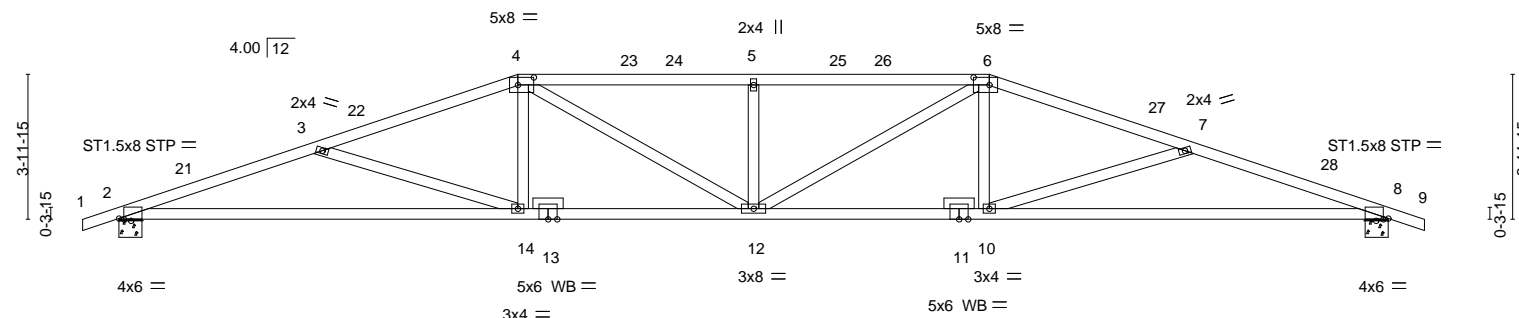
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:14 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-MDDQ6yAFVUDAAa6GzD7kEf34xeQgHWLccLsF0cyhhwF

Job Reference (optional)

1-0-0 5-7-5 11-0-0 17-6-0 24-0-0 29-4-11 35-0-0 36-0-0
1-0-0 5-7-5 5-4-11 6-6-0 6-6-0 5-4-11 5-7-5 1-0-0

Scale: 3/16"=1'



	11-0-0	17-6-0	24-0-0	35-0-0
	11-0-0	6-6-0	6-6-0	11-0-0

Plate Offsets (X,Y)-- [2:0-1-10,Edge], [4:0-5-4,0-2-8], [6:0-5-4,0-2-8], [8:0-1-10,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	0.44 12	>951	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.82 10-20	>513	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.44	Horz(CT)	0.17 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
11-13: 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

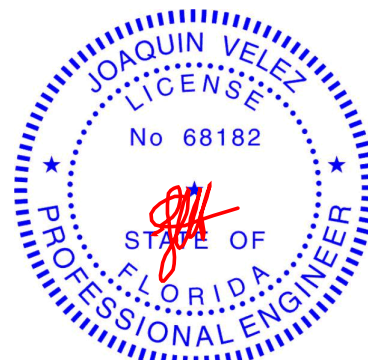
(size) 2=0-7-10, 8=0-7-10
Max Horz 2=101(LC 9)
Max Uplift 2=-755(LC 10), 8=-755(LC 10)
Max Grav 2=1559(LC 15), 8=1559(LC 16)

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

TOP CHORD 2-3=-3906/2995, 3-4=-3375/2508, 4-5=-3617/2845, 5-6=-3617/2845, 6-7=-3375/2508,
7-8=-3906/2995
BOT CHORD 2-14=-2715/3761, 12-14=-2128/3195, 10-12=-2128/3175, 8-10=-2715/3704
WEBS 3-14=-616/620, 4-14=-96/529, 4-12=-441/659, 5-12=-430/482, 6-12=-441/659,
6-10=-96/529, 7-10=-616/620

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-9-1, Exterior(2R) 6-9-1 to 15-2-15, Interior(1) 15-2-15 to 19-9-1, Exterior(2R) 19-9-1 to 28-2-15, Interior(1) 28-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 8=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
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September 2,2021

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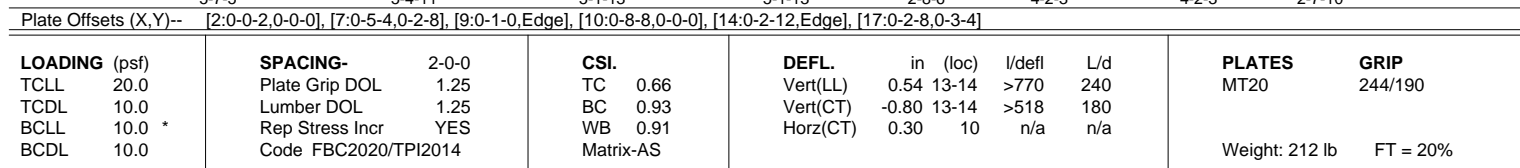
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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 11-0-0 5-7-5 11-0-0 16-1-13 21-3-10 24-0-0 28-2-3 32-4-6 35-0-0
 1-0-0 5-7-5 5-4-11 5-1-13 5-1-13 2-8-6 4-2-3 4-2-3 2-7-10
 Scale: 3/16"=1'



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 7-10: 2x6 SP M 26	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2 *Except* 9-14: 2x4 SP M 31, 9-11: 2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied. Except: 3-11-0 oc bracing: 9-12 4-1-0 oc bracing: 12-13
WEBS	2x4 SP No.3 *Except* 14-16: 2x4 SP No.2	JOINTS	1 Brace at Jt(s): 12
OTHERS	2x6 SP M 26		
LBR SCAB	7-10 2x6 SP M 26 one side		


REACTIONS. (size) 10=0-7-10, 2=0-7-10
 Max Horz 2=102(LC 9)
 Max Uplift 10=-666(LC 10), 2=-750(LC 10)
 Max Grav 10=1507(LC 16), 2=1547(LC 15)

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

TOP CHORD 2-3=-3983/2905, 3-4=-3275/2496, 4-5=-3097/2454, 5-6=-3975/3095, 6-7=-4022/3125,
7-8=-3892/2951, 8-9=-5185/3811, 9-10=-534/424

BOT CHORD 2-18=-2674/3808, 17-18=-2674/3808, 16-17=-2469/3522, 15-16=-409/649, 6-14=-232/282,
13-14=-2574/3685, 12-13=-3611/5029, 9-12=-3611/5029, 9-11=-180/278

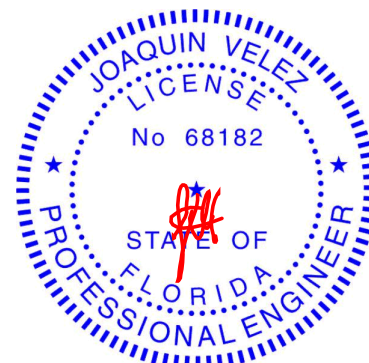
WEBS 4-17=-371/759, 5-17=-634/383, 5-16=-285/349, 14-16=-2078/2899, 5-14=-389/561,
7-14=-378/569, 7-13=-417/734, 8-13=-1497/1123, 3-17=-770/558

The seal of the Aquin Valley Fire District is a circular emblem. It features a blue outer ring with the text "AQUIN VALLEY" at the top and "FIRE DISTRICT" at the bottom, separated by small dots. The center of the seal is white and contains a stylized blue graphic of a mountain range with three peaks. Above the mountains, there are three small blue stars. The entire seal is positioned in the bottom right corner of the document.

NOTES-

- 1) Attached 11-8-6 scab 7 to 10, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 7-1-3 from end at joint 7, nail 2 row(s) at 4" o.c. for 4-1-15.
- 2) Unbalanced roof live loads have been considered for this design.
- 3) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCdL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 6-9-1, Exterior(2R) 6-9-1 to 15-2-15, Interior(1) 15-2-15 to 19-9-1, Exterior(2R) 19-9-1 to 28-2-3, Interior(1) 28-2-3 to 31-8-3, Exterior(2E) 31-8-3 to 34-8-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- 7) * 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) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=666, 2=750.

Continued on page 2



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2, 2021



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6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235188
ASPEN	AH11T	Hip	3	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:15 2021 Page 2
ID:W477cTd9yjuAZOjsX1wTmPyZZRO-qPnoKIBtGoL1CkhSXweznsG52na0rjmr_boY3yhhwE

NOTES-

- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235189
ASPEN	AH12	Roof Special	1	1		

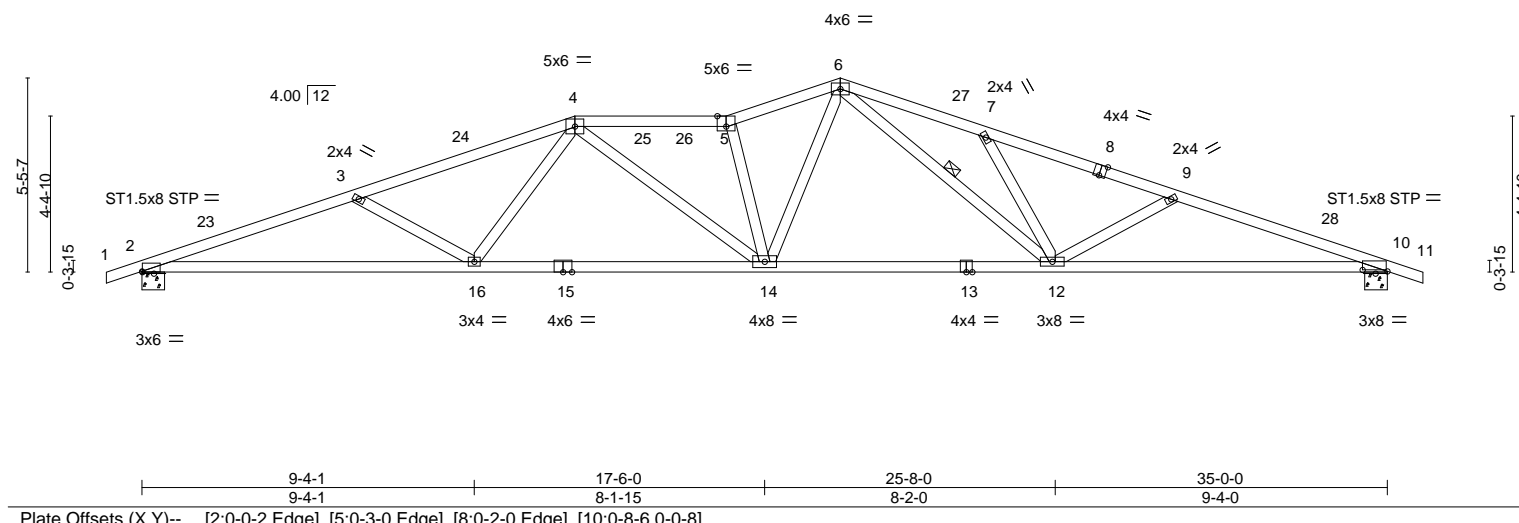
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:17 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-movZl_D8nPblR2rreLgRsHhcZrU3Usw2lI4vdxhwwC

1-0-0 6-1-1 12-2-0 16-5-0 19-7-8 23-8-9 28-11-1 35-0-0 36-0-0
1-0-0 6-1-1 6-0-15 4-3-0 3-2-8 4-1-1 5-2-8 6-0-15 1-0-0

Scale = 1:64.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	0.40 12-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.87	Vert(CT)	-0.66 12-14	>634	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	0.16 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 169 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
13-15: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-12

REACTIONS.

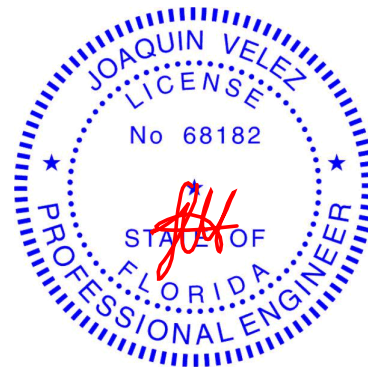
(size) 2=0-7-10, 10=0-7-10
Max Horz 2=137(LC 8)
Max Uplift 2=755(LC 10), 10=755(LC 10)
Max Grav 2=1552(LC 17), 10=1552(LC 17)

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

TOP CHORD 2-3=-3918/2856, 3-4=-3544/2503, 4-5=-3297/2529, 5-6=-3160/2425, 6-7=-3673/2834,
7-9=-3545/2468, 9-10=-3909/2782
BOT CHORD 2-16=-2602/3728, 14-16=-1982/2930, 12-14=-1616/2526, 10-12=-2510/3696
WEBS 3-16=-508/561, 4-16=-239/690, 4-14=-266/512, 5-14=-1176/1029, 6-14=-816/1234,
6-12=-916/1288, 7-12=-373/492, 9-12=-482/494

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 9-2-0, Exterior(2R) 9-2-0 to 15-2-0, Interior(1) 15-2-0 to 16-5-0, Exterior(2R) 16-5-0 to 22-7-8, Interior(1) 22-7-8 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 10=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235190
ASPEN	AH12T	Roof Special	1	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:18 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-E_TxyKDmYjjc3CQ1C3CgOVEllFpfDBJCXyqT9OyhwwB

1-0-0	3-9-10	5-1-10	7-1-10	9-1-10	12-2-0	16-5-0	19-7-8	23-8-9	28-11-1	35-0-0	36-0-0
1-0-0	3-9-10	1-4-0	2-0-0	2-0-0	3-0-6	4-3-0	3-2-8	4-1-1	5-2-8	6-0-15	1-0-0

Scale = 1:66.0

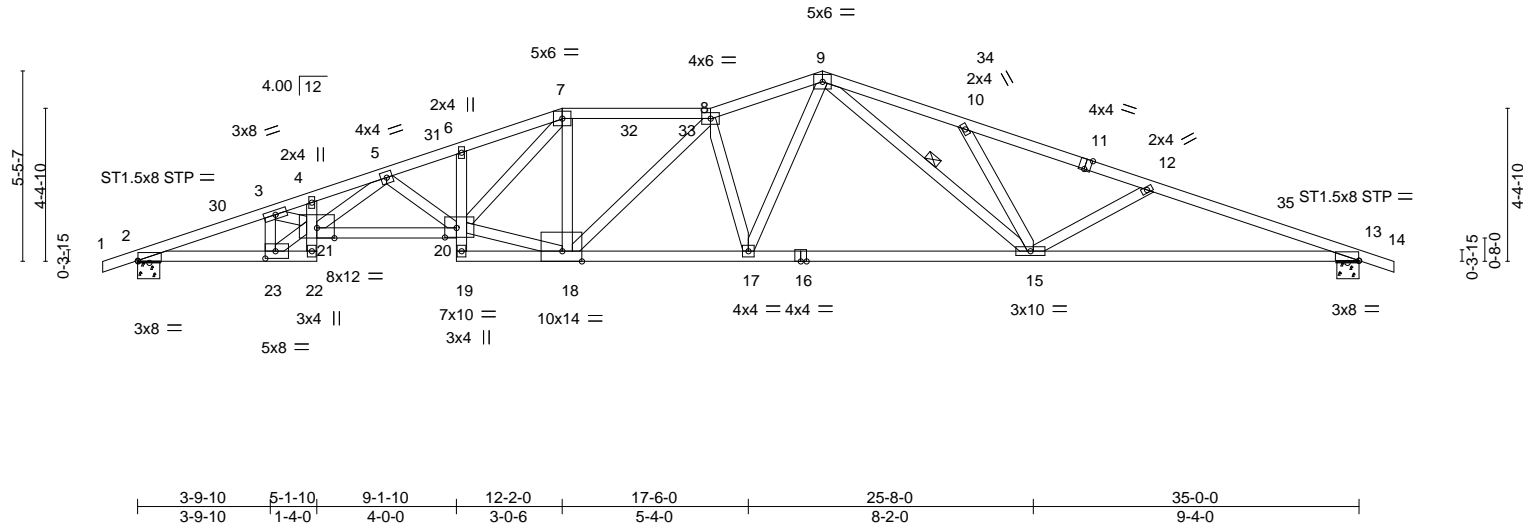


Plate Offsets (X,Y)--		[2:0-0-2,Edge], [11:0-2-0,Edge], [13:0-0-2,0-0-0], [18:0-6-12,Edge], [20:0-4-0,0-3-4], [23:0-3-8,0-2-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP		
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	0.50 17-18	>843	240	MT20	244/190		
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.79 15-17	>531	180				
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.23 13	n/a	n/a				
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS								
								Weight: 189 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

20-21,13-16: 2x4 SP No.1, 6-19: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

21-23: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.

BOT CHORD Rigid ceiling directly applied.

WEBS 1 Row at midpt 9-15

REACTIONS. (size) 2=0-7-10, 13=0-7-10

Max Horz 2=159(LC 8)

Max Uplift 2=755(LC 10), 13=755(LC 10)

Max Grav 2=1580(LC 15), 13=1577(LC 16)

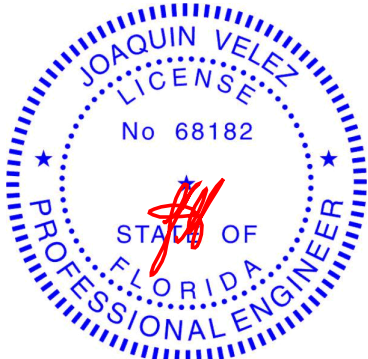
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-4109/2877, 3-4=-6180/4313, 4-5=-6442/4503, 5-6=-4425/3261, 6-7=-4307/3257, 7-8=-2960/2340, 8-9=-3167/2484, 9-10=-3677/2883, 10-12=-3547/2508, 12-13=-3914/2823

BOT CHORD 2-23=-2641/3993, 22-23=-542/741, 20-21=-3373/4991, 18-19=-309/413, 17-18=-2197/3220, 15-17=-1648/2520, 13-15=-2548/3697

WEBS 3-23=-1944/1360, 21-23=-2407/3729, 3-21=-1452/2174, 5-21=-958/1589, 5-20=-924/653, 18-20=-1742/2656, 7-20=-1229/1805, 7-18=-277/241, 8-18=-426/277, 8-17=-956/880, 9-17=-851/1262, 9-15=-931/1355, 10-15=-374/505, 12-15=-498/495

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-6-0, Interior(1) 2-6-0 to 8-8-0, Exterior(2R) 8-8-0 to 15-8-0, Interior(1) 15-8-0 to 16-5-0, Exterior(2R) 16-5-0 to 23-1-8, Interior(1) 23-1-8 to 32-6-0, Exterior(2E) 32-6-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 13=755.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021



Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235191
ASPEN	AH13	Hip	4	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

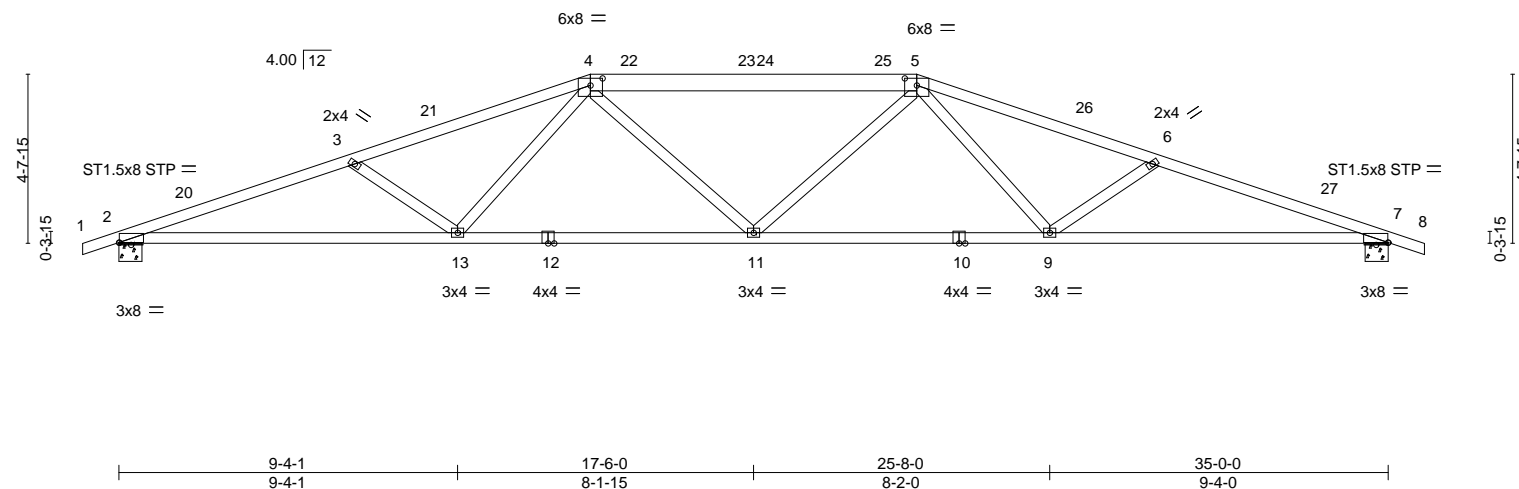
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:19 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-iA1JAgEOJ0rThM?DmmjvixinxVfAhypXLmcZ0hgyhhwA

Job Reference (optional)

1-0-0 6-6-0 13-0-0 22-0-0 28-6-0 35-0-0 36-0-0
1-0-0 6-6-0 6-6-0 9-0-0 6-6-0 6-6-0 1-0-0

Scale: 3/16"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.76	Vert(LL)	0.36 11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.60 9-11	>697	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.16 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 162 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x6 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
10-12: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

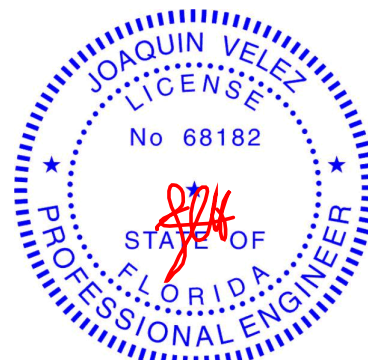
(size) 2=0-7-10, 7=0-7-10
Max Horz 2=117(LC 9)
Max Uplift 2=-755(LC 10), 7=-755(LC 10)
Max Grav 2=1552(LC 17), 7=1552(LC 17)

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

TOP CHORD 2-3=-3885/2936, 3-4=-3553/2631, 4-5=-2983/2350, 5-6=-3553/2631, 6-7=-3885/2936
BOT CHORD 2-13=-2654/3714, 11-13=-2008/2839, 9-11=-2008/2839, 7-9=-2654/3670
WEBS 3-13=-479/550, 4-13=-308/772, 4-11=-39/310, 5-11=-39/311, 5-9=-309/773,
6-9=-479/550

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 8-9-1, Exterior(2R) 8-9-1 to 17-2-15, Interior(1) 17-2-15 to 17-9-1, Exterior(2R) 17-9-1 to 26-2-15, Interior(1) 26-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 7=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235192
ASPEN	AH13T	Hip	4	1		

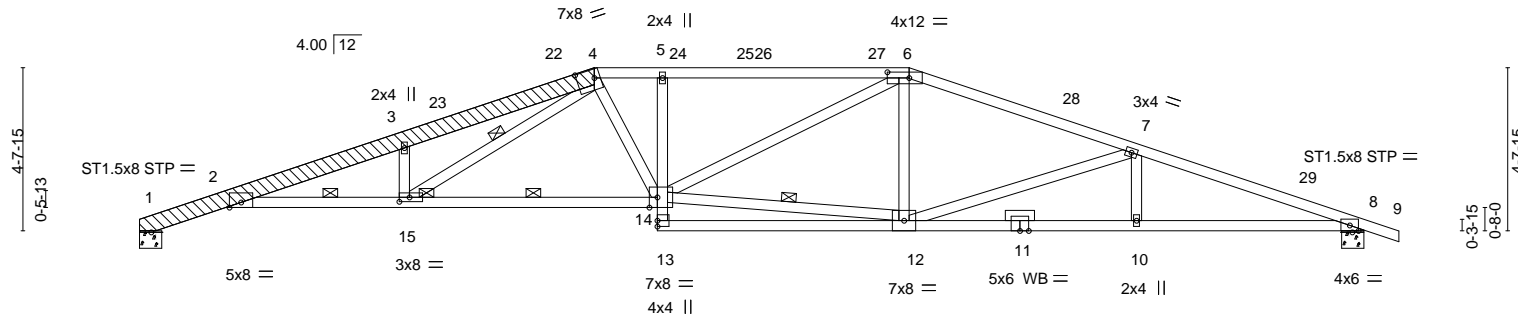
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:20 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-BNahN0F04KzJIVaQJTE8UwJ5w3Tph61V_GJZEGyhwh9

2-7-10	7-6-14	13-0-0	14-9-10	22-0-0	28-6-0	35-0-0	36-0-0
2-7-10	4-11-4	5-5-3	1-9-10	7-2-6	6-6-0	6-6-0	1-0-0

Scale = 1:65.9



2-7-10	7-6-14	13-0-0	14-9-10	22-0-0	28-6-0	35-0-0	
2-7-10	4-11-4	5-5-3	1-9-10	7-2-6	6-6-0	6-6-0	

Plate Offsets (X,Y)-- [4:0-6-0,0-3-0], [6:0-7-8,0-2-0], [14:0-2-12,Edge], [15:0-3-8,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.79	Vert(LL)	0.51 14-15	>821	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.99	Vert(CT)	-0.83 14-15	>504	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.28 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 212 lb	FT = 20%

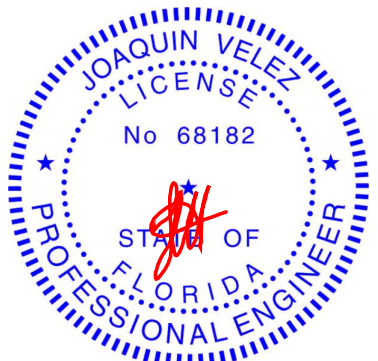
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-4: 2x6 SP M 26	TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. Except:
BOT CHORD 2x4 SP No.2 *Except* 2-14: 2x4 SP M 31, 5-13: 2x4 SP No.3	4-1-0 oc bracing: 2-15 5-2-0 oc bracing: 14-15
WEBS 2x4 SP No.3	1 Row at midpt 12-14, 4-15
OTHERS 2x6 SP M 26 *Except* 11-11: 2x4 SP No.3	JOINTS 1 Brace at Jt(s): 15
LBR SCAB 1-4 2x6 SP M 26 one side	

REACTIONS. (size) 1=0-7-10, 8=0-7-10
Max Horz 1=-119(LC 8)
Max Uplift 1=-659(LC 10), 8=-749(LC 10)
Max Grav 1=1483(LC 17), 8=1540(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-495/392, 2-3=-5029/3680, 3-4=-5208/3956, 4-5=-3463/2777, 5-6=-3422/2772,
6-7=-3061/2372, 7-8=-3920/2879
BOT CHORD 2-15=-3424/4926, 14-15=-2232/3220, 5-14=-369/457, 12-13=-277/444, 10-12=-2599/3695,
8-10=-2599/3695
WEBS 4-14=-352/600, 12-14=-1686/2412, 6-14=-492/756, 6-12=0/328, 7-12=-939/681,
4-15=-1443/2067, 3-15=-832/816

- NOTES-**
- Attached 13-9-11 scab 1 to 4, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 1-7-3 from end at joint 1, nail 2 row(s) at 3" o.c. for 2-11-1.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-13 to 3-4-1, Interior(1) 3-4-1 to 8-9-1, Exterior(2R) 8-9-1 to 17-2-15, Interior(1) 17-2-15 to 17-9-1, Exterior(2R) 17-9-1 to 26-2-15, Interior(1) 26-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=659, 8=749.

Continued on page 2



Joaquin Velez PE No.68182
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Date:

September 2,2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235192
ASPEN	AH13T	Hip	4	1	Job Reference (optional)	

- NOTES-**
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235193
ASPEN	AH14	Roof Special	1	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-fZ83aMGere6Awf8ctBIN07sFqTrvQb_eDw27mihhw8

1-0-0 7-1-0 14-2-0 18-5-0 19-7-8 27-1-0 35-0-0 36-0-0
1-0-0 7-1-0 7-1-0 4-3-0 1-2-8 7-5-8 7-11-0 1-0-0

Scale = 1:66.0

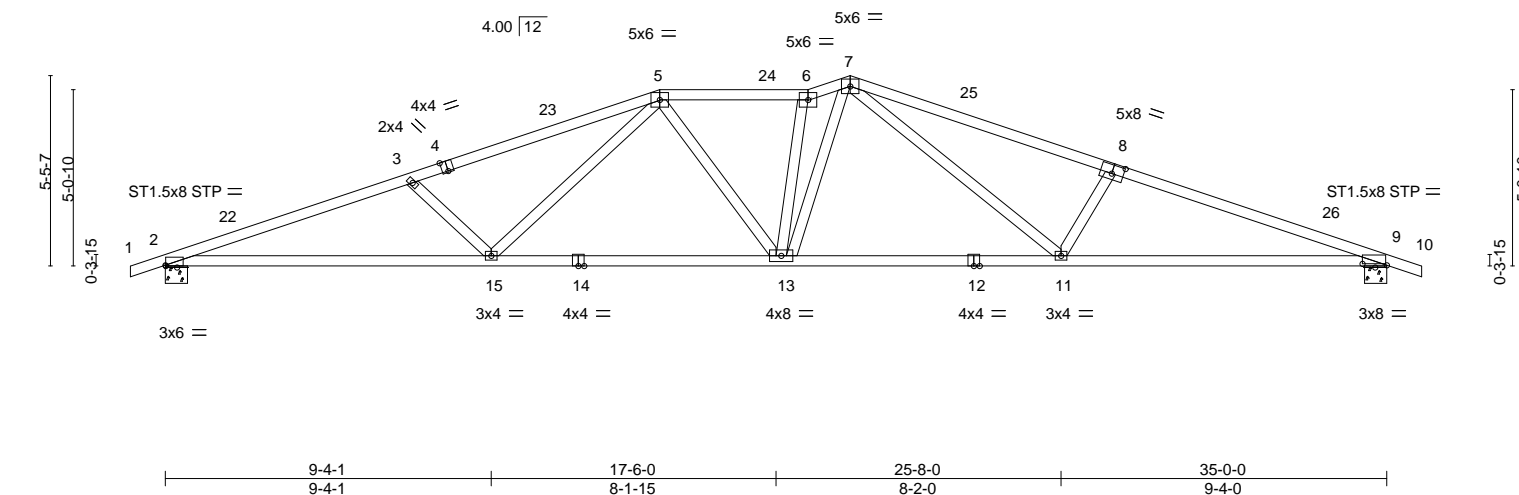


Plate Offsets (X,Y)--		[2:0-0-2,Edge], [4:0-2-0,Edge], [8:0-4-0,0-3-0], [9:0-8-6,0-0-8]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d
TCDL 10.0	Plate Grip DOL 1.25	BC 0.87	Vert(LL) 0.38 13 >999 240
BCLL 10.0 *	Lumber DOL 1.25	WB 0.80	Vert(CT) -0.65 13-15 >644 180
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.15 9 n/a n/a
	Code FBC2020/TPI2014		
			PLATES MT20
			GRIP 244/190
			Weight: 163 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
12-14: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

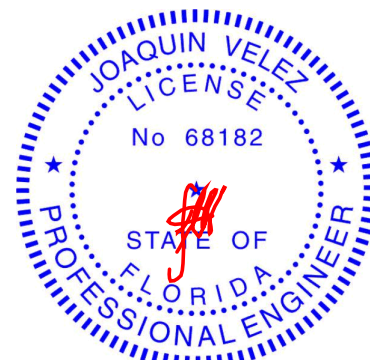
(size) 2=0-7-10, 9=0-7-10
Max Horz 2=137(LC 9)
Max Uplift 2=755(LC 10), 9=755(LC 10)
Max Grav 2=1552(LC 17), 9=1552(LC 17)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3858/2728, 3-5=-3569/2491, 5-6=-2792/2121, 6-7=-3039/2292, 7-8=-3612/2561,
8-9=-3795/2649
BOT CHORD 2-15=-2459/3662, 13-15=-1733/2673, 11-13=-1603/2545, 9-11=-2366/3575
WEBS 3-15=-503/569, 5-15=-452/950, 5-13=-31/294, 6-13=-911/679, 7-13=-641/1141,
7-11=-640/1123, 8-11=-494/559

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-2-0, Exterior(2R) 11-2-0 to 17-2-0, Interior(1) 17-2-0 to 18-5-0, Exterior(2R) 18-5-0 to 22-7-8, Interior(1) 22-7-8 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 9=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235194
ASPEN	AH14T	Roof Special	1	1	Job Reference (optional)	

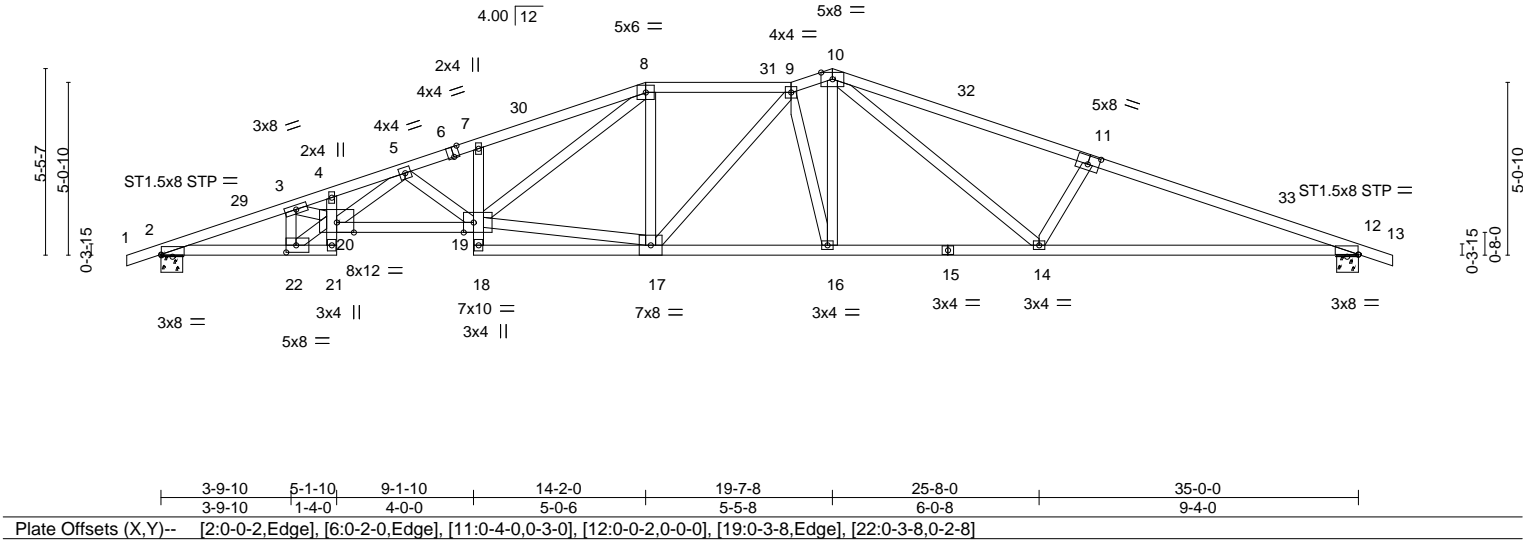
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:23 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-byGq?1HvNFMu9zl?_cnr5Yxa0GWquT?xhEXEqbyhhw6

1-0-0 3-9-10 5-1-10 7-1-10 9-1-10 14-2-0 18-5-0 19-7-8 27-1-0 35-0-0 36-0-0
1-0-0 3-9-10 1-4-0 2-0-0 2-0-0 5-0-6 4-3-0 1-2-8 7-5-8 7-11-0 1-0-0

Scale = 1:67.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.86	Vert(LL)	0.50 19	>839	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.76 19-20	>556	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.95	Horz(CT)	0.23 12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 190 lb	FT = 20%

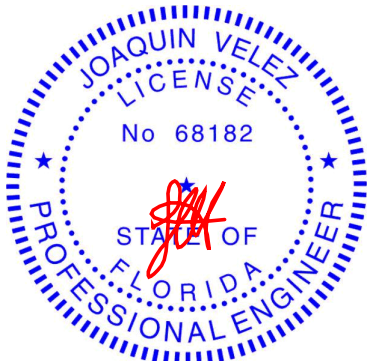
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
19-20,12-15: 2x4 SP No.1, 7-18: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
20-22: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-7-10, 12=0-7-10
Max Horz 2=159(LC 8)
Max Uplift 2=755(LC 10), 12=755(LC 10)
Max Grav 2=1582(LC 15), 12=1581(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4114/2805, 3-4=-6193/4196, 4-5=-6467/4394, 5-7=-4432/3172, 7-8=-4340/3220,
8-9=-2716/2142, 9-10=-2665/2099, 10-11=-3607/2612, 11-12=-3786/2694
BOT CHORD 2-22=-2561/3997, 21-22=-521/735, 19-20=-3243/4984, 7-19=-195/285, 17-18=-333/549,
16-17=-1788/2755, 14-16=-1632/2559, 12-14=-2407/3566
WEBS 3-22=-1950/1321, 20-22=-2339/3741, 3-20=-1405/2183, 5-20=-971/1625, 5-19=-890/592,
17-19=-1434/2210, 8-19=-1266/1876, 9-16=-863/631, 10-16=-563/1011, 10-14=-661/1140,
11-14=-496/564

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=35ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-6-0, Interior(1) 2-6-0 to 10-8-0, Exterior(2R) 10-8-0 to 17-8-0, Interior(1) 17-8-0 to 18-5-0, Exterior(2R) 18-5-0 to 23-1-8, Interior(1) 23-1-8 to 32-6-0, Exterior(2E) 32-6-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 12=755.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: September 2,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235195
ASPEN	AH15	Hip	4	1	Job Reference (optional)	

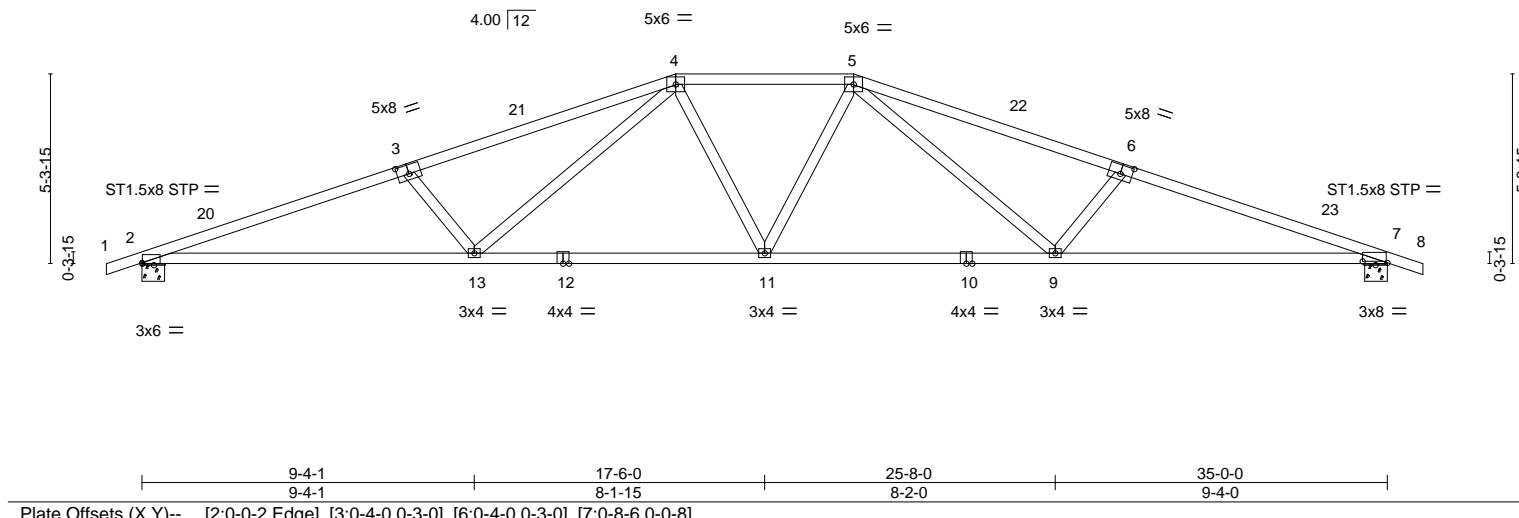
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:24 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-38qCDNIX8ZUln7tBYJJ4eIUlQgtrd_l4vuHnN1yhhw5

1-0-0 7-6-0 15-0-0 20-0-0 27-6-0 35-0-0 36-0-0
1-0-0 7-6-0 7-6-0 5-0-0 7-6-0 7-6-0 1-0-0

Scale = 1:64.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	0.36 11	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.86	Vert(CT)	-0.61 9-11	>690	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.67	Horz(CT)	0.15 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 157 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
10-12: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

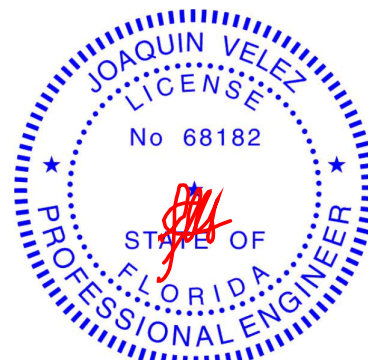
(size) 2=0-7-10, 7=0-7-10
Max Horz 2=134(LC 9)
Max Uplift 2=755(LC 10), 7=755(LC 10)
Max Grav 2=1552(LC 17), 7=1552(LC 17)

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

TOP CHORD 2-3=-3825/2787, 3-4=-3591/2623, 4-5=-2646/2121, 5-6=-3592/2623, 6-7=-3826/2786
BOT CHORD 2-13=-2502/3631, 11-13=-1711/2575, 9-11=-1711/2575, 7-9=-2502/3607
WEBS 3-13=-502/587, 4-13=-589/1067, 4-11=-76/274, 5-11=-76/274, 5-9=-589/1068,
6-9=-502/587

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 10-9-1, Exterior(2R) 10-9-1 to 24-2-15, Interior(1) 24-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 7=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235196
ASPEN	AH15T	Hip	4	1		

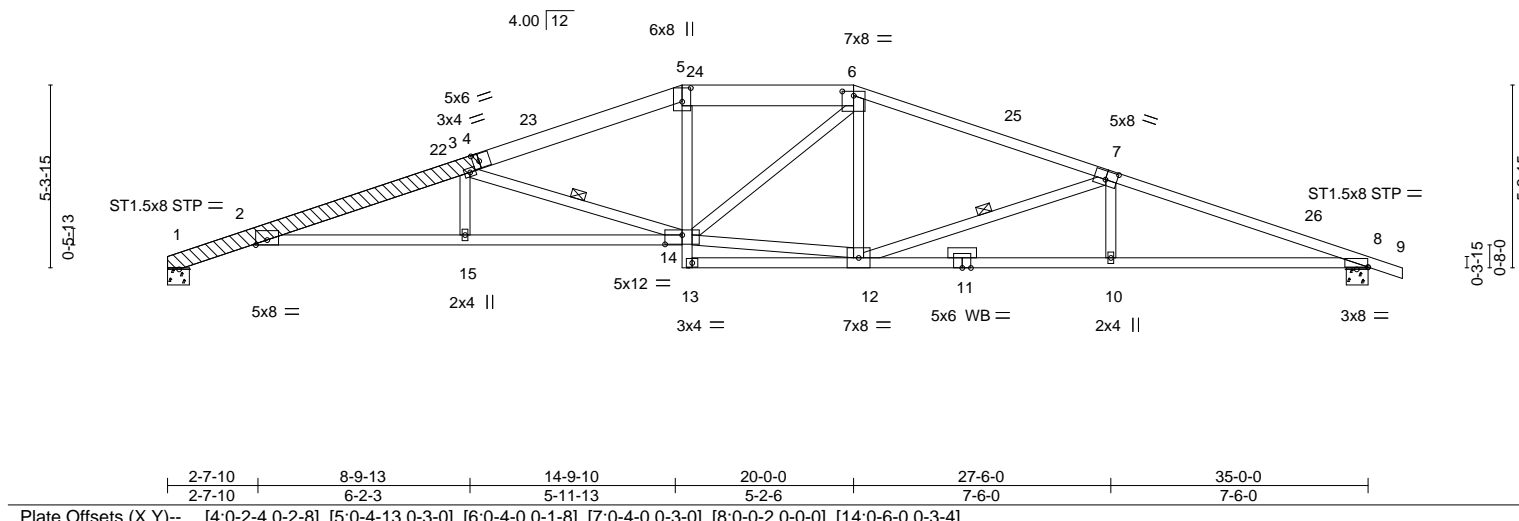
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:25 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-XKOaQjJ9vsccPHSN61qJBz0x04BNMOF8Y0KvUyhhw4

2-7-10	8-9-13	15-0-0	20-0-0	27-6-0	35-0-0	36-0-0
2-7-10	6-2-3	6-2-3	5-0-0	7-6-0	7-6-0	1-0-0

Scale = 1:67.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.83	Vert(LL)	0.48 15-18	>864	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.78 14-15	>535	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.88	Horz(CT)	0.31 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 206 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-5: 2x6 SP No.2, 5-6: 2x8 SP 2400F 2.0E, 1-4: 2x6 SP M 26
BOT CHORD 2x4 SP No.1 *Except*
11-13: 2x4 SP No.2, 5-13: 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
LBR SCAB 1-4 2x6 SP M 26 one side

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 3-14, 7-12

REACTIONS.

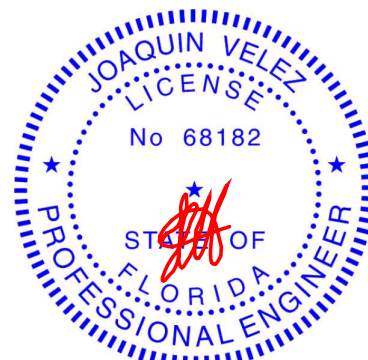
(size) 8=0-7-10, 1=0-7-10
Max Horz 1=135(LC 8)
Max Uplift 8=749(LC 10), 1=659(LC 10)
Max Grav 8=1539(LC 17), 1=1483(LC 17)

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

TOP CHORD 1-2=500/381, 2-3=4698/3366, 3-5=3207/2433, 5-6=2984/2382, 6-7=2823/2154,
7-8=3842/2731
BOT CHORD 2-15=3103/4567, 14-15=3103/4567, 12-13=223/272, 10-12=2449/3604,
8-10=2447/3616, 5-14=292/660
WEBS 3-15=0/301, 3-14=1699/1194, 12-14=1497/2343, 6-14=337/606, 6-12=12/310,
7-12=1105/789, 7-10=0/307

NOTES-

- Attached 9-7-3 scab 1 to 4, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 5-0-10 from end at joint 4, nail 2 row(s) at 3" o.c. for 2-11-1.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-13 to 3-4-1, Interior(1) 3-4-1 to 10-9-1, Exterior(2R) 10-9-1 to 24-2-15, Interior(1) 24-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=749, 1=659.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235197
ASPEN	AH16	Hip	2	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-TjVLrPKPRUsKeacmDRsnGO6KottmqGqXcsVRzMyhhw2

1-0-0	6-1-1	11-2-3	16-2-0	18-10-0	23-9-14	28-11-0	35-0-0	36-0-0
1-0-0	6-1-1	5-1-2	4-11-13	2-8-0	4-11-14	5-1-2	6-1-0	1-0-0

Scale = 1:64.8

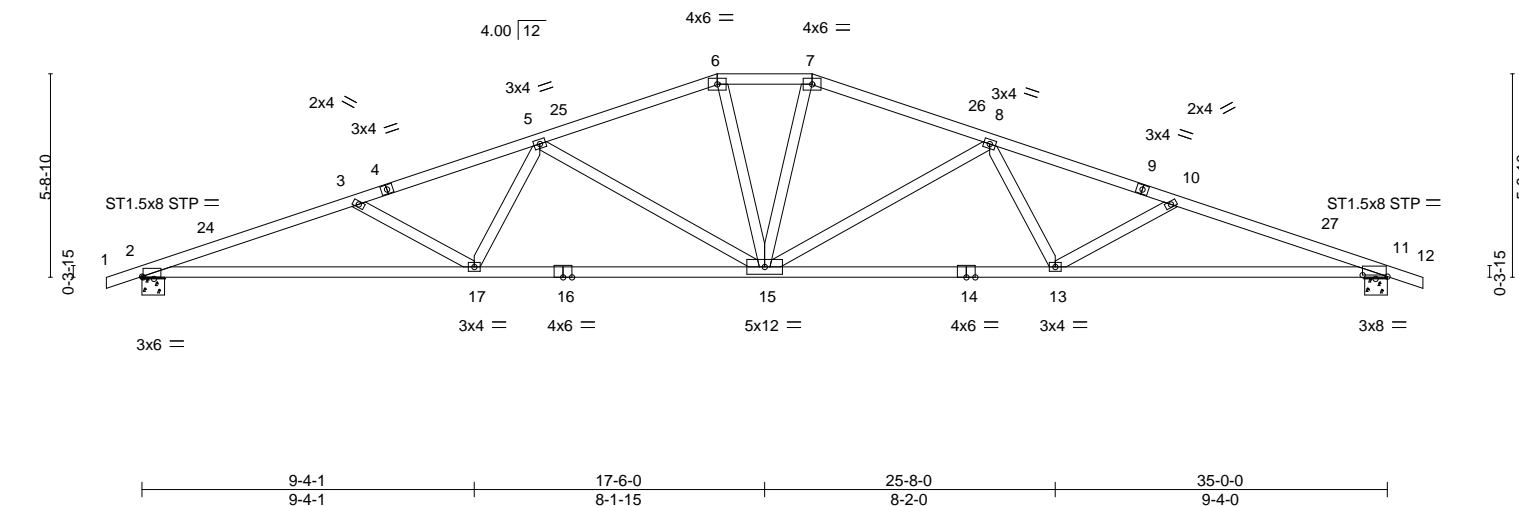


Plate Offsets (X,Y)-- [2:0-0-6,Edge], [11:0-8-6,0-0-8]		9-4-1 9-4-1		17-6-0 8-1-15		25-8-0 8-2-0		35-0-0 9-4-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62	Vert(LL)	0.36 15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.61 13-15	>686	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.16 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 170 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
14-16: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

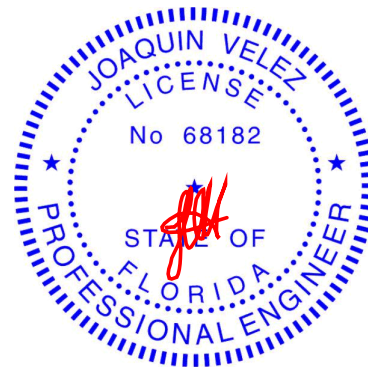
(size) 2=0-7-10, 11=0-7-10
Max Horz 2=144(LC 8)
Max Uplift 2=755(LC 10), 11=755(LC 10)
Max Grav 2=1552(LC 17), 11=1552(LC 17)

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

TOP CHORD 2-3=-3900/2763, 3-5=-3559/2478, 5-6=-2490/1924, 6-7=-2467/1965, 7-8=-2490/1924,
8-10=-3559/2479, 10-11=-3900/2763
BOT CHORD 2-17=-2490/3702, 15-17=-2028/3077, 13-15=-2028/3078, 11-13=-2490/3685
WEBS 3-17=-447/453, 5-17=-162/600, 5-15=-925/695, 6-15=-326/606, 7-15=-326/606,
8-13=-162/600, 10-13=-447/452, 8-15=-926/695

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 11-11-1, Exterior(2R) 11-11-1 to 23-0-15, Interior(1) 23-0-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 11=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AH17	Hip	4	1	T25235198

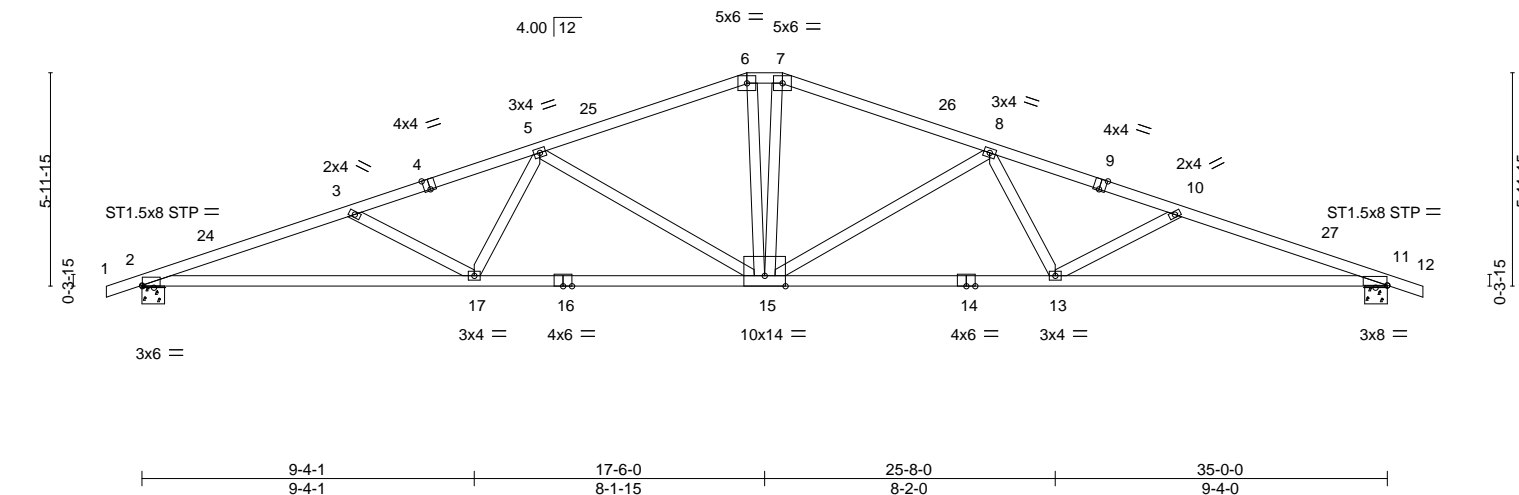
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:28 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-yv3j3IL1Cn_BGkByn9N0obeU4HDyZj6gqWF_Woyhhw1

1-0-0 5-11-12 11-2-3 17-0-0 18-0-0 23-9-14 29-0-5 35-0-0 36-0-0
1-0-0 5-11-12 5-2-7 5-9-13 1-0-0 5-9-14 5-2-7 5-11-11 1-0-0

Scale = 1:64.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.36 15	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.91	Vert(CT)	-0.61 13-15	>686	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.96	Horz(CT)	0.17 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 170 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
14-16: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

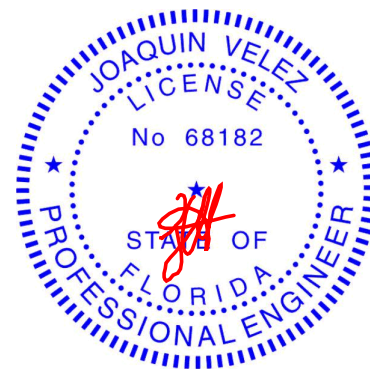
(size) 2=0-7-10, 11=0-7-10
Max Horz 2=151(LC 9)
Max Uplift 2=755(LC 10), 11=755(LC 10)
Max Grav 2=1552(LC 17), 11=1552(LC 17)

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

TOP CHORD 2-3=-3906/2721, 3-5=-3560/2432, 5-6=-2480/1871, 6-7=-2360/1878, 7-8=-2480/1871,
8-10=-3561/2433, 10-11=-3907/2722
BOT CHORD 2-17=-2452/3699, 15-17=-1994/3085, 13-15=-1994/3085, 11-13=-2452/3692
WEBS 3-17=-445/448, 5-17=-149/589, 5-15=-954/722, 6-15=-333/630, 7-15=-332/630,
8-13=-149/589, 10-13=-445/448, 8-15=-955/723

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 12-9-1, Exterior(2R) 12-9-1 to 22-2-15, Interior(1) 22-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=755, 11=755.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235199
ASPEN	AH17T	Hip	4	1		

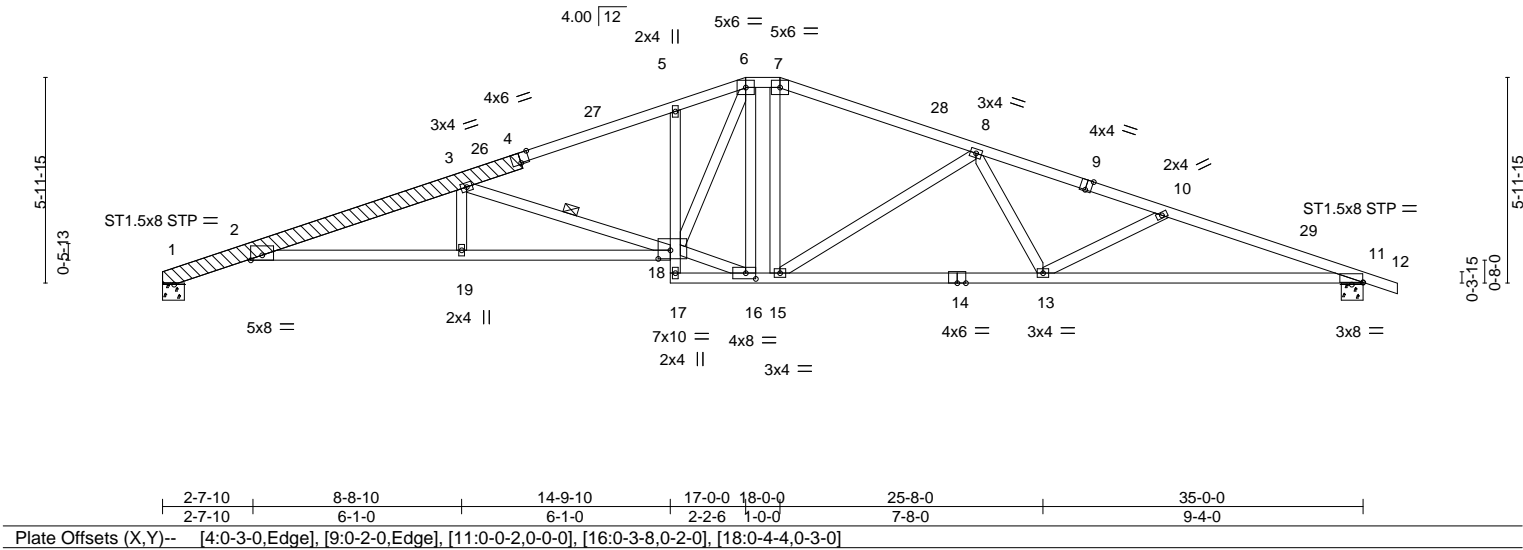
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:31 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-MUIrhMnwUiMm7CvXSHxjQEG?MVEom586WUTf67yhhw_

2-7-10	8-8-10	14-9-10	17-0-0	18-0-0	23-8-9	29-1-9	35-0-0	36-0-0
2-7-10	6-1-0	6-1-0	2-2-6	1-0-0	5-8-9	5-5-0	5-10-7	1-0-0

Scale = 1:67.2



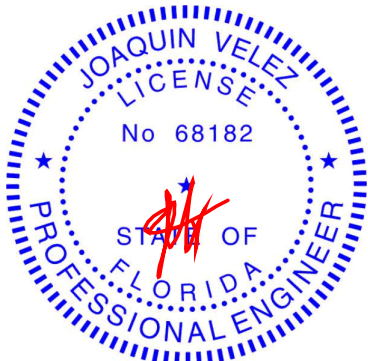
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.50 18-19	l/defl	>829	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.80 18-19	L/d	>518		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.31 11		n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 208 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 1-4: 2x6 SP M 26	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1 *Except* 5-17: 2x4 SP No.3, 14-17: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 3-18
OTHERS	2x6 SP M 26		
LBR SCAB	1-4 2x6 SP M 26 one side		

REACTIONS.	
(size)	1=0-7-10, 11=0-7-10
Max Horz	1=-152(LC 8)
Max Uplift	1=-659(LC 10), 11=-749(LC 10)
Max Grav	1=1483(LC 17), 11=1539(LC 17)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-510/371, 2-3=-4653/3206, 3-5=-3161/2291, 5-6=-3056/2369, 6-7=-2305/1851, 7-8=-2462/1870, 8-10=-3522/2405, 10-11=-3880/2712
BOT CHORD	2-19=-2945/4505, 18-19=-2945/4505, 5-18=-201/312, 15-16=-1375/2300, 13-15=-1963/3032, 11-13=-2444/3668
WEBS	3-19=0/297, 3-18=-1724/1193, 16-18=-1247/2265, 6-18=-1087/1572, 7-15=-202/573, 8-13=-152/602, 10-13=-455/464, 8-15=-940/707, 6-16=-598/222

- NOTES-**
- Attached 11-0-4 scab 1 to 4, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except : starting at 1-7-3 from end at joint 1, nail 2 row(s) at 3" o.c. for 2-11-1.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-13 to 3-4-1, Interior(1) 3-4-1 to 12-9-1, Exterior(2R) 12-9-1 to 22-2-15, Interior(1) 22-2-15 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=659, 11=749.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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MiTek USA, Inc. FL Cert 6634
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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	AT	Roof Special	16	1	T25235200

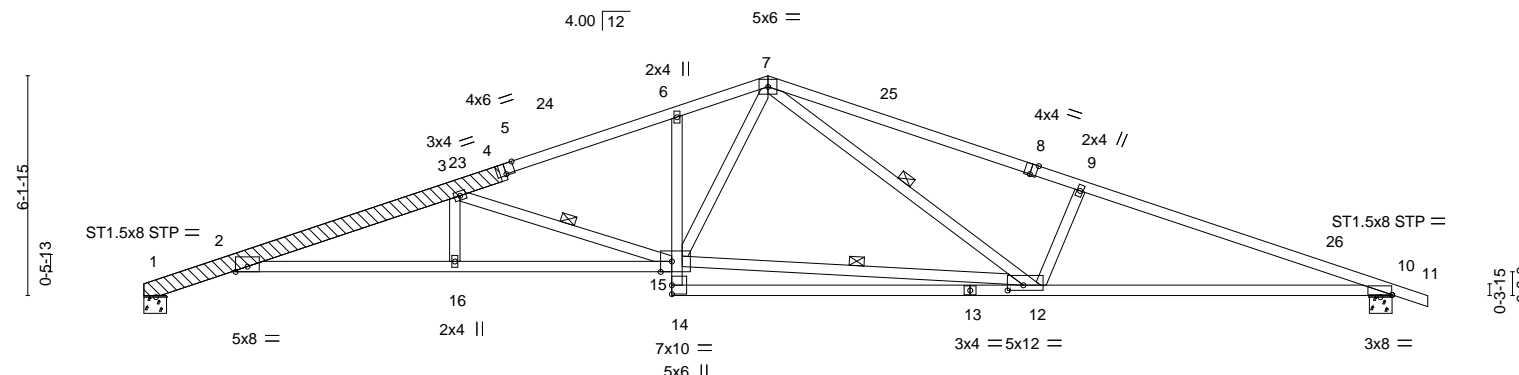
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:46 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-QN9WqvZKyJFdQVZPrxiEXOOUOYLEnx_KzJcx7myhhvl

2-7-10	8-8-10	14-9-10	17-6-0	26-3-0	35-0-0	36-0-0
2-7-10	6-1-0	6-1-0	2-8-6	8-9-0	8-9-0	1-0-0

Scale: 3/16"=1'



2-7-10	8-8-10	14-9-10	24-10-13	35-0-0
2-7-10	6-1-0	6-1-0	10-1-3	10-1-3

Plate Offsets (X,Y)-- [5:0-3-0,Edge], [8:0-2-0,Edge], [10:0-0-2,0-0-0], [12:0-5-5,0-1-12], [15:0-3-12,Edge]

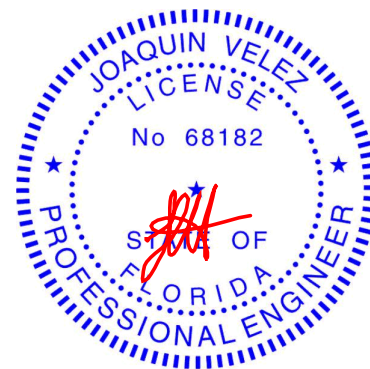
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.98	Vert(LL)	0.49 15-16	>845	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.97	Vert(CT)	-0.92 12-14	>452	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.68	Horz(CT)	0.29 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 198 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except*	TOP CHORD Structural wood sheathing directly applied.
1-5: 2x6 SP M 26, 8-11: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
BOT CHORD 2x4 SP No.1 *Except*	WEBS 1 Row at midpt 3-15, 12-15, 7-12
6-14: 2x4 SP No.3, 13-14: 2x4 SP No.2	
WEBS 2x4 SP No.3	
OTHERS 2x6 SP M 26	
LBR SCAB 1-4 2x6 SP M 26 one side	

REACTIONS. (size) 1=0-7-10, 10=0-7-10
Max Horz 1=156(LC 8)
Max Uplift 1=659(LC 10), 10=749(LC 10)
Max Grav 1=1483(LC 17), 10=1539(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-512/361, 2-3=-4657/3078, 3-6=-3146/2173, 6-7=-3019/2194, 7-9=-3544/2430, 9-10=-3707/2473
BOT CHORD 2-16=-2821/4509, 15-16=-2821/4509, 12-14=-209/568, 10-12=-2191/3488
WEBS 3-16=0/302, 3-15=-1731/1178, 12-15=-1193/1815, 7-15=-611/1168, 7-12=-670/1230, 9-12=-561/642

- NOTES-**
- 1) Attached 10-6-10 scab 1 to 4, front face(s) 2x6 SP M 26 with 2 row(s) of 10d (0.131"x3") nails spaced 9" o.c. except : starting at 1-7-3 from end at joint 1, nail 2 row(s) at 3" o.c. for 2-11-1.
 - 2) Unbalanced roof live loads have been considered for this design.
 - 3) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-3-13 to 3-4-1, Interior(1) 3-4-1 to 14-6-0, Exterior(2R) 14-6-0 to 20-6-0, Interior(1) 20-6-0 to 33-0-0, Exterior(2E) 33-0-0 to 36-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=659, 10=749.
 - 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

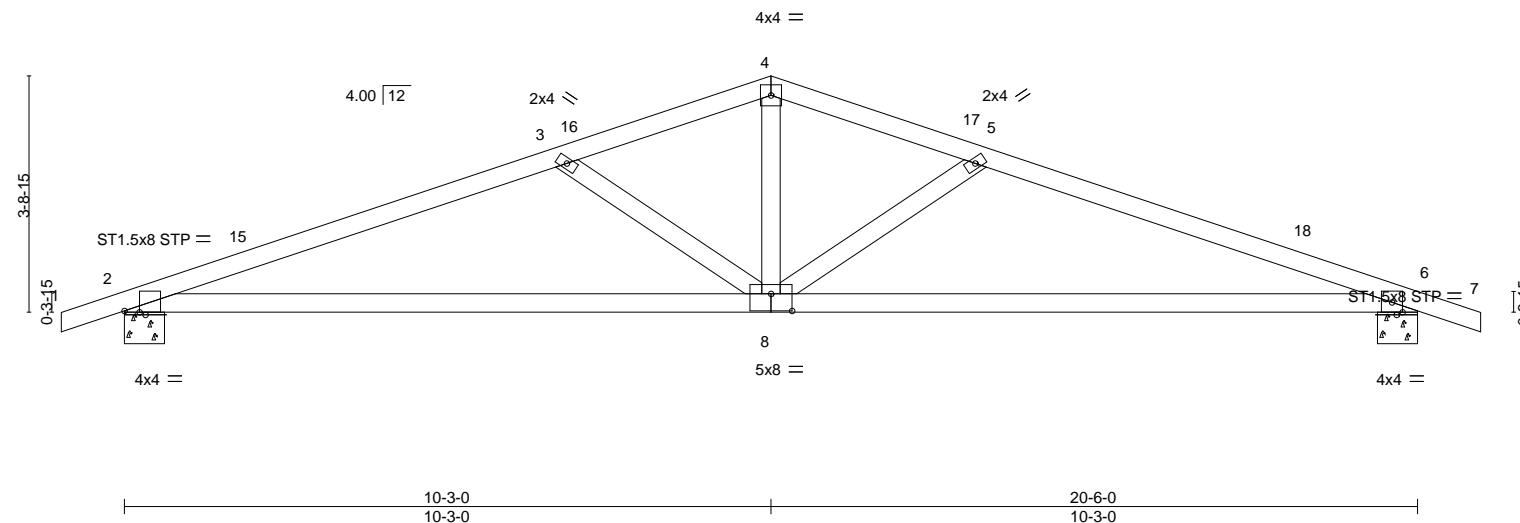
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Tampa, FL 36610

Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:47 2021 Page 1
 ID:W477cTd9yjuAZOjSx1wTmPyZ2R0-uZju2FayjdNU2f8cOeDT4cxlvxkTWY7TCzLvgCyhhvk
 -1-0-0 7-0-3 10-3-0 13-5-13 20-6-0 21-6-0
 1-0-0 7-0-3 3-2-14 3-2-14 7-0-3 1-0-0
 Scale = 1:36



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.61	Vert(LL) -0.20	8-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.78	Vert(CT) -0.42	8-14	>583		
BCLL 10.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.05	6	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-AS				Weight: 82 lb	FT = 20%

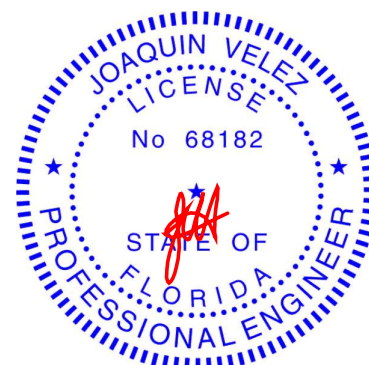
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3		

REACTIONS. (size) 2=0-7-10, 6=0-7-10
 Max Horz 2=-94(LC 8)
 Max Uplift 2=-475(LC 10), 6=-475(LC 10)
 Max Grav 2=927(LC 17), 6=927(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1890/1461, 3-4=-1535/1157, 4-5=-1535/1157, 5-6=-1890/1461
BOT CHORD 2-8=-1241/1776, 6-8=-1241/1776
WEBS 4-8=-514/905, 5-8=-478/517, 3-8=-478/517

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-3-0, Exterior(2R) 7-3-0 to 13-3-0, Interior(1) 13-3-0 to 18-6-0, Exterior(2E) 18-6-0 to 21-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 2=475, 6=475.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2, 2021



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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235202
ASPEN	BGE	Common Supported Gable	4	1		

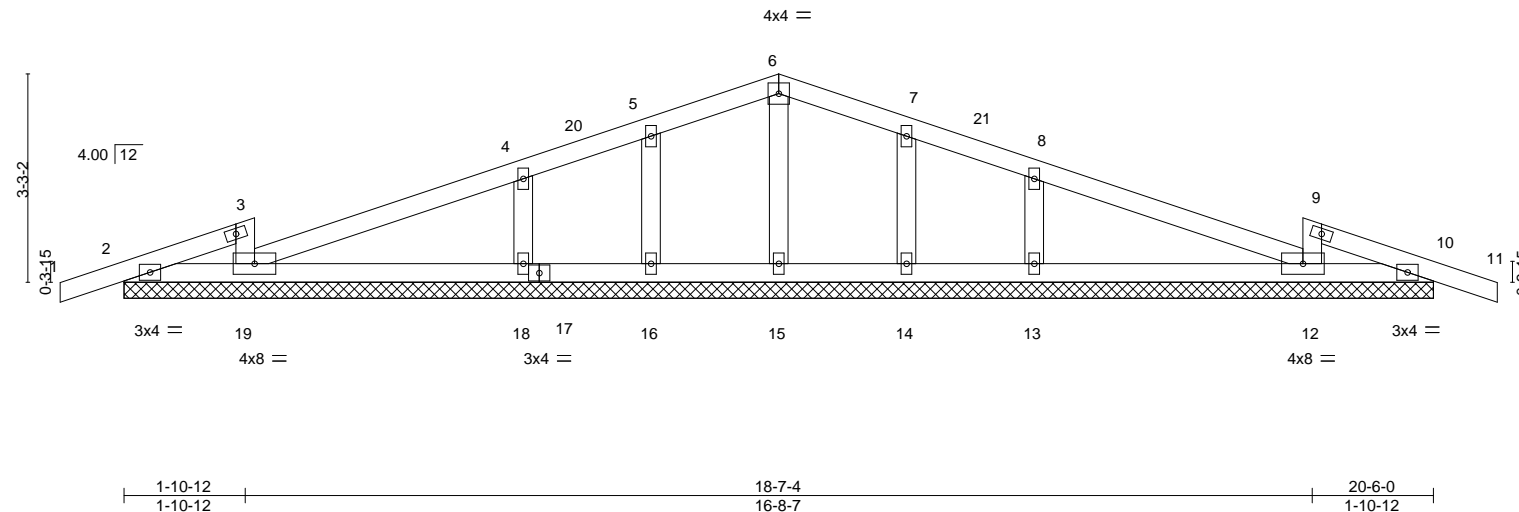
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:49 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-qyrfTwbCFEdCHzH_W3Fx9109jiYH_PlmfHqck5yhhvi

-1-0-0	1-10-12	2-0-8	10-3-0	18-5-8	18-7-4	20-6-0	21-6-0
1-0-0	1-10-12	0-1-12	8-2-8	8-2-8	0-1-12	1-10-12	1-0-0

Scale = 1:36.1



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.33	Vert(LL)	0.02 11	n/r	180	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	0.03 11	n/r	120		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-S					Weight: 82 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 2-19,10-12.

REACTIONS.

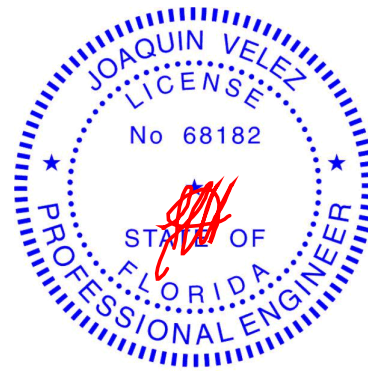
All bearings 20-6-0.
(lb) - Max Horz 2=99(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 19, 16, 14 except 2=123(LC 10), 15=100(LC 10), 18=200(LC 10), 13=253(LC 10), 10=156(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 19, 2, 16, 14, 10 except 15=452(LC 17), 18=379(LC 15), 13=519(LC 16)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-19=-273/426, 4-5=-126/382, 5-6=-66/398, 6-7=-67/406, 7-8=-118/386, 8-12=-279/453
BOT CHORD 18-19=-383/418, 16-18=-383/418, 15-16=-383/418, 14-15=-383/418, 13-14=-383/418, 12-13=-383/418
WEBS 6-15=-350/279, 4-18=-255/399, 8-13=-300/440

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; Gable Roof; Common Truss; MWFRS (directional) and C-C Corner(3E) -1-0-0 to 1-10-12, Exterior(2N) 1-10-12 to 7-3-0, Corner(3R) 7-3-0 to 13-3-0, Exterior(2N) 13-3-0 to 18-7-4, Corner(3E) 18-7-4 to 21-6-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 16, 14 except (jt=lb) 2=123, 15=100, 18=200, 13=253, 10=156.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

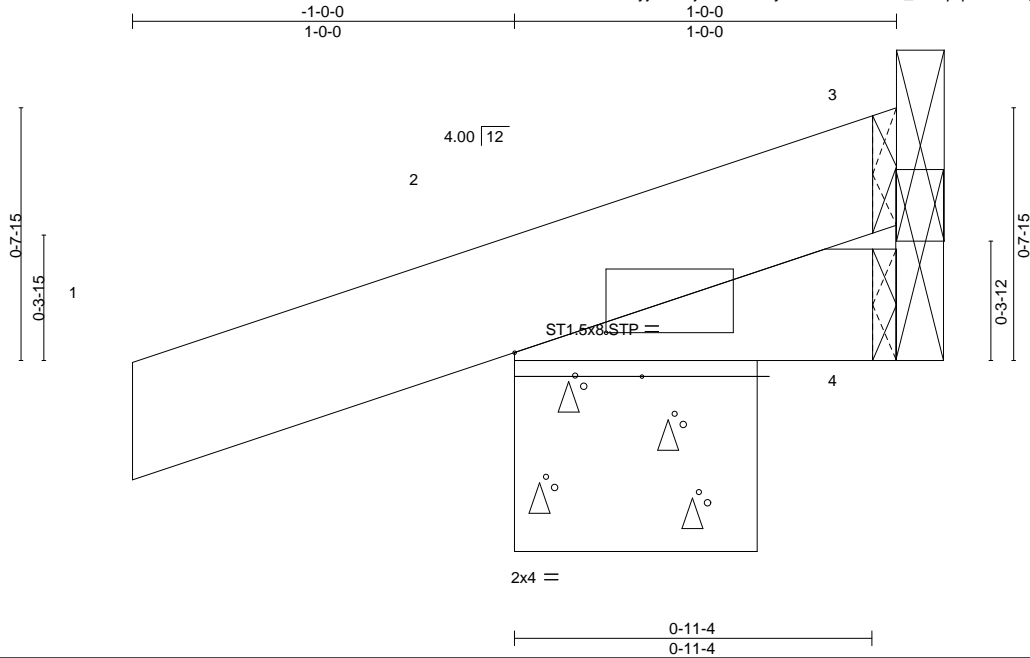


6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235203
ASPEN	CJ1	Jack-Open	56	1	Job Reference (optional)	

Builders FirstSource, Plant City, Florida

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-4UCLBx3_ELwpqCD7CIMgllPGbSOKq9Gnxlb6ClyhgFY
8.430 s Mar 22 2021 MiTek Industries, Inc. Thu Sep 2 13:30:03 2021 Page 1



Scale = 1:6.0

Plate Offsets (X,Y)-- [2:0-2-14,0-0-10]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	-0.00	5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	5	>999	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 5 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

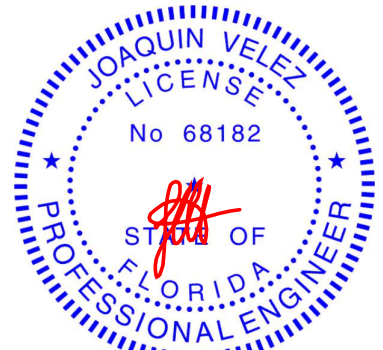
(lb/size) 3=10/Mechanical, 2=130/0-7-10, 4=-1/Mechanical
Max Horz 2=48(LC 10)
Max Uplift 3=-3(LC 7), 2=-138(LC 10), 4=-1(LC 1)
Max Grav 3=14(LC 15), 2=130(LC 1), 4=19(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 3, 138 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard



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Date:

September 2,2021

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235204
ASPEN	CJ3	Jack-Open	48	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:50 2021 Page 1

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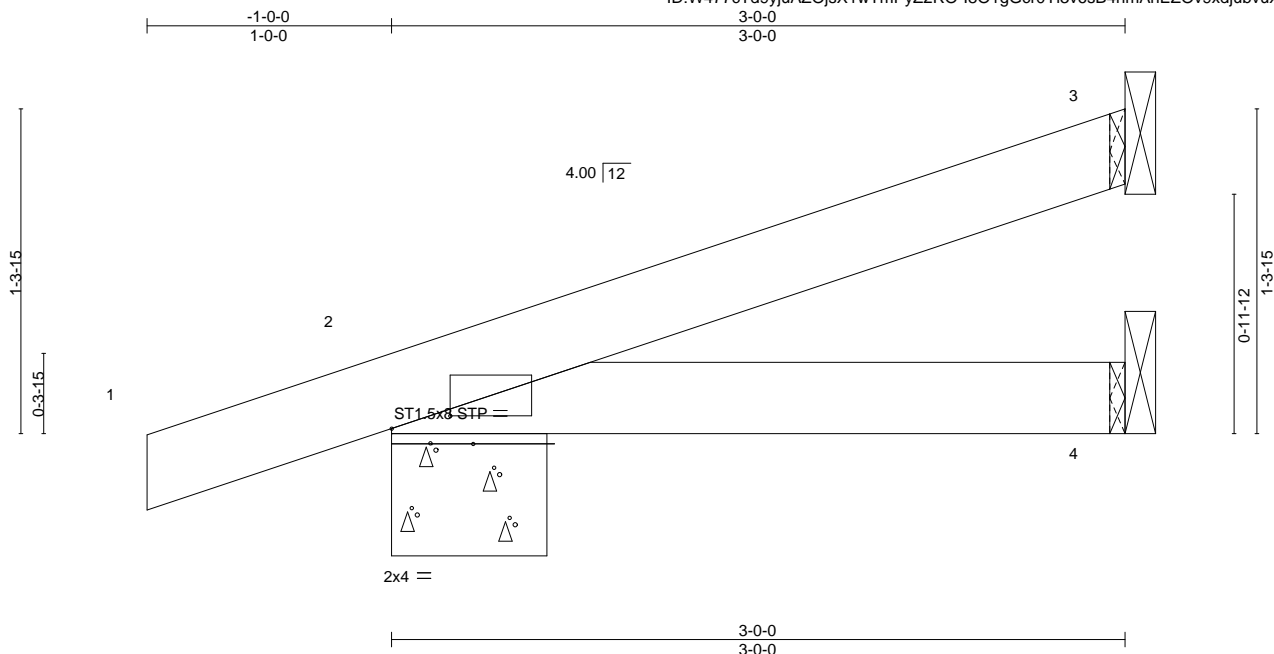


Plate Offsets (X,Y)--	[2:0-2-14,0-0-10]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.11	Vert(LL)	0.01 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.11	Vert(CT)	-0.01 4-7	>999	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

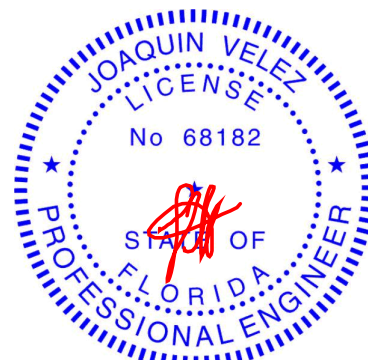
REACTIONS.

(size) 3=Mechanical, 2=0-7-10, 4=Mechanical
Max Horz 2=85(LC 10)
Max Uplift 3=52(LC 10), 2=140(LC 10)
Max Grav 3=70(LC 15), 2=188(LC 1), 4=55(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=140.



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September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Tampa, FL 36610

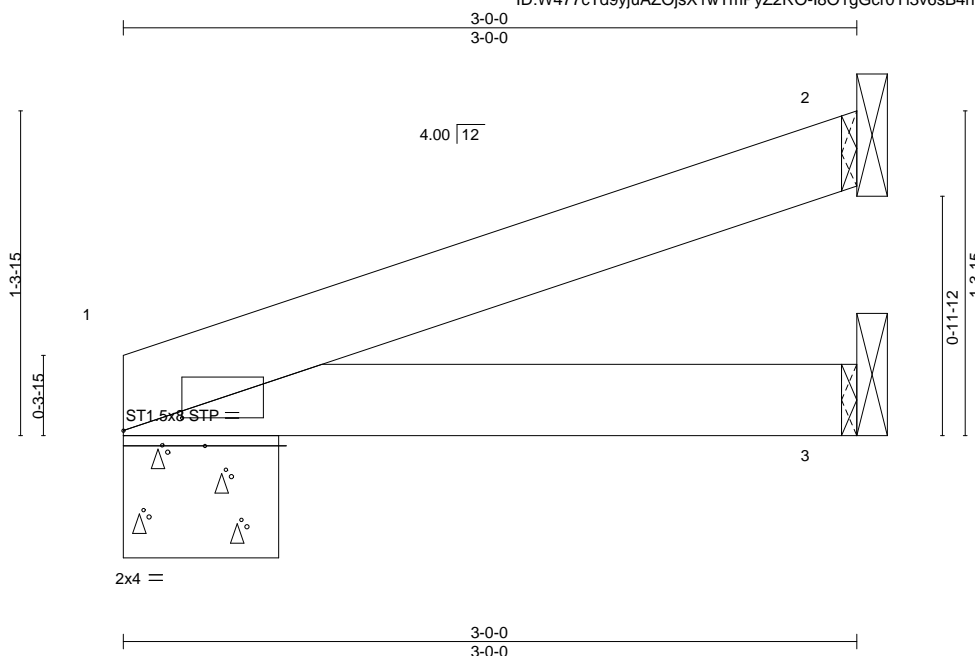
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235205
ASPEN	CJ3A	Jack-Open	2	1		
Job Reference (optional)						

Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:50 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-l8O1gGcr0Yl3v6sB4nmAhEZOE9w1jubvuxa9GXyhhvh



Scale = 1:9.4

Plate Offsets (X,Y)--	[1:0-2-14,0-0-10]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.13	Vert(LL)	0.01 3-6	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.15	Vert(CT)	-0.01 3-6	>999	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

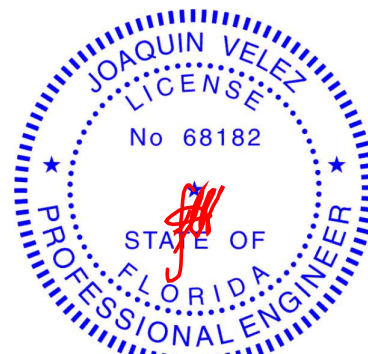
REACTIONS.

(size) 1=0-7-10, 2=Mechanical, 3=Mechanical
Max Horz 1=56(LC 10)
Max Uplift 1=-47(LC 10), 2=-59(LC 10), 3=-7(LC 10)
Max Grav 1=131(LC 15), 2=74(LC 1), 3=59(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235206
ASPEN	CJ3T	Jack-Open	6	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:51 2021 Page 1

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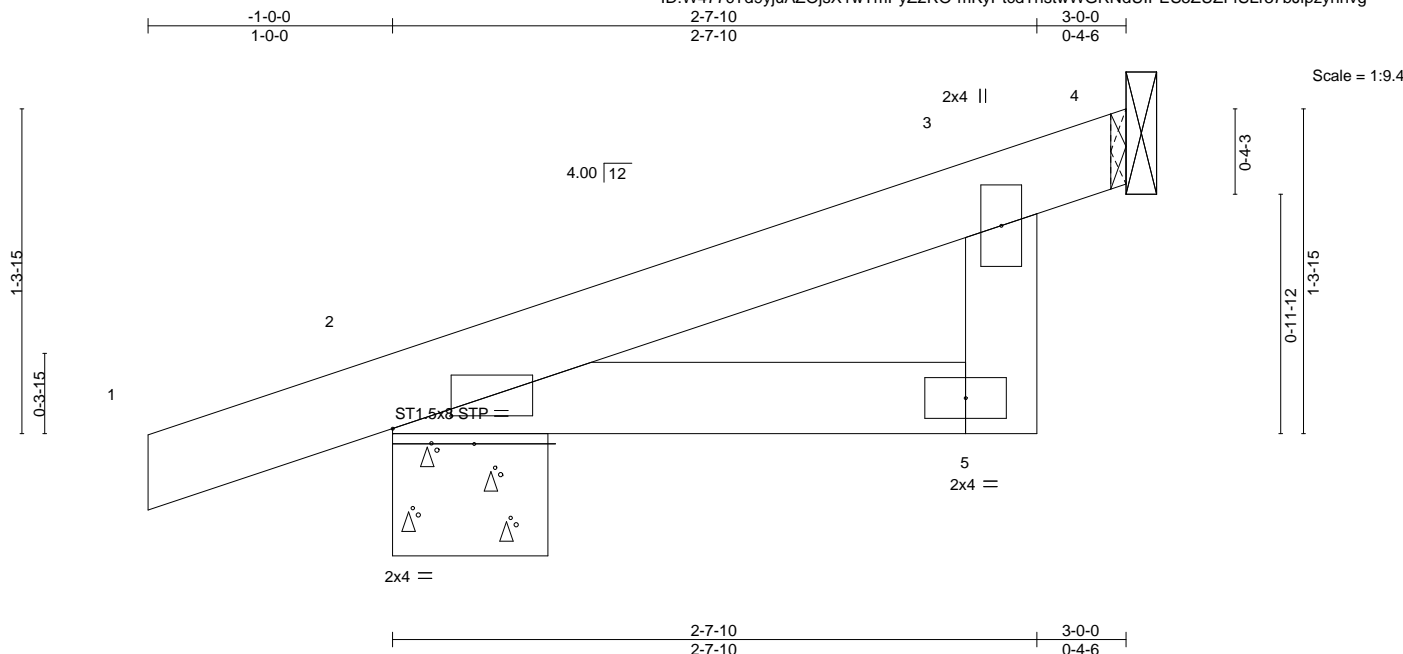


Plate Offsets (X,Y)--	[2:0-2-14,0-0-10]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	0.01 5-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.01 5-8	>999	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

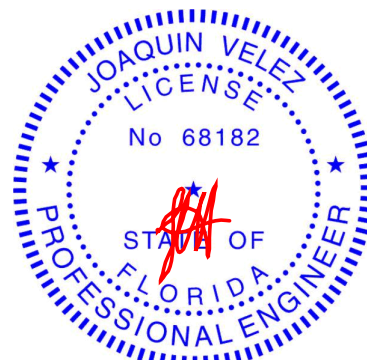
REACTIONS.

(size) 4=Mechanical, 4=Mechanical, 2=0-7-10
Max Horz 2=85(LC 10)
Max Uplift 4=-56(LC 10), 2=-141(LC 10)
Max Grav 4=110(LC 15), 4=99(LC 1), 2=187(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=141.



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Date:

September 2,2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



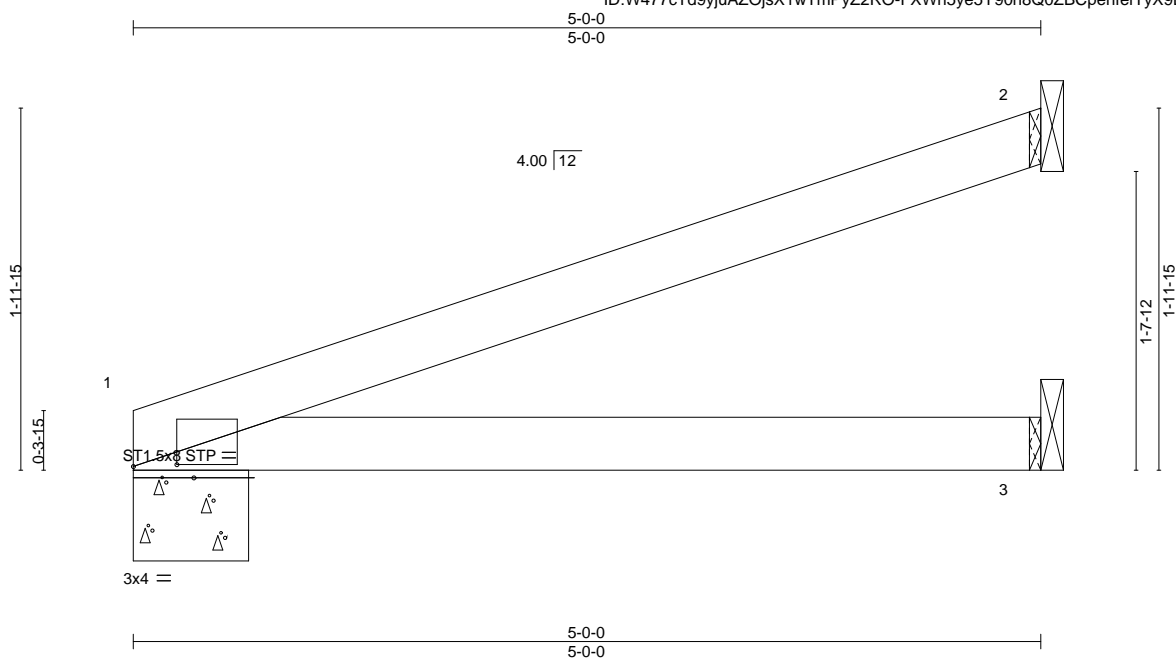
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235208
ASPEN	CJ5A	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:52 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-FXWn5ye5Y90n8Q0ZBCpenfeTyX9Bo5CLF3GLPyhhvf



Scale = 1:12.7

Plate Offsets (X,Y)--	[1:0-2-14,0-0-2]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	0.07 3-6	>903	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.43	Vert(CT)	-0.07 3-6	>849	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

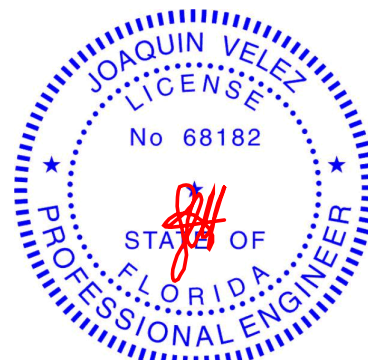
REACTIONS.

(size) 1=0-7-10, 2=Mechanical, 3=Mechanical
Max Horz 1=94(LC 10)
Max Uplift 1=79(LC 10), 2=-108(LC 10), 3=-4(LC 10)
Max Grav 1=220(LC 15), 2=132(LC 1), 3=94(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3 except (jt=lb) 2=108.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235210
ASPEN	CJ5T	Jack-Open	6	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:53 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-jj4AllfjJT8emabmlvKtJtBpGMuGwFKMavoptsyhve

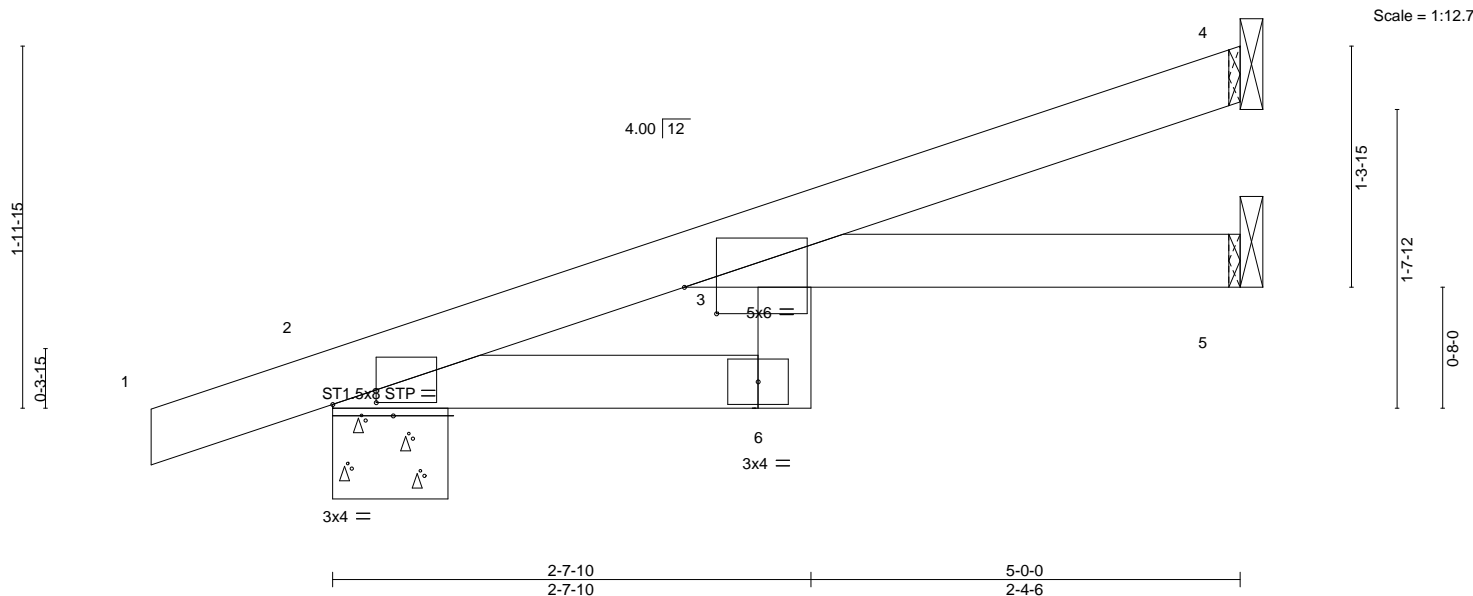


Plate Offsets (X,Y)--	[2:0-2-14,0-0-2], [3:0-2-2,0-1-12]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL)	0.09 6	>635	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.09 6	>640	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.03 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

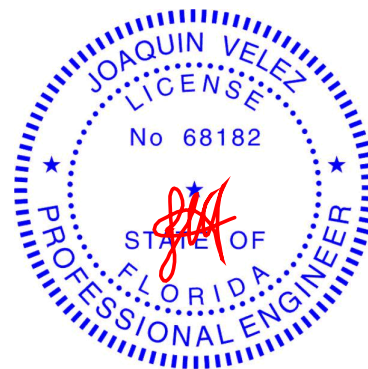
REACTIONS.

(size) 4=Mechanical, 2=0-7-10, 5=Mechanical
Max Horz 2=123(LC 10)
Max Uplift 4=-83(LC 10), 2=-166(LC 10), 5=-19(LC 10)
Max Grav 4=121(LC 15), 2=275(LC 15), 5=100(LC 15)

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

NOTES-

- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=166.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



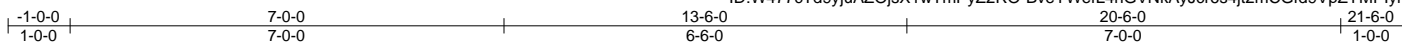
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235211
ASPEN	DH7	Hip Girder	2	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:54 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-BveYWefL4nGVNkAyJcr6s4jt2mCGfd9VpZYMPlyhhvd



Scale = 1:37.2

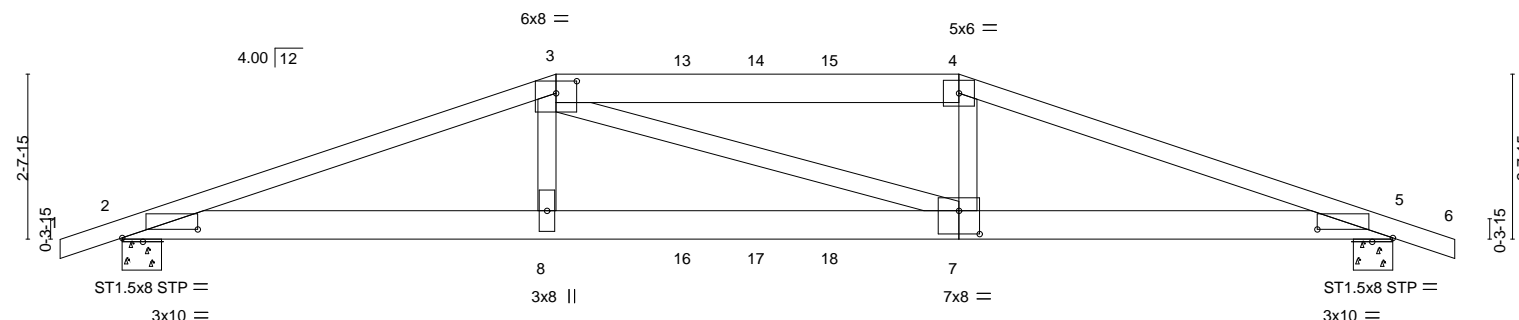


Plate Offsets (X,Y)--	[2:1-2-10,0-1-10], [3:0-4-0,0-2-6], [5:1-2-10,0-1-10], [7:0-4-0,0-4-8]
-----------------------	--

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.93	Vert(LL)	0.24	7-8	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.45	Vert(CT)	-0.37	7-8	>658	180		
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.35	Horz(CT)	0.08	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MSH						Weight: 104 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
3-4: 2x6 SP M 26
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 6-4-2 oc bracing.

REACTIONS.

(size) 2=0-7-10, 5=0-7-10
Max Horz 2=67(LC 6)
Max Uplift 2=997(LC 8), 5=1018(LC 8)
Max Grav 2=1824(LC 2), 5=1839(LC 2)

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

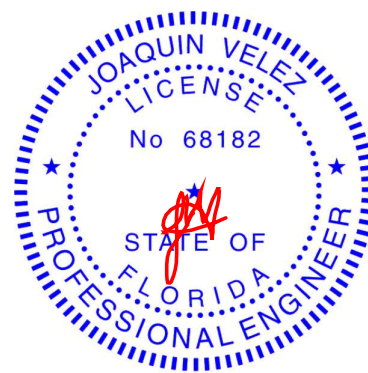
TOP CHORD 2-3=-4946/2544, 3-4=-4698/2524, 4-5=-4983/2609
BOT CHORD 2-8=-2301/4662, 7-8=-2288/4605, 5-7=-2362/4698
WEBS 3-8=-209/911, 3-7=-279/270, 4-7=-176/880

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=997, 5=1018.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 178 lb up at 7-0-0, 129 lb down and 176 lb up at 9-0-12, 129 lb down and 176 lb up at 10-3-0, and 129 lb down and 176 lb up at 11-5-4, and 247 lb down and 356 lb up at 13-6-0 on top chord, and 448 lb down and 287 lb up at 7-0-0, 86 lb down at 9-0-12, 86 lb down at 10-3-0, and 86 lb down at 11-5-4, and 448 lb down and 287 lb up at 13-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 2-5=-20



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	DH7	Hip Girder	2	1	T25235211
Job Reference (optional)					

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 3=-129(B) 4=-200(B) 7=-391(B) 8=-391(B) 13=-129(B) 14=-129(B) 15=-129(B) 16=-64(B) 17=-64(B) 18=-64(B)



Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235212
ASPEN	EJ4	Jack-Open	6	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-f6Cwj_gzr4OM?ul8sKMLOIGCoAc6O9qe2DHwykyhhvc

Job Reference (optional)

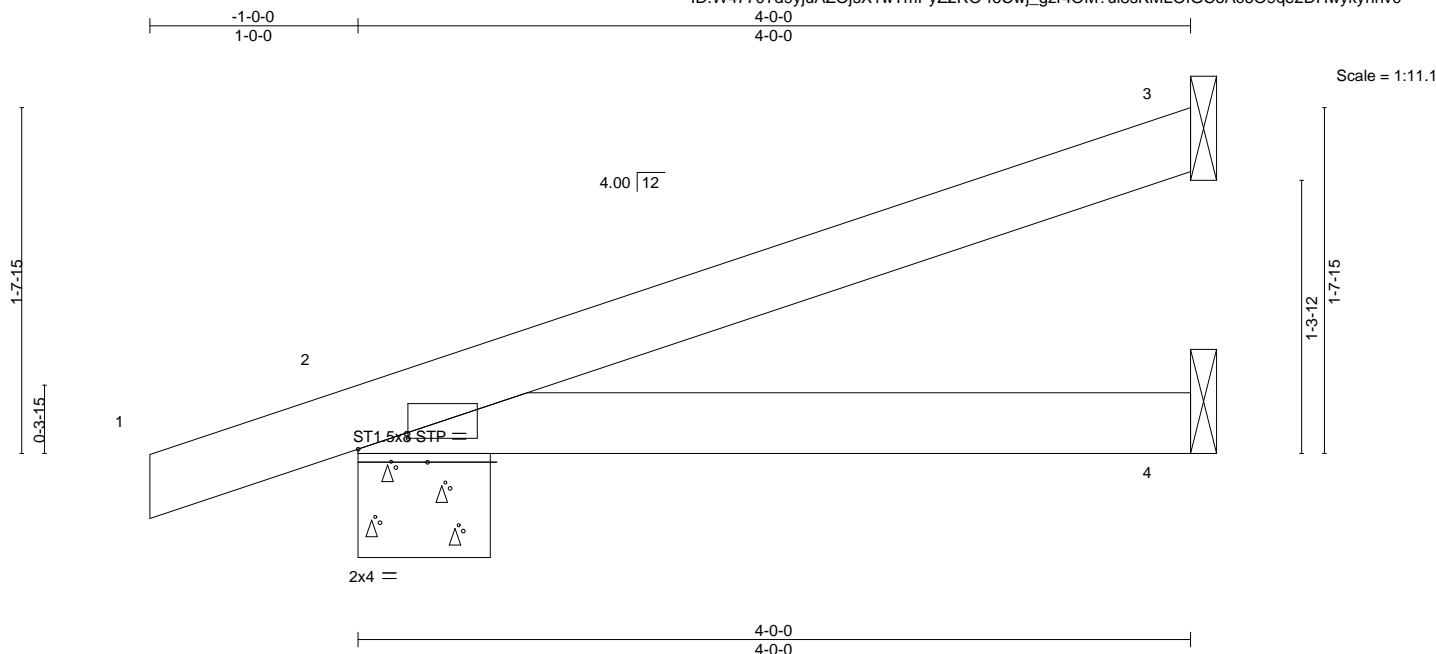


Plate Offsets (X,Y)--	[2:0-2-14,0-0-10]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.23	Vert(LL)	0.02 4-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.22	Vert(CT)	-0.03 4-7	>999	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 14 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

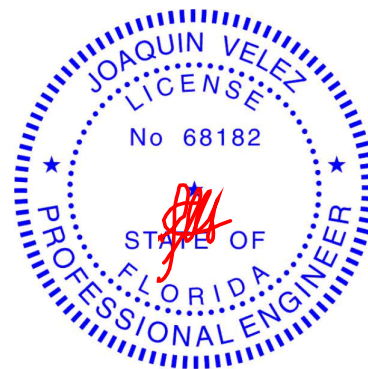
REACTIONS.

(size) 3=Mechanical, 2=0-7-10, 4=Mechanical
Max Horz 2=104(LC 10)
Max Uplift 3=78(LC 10), 2=153(LC 10)
Max Grav 3=99(LC 1), 2=228(LC 15), 4=73(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=153.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235214
ASPEN	EJ7	Jack-Open	72	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-7lmlxKhbcOWDd1KKQ1taxVpEcapH7c4oGt1TUByhv

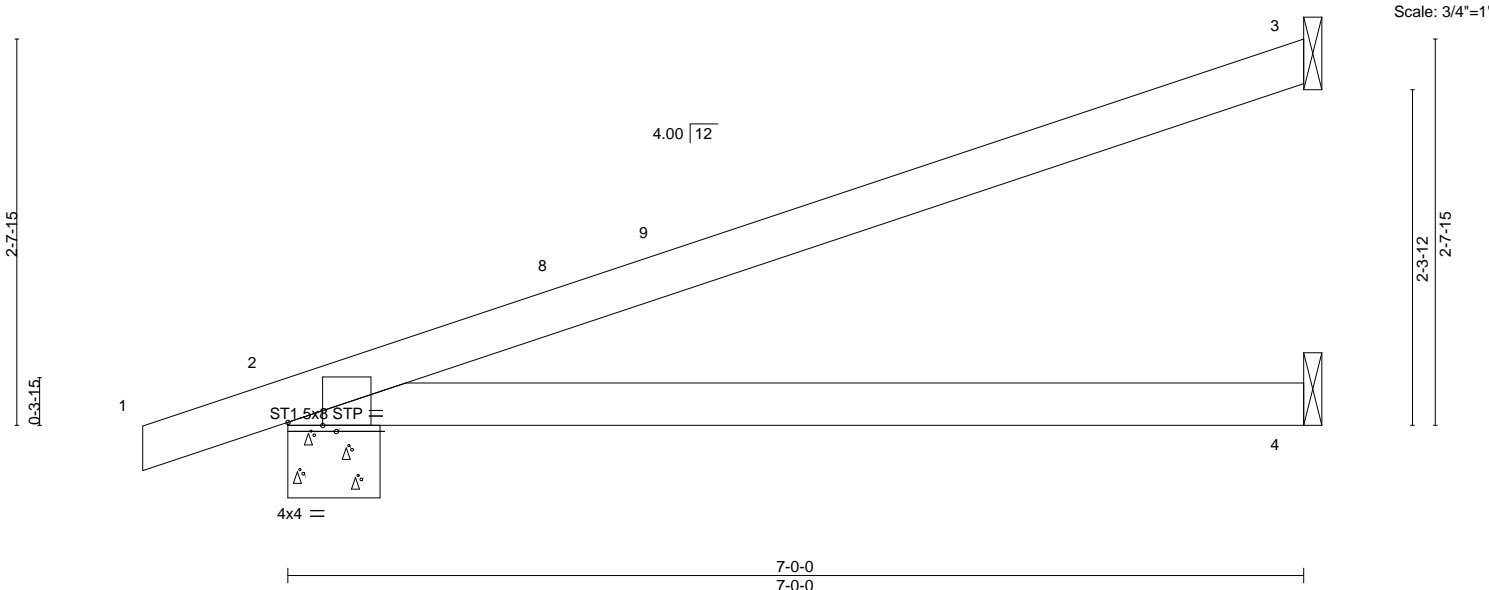


Plate Offsets (X,Y)--		[2:0-2-14,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25	TC 0.80		Vert(LL)	0.22 4-7	>383	240	MT20	244/190
TCDL 10.0		Lumber DOL	1.25	BC 0.80		Vert(CT)	-0.24 4-7	>345	180		
BCLL 10.0 *		Rep Stress Incr	YES	WB 0.00		Horz(CT)	-0.00 3	n/a	n/a		
BCDL 10.0		Code FBC2020/TPI2014		Matrix-AS						Weight: 23 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 3=Mechanical, 2=0-7-10, 4=Mechanical
Max Horz 2=161(LC 10)
Max Uplift 3=154(LC 10), 2=197(LC 10)
Max Grav 3=189(LC 1), 2=360(LC 15), 4=124(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=154, 2=197.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235215
ASPEN	EJ7T	Jack-Open	12	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:57 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-bUJg8fiEMie3EBvX_IOPUjLOuz79s3KxVXm10dyhhva



Scale: 3/4"=1'

Plate Offsets (X,Y)--	[2:0-2-14,Edge], [3:0-1-4,0-1-13], [3:0-7-4,0-1-11]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.89	Vert(LL)	0.34	3-5	>246	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.95	Vert(CT)	-0.30	3-5	>279	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.12	5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						Weight: 25 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

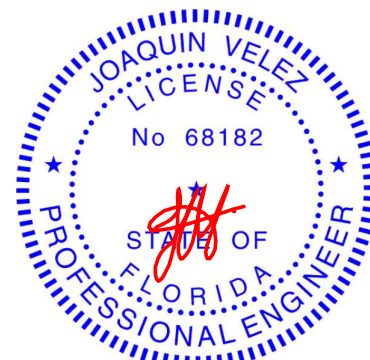
REACTIONS.

(size) 4=Mechanical, 2=0-7-10, 5=Mechanical
Max Horz 2=161(LC 10)
Max Uplift 4=133(LC 10), 2=-195(LC 10), 5=-17(LC 10)
Max Grav 4=178(LC 15), 2=363(LC 15), 5=134(LC 15)

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

NOTES-

- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 2-8-5, Exterior(2R) 2-8-5 to 6-11-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=133, 2=195.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2,2021

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Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235216
ASPEN	HJ4	Diagonal Hip Girder	2	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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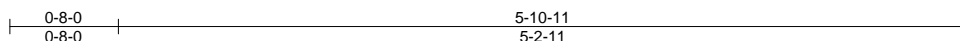
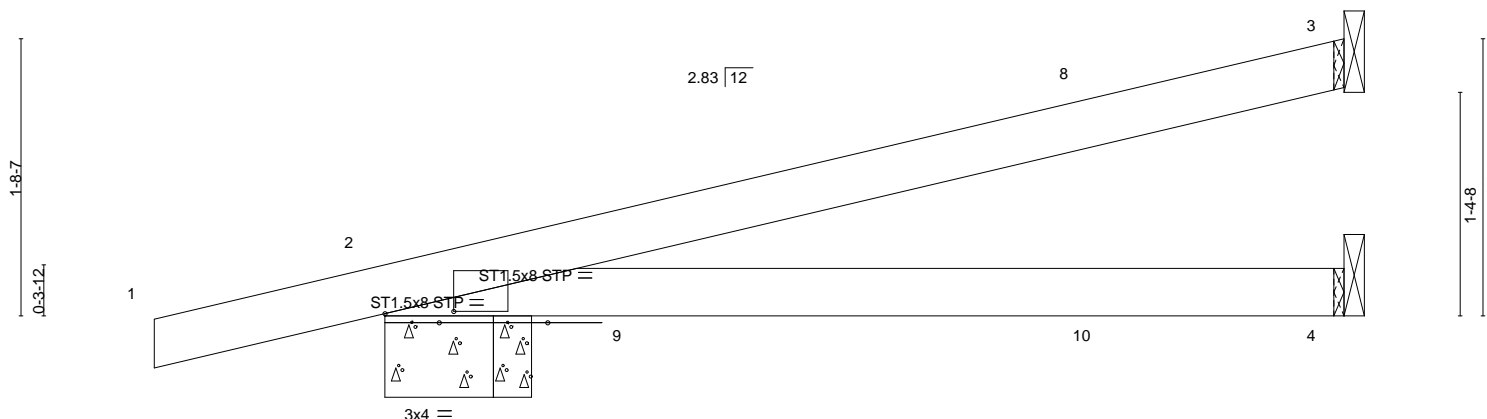


Plate Offsets (X,Y)--	[2:0-5-1,0-0-3]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.50	Vert(LL)	-0.07 4-7	>946	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.46	Vert(CT)	-0.14 4-7	>510	180		
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.00 2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 20 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-8-0, 2=0-8-0.
(lb) - Max Horz 2=107(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 4 except 3=110(LC 8), 2=238(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 3, 4 except 2=356(LC 25), 2=333(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=110, 2=238.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 67 lb up at 4-4-12, and 45 lb down and 67 lb up at 4-4-12 on top chord, and 29 lb down and 6 lb up at 1-6-12, 29 lb down and 6 lb up at 1-6-12, and 18 lb down at 4-4-12, and 18 lb down at 4-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 9=1(F=0, B=0) 10=-20(F=-10, B=-10)



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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



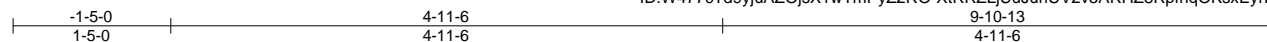
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Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235218
ASPEN	HJ7	Diagonal Hip Girder	21	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:36:59 2021 Page 1

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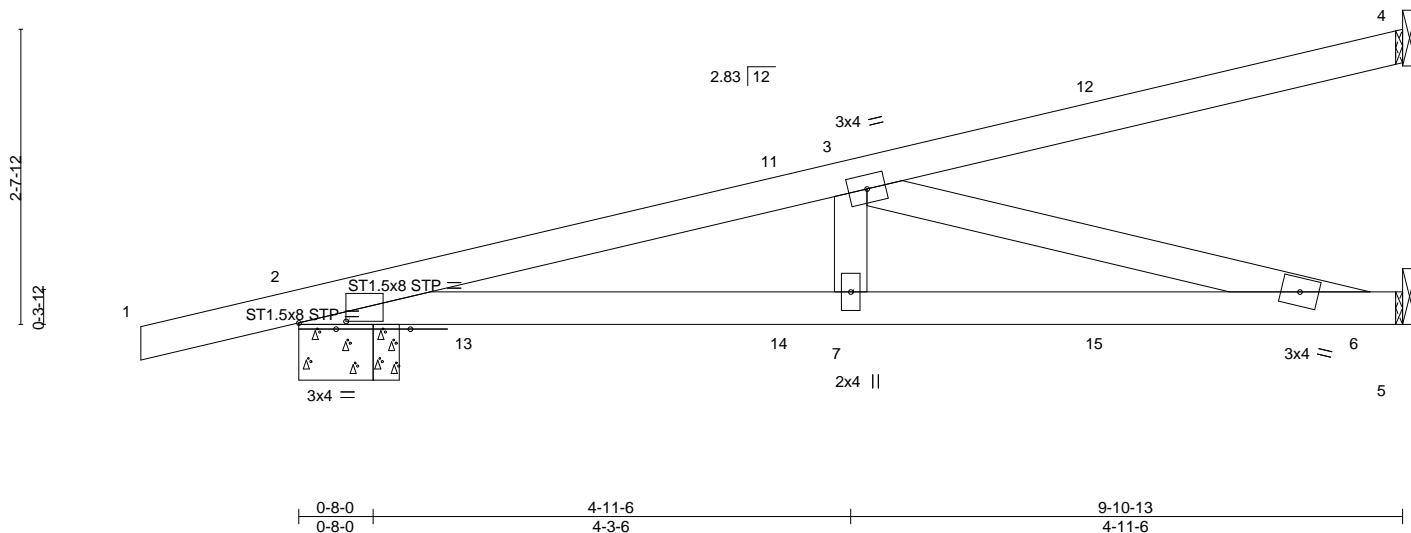


Plate Offsets (X,Y)--	[2:0-5-1,0-0-3]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.56	Vert(LL)	0.15 6-7	>764	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.14 6-7	>847	180		
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.50	Horz(CT)	0.02 5	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 40 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.

REACTIONS.

All bearings Mechanical except (jt=length) 2=0-8-0, 2=0-8-0.

(lb) - Max Horz 2=161(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 4=-148(LC 8), 2=-384(LC 8), 5=-270(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 4 except 2=552(LC 2), 2=536(LC 1), 5=411(LC 2)

FORCES.

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

TOP CHORD 2-3=-1331/826
BOT CHORD 2-7=-897/1288, 6-7=-897/1288
WEBS 3-7=-105/289, 3-6=-1330/926

NOTES-

- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 4, 384 lb uplift at joint 2 and 270 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 67 lb up at 4-4-12, 45 lb down and 67 lb up at 4-4-12, and 77 lb down and 146 lb up at 7-2-11, and 77 lb down and 146 lb up at 7-2-11 on top chord, and 29 lb down and 6 lb up at 1-6-12, 29 lb down and 6 lb up at 1-6-12, 18 lb down at 4-4-12, 18 lb down at 4-4-12, and 40 lb down and 105 lb up at 7-2-11, and 40 lb down and 105 lb up at 7-2-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

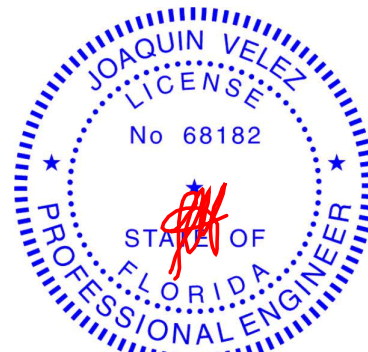
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 12=-87(F=-44, B=-44) 13=1(F=0, B=0) 14=-20(F=-10, B=-10) 15=-70(F=-35, B=-35)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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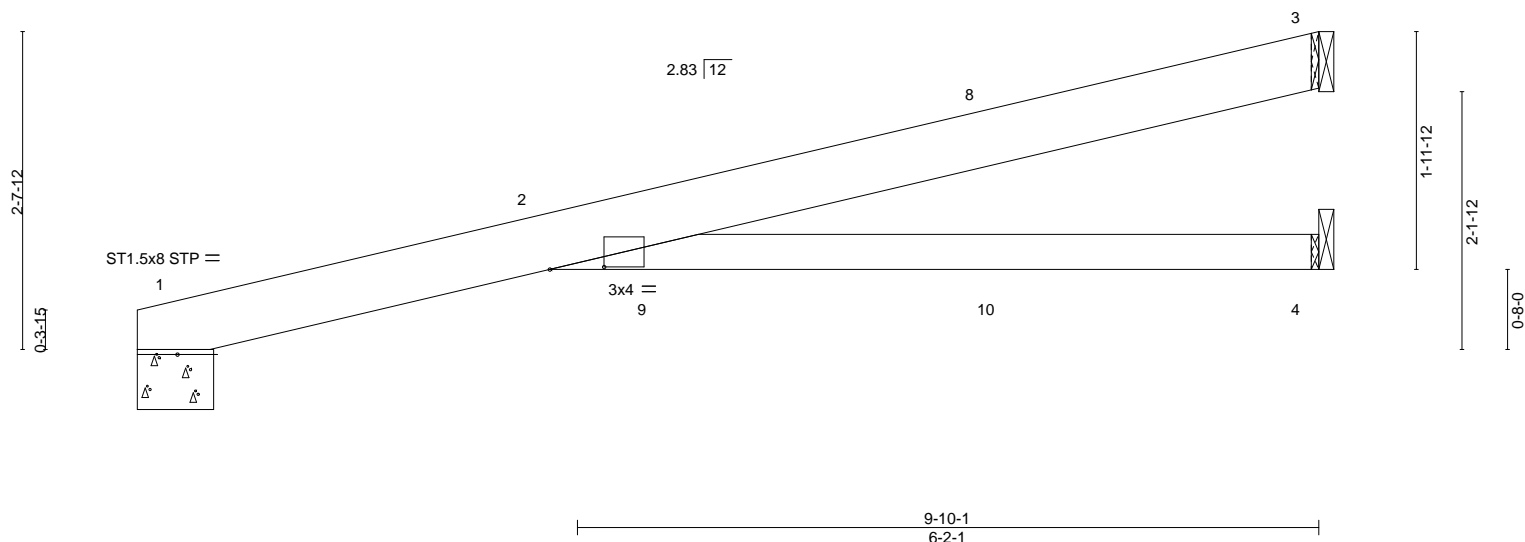
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:00 2021 Page 1
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 3-8-0 6-7-4 9-10-1
 3-8-0 2-11-5 3-2-13
 Scale = 1:19.2



LUMBER-		BRACING-
TOP CHORD	2x6 SP M 26	TOP CHORD
BOT CHORD	2x4 SP No.2	Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-7-10, 3=Mechanical, 4=Mechanical
 Max Horz 1=127(LC 8)
 Max Uplift 1=-265(LC 8), 3=-283(LC 8), 4=-36(LC 8)
 Max Grav 1=548(LC 25), 3=443(LC 1), 4=161(LC 2)

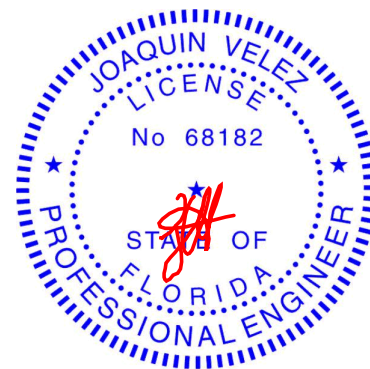
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TC DL=4.2psf; BC DL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl.; GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 265 lb uplift at joint 1, 283 lb uplift at joint 3 and 36 lb uplift at joint 4.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated loads(s) 74 lb down and 107 lb up at 7-1-15, and 74 lb down and 107 lb up at 7-1-15 on top chord, and 39 lb down and 1 lb up at 1-6-1, 39 lb down and 1 lb up at 1-6-1, 76 lb down and 77 lb up at 4-4-0, 76 lb down and 77 lb up at 4-4-0, and 48 lb down and 43 lb up at 7-1-15, and 48 lb down and 43 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-6=-81, 3-6=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 5=-19(F=-10, B=-10) 8=-63(F=-31, B=-31) 9=-152(F=-76, B=-76) 10=-97(F=-48, B=-48)



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
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Date:

September 2, 2021



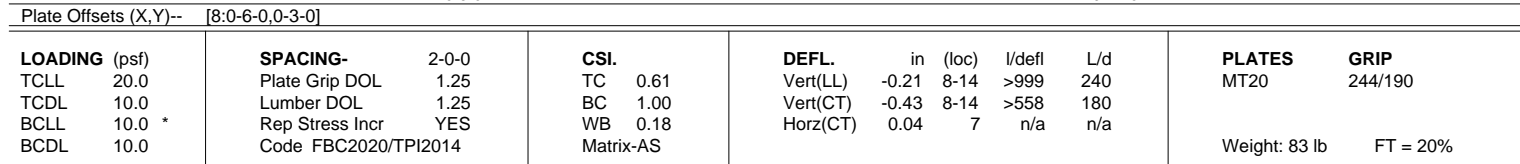
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6904 Parke East Blvd
Tampa, FL 36610

Builders FirstSource (Plant City, FL), Plant City, FL - 33567, 8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:01 2021 Page 1
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 -1-0-0 7-0-1 9-0-0 11-6-0 13-5-15 20-2-0
 1-0-0 7-0-1 1-11-15 2-6-0 1-11-15 6-8-1
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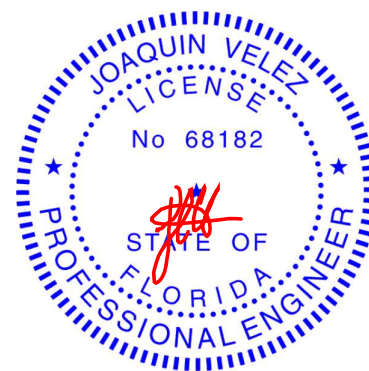
REACTIONS. (size) 7=Mechanical, 2=0-7-10
 Max Horz 2=85(LC 9)
 Max Uplift 7=387(LC 10), 2=-470(LC 10)
 Max Grav 7=868(LC 17), 2=914(LC 17)

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

TOP CHORD	2-3=-1846/1633, 3-4=-1478/1286, 4-5=-1538/1342, 5-6=-1485/1289, 6-7=-1800/1611
BOT CHORD	2-8=-1449/1733, 7-8=-1423/1679
WEBS	3-8=-499/584, 4-8=-314/489, 5-8=-291/444, 6-8=-422/542

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-9-1, Exterior(2R) 4-9-1 to 15-8-15, Interior(1) 15-8-15 to 17-2-0, Exterior(2E) 17-2-0 to 20-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 7 and 470 lb uplift at joint 2.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2, 2021



WARNING: Velly design parameters are listed below and are included with the key reference to AISC M17-13, 161, 319/2020 for ONE 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 **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	K1	Roof Special	2	1	T25235221

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-yS7ZBNMBEGMLynUnl__Bm3lo_tSXFYgfoUoiqyhV

-1-0-0	7-0-3	10-3-0	13-5-13	17-10-0	20-2-0
1-0-0	7-0-3	3-2-13	3-2-13	4-4-3	2-4-0

Scale = 1:36.1

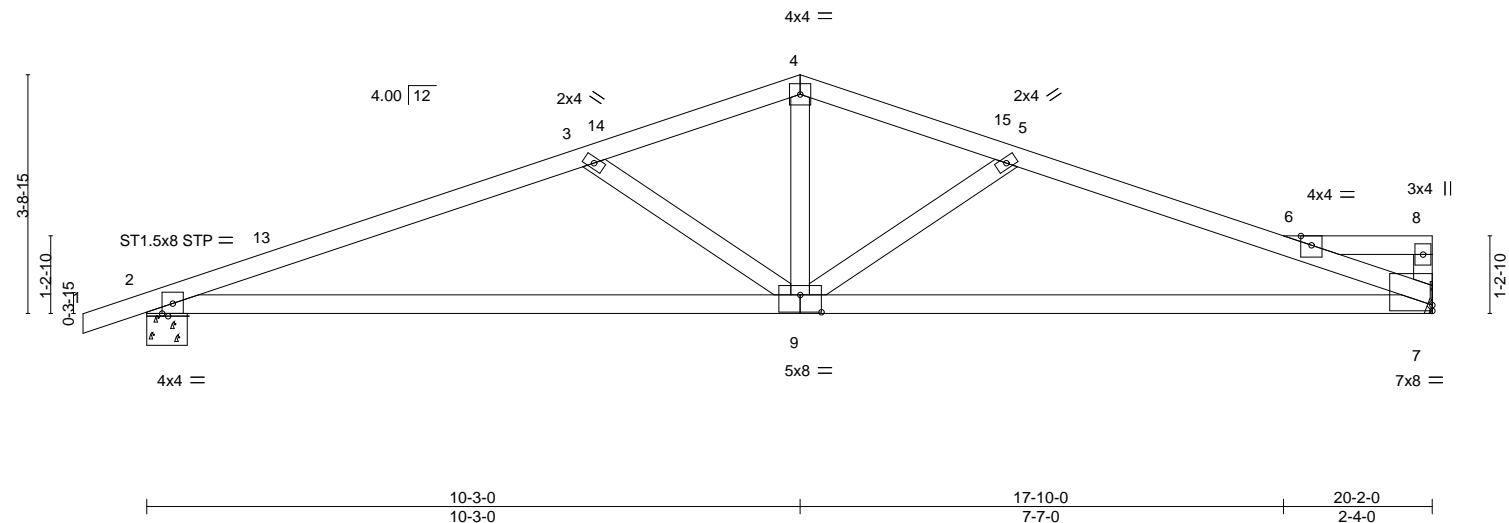


Plate Offsets (X,Y)--		[7:0-0-0,0-1-1], [9:0-4-0,0-3-4]		10-3-0 10-3-0		17-10-0 7-7-0		20-2-0 2-4-0	
LOADING (psf)	SPACING	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.69	Vert(LL)	-0.21 9-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.75	Vert(CT)	-0.43 9-12	>554	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 84 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

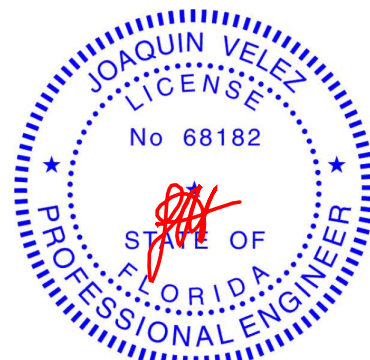
(size) 7=Mechanical, 2=0-7-10
Max Horz 2=90(LC 9)
Max Uplift 7=-386(LC 10), 2=-466(LC 10)
Max Grav 7=862(LC 17), 2=907(LC 17)

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

TOP CHORD 2-3=-1825/1426, 3-4=-1469/1121, 4-5=-1466/1121, 5-6=-1794/1429, 6-7=-1454/1406,
6-8=-364/25
BOT CHORD 2-9=-1323/1714, 7-9=-1328/1705
WEBS 3-9=-479/520, 4-9=-490/856, 5-9=-469/524

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-3-0, Exterior(2R) 7-3-0 to 13-3-0, Interior(1) 13-3-0 to 17-9-11, Exterior(2E) 17-9-11 to 20-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 7 and 466 lb uplift at joint 2.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

September 2,2021

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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

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



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235222
ASPEN	K1A	Roof Special	2	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:02 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-yS7ZBNMBEGMLynUnl_Bm3H3_pwXGggfoUoiqyhV

Job Reference (optional)

-1-0-0	7-0-3	10-3-0	13-5-13	15-10-0	20-2-0
1-0-0	7-0-3	3-2-13	3-2-13	2-4-3	4-4-0

Scale = 1:36.1

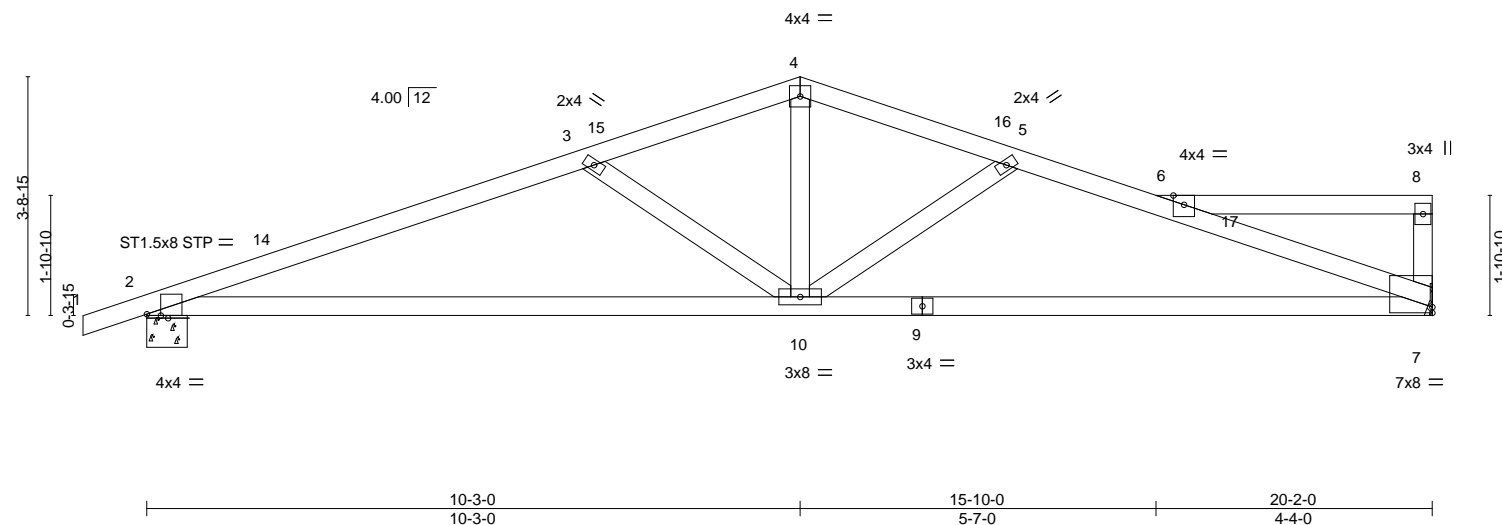


Plate Offsets (X,Y)--	[2:0-2-10,Edge], [7:Edge,0-1-1]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	-0.24 10-13	>985	240
TCDL 10.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.50 10-13	>479	180
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.05 7	n/a	n/a
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS				
						Weight: 88 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

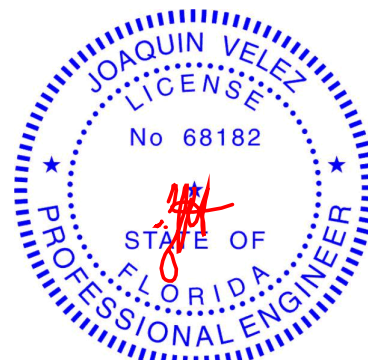
(size) 7=Mechanical, 2=0-7-10
Max Horz 2=118(LC 10)
Max Uplift 7=388(LC 10), 2=464(LC 10)
Max Grav 7=862(LC 17), 2=907(LC 17)

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

TOP CHORD 2-3=-1818/1414, 3-4=-1456/1106, 4-5=-1449/1103, 5-6=-1735/1400, 6-7=-1539/1367
BOT CHORD 2-10=-1360/1710, 7-10=-1345/1681
WEBS 3-10=-489/524, 4-10=-469/834, 5-10=-456/506

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-3-0 to 13-3-0, Interior(1) 13-3-0 to 17-0-4, Exterior(2E) 17-0-4 to 20-0-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 7 and 464 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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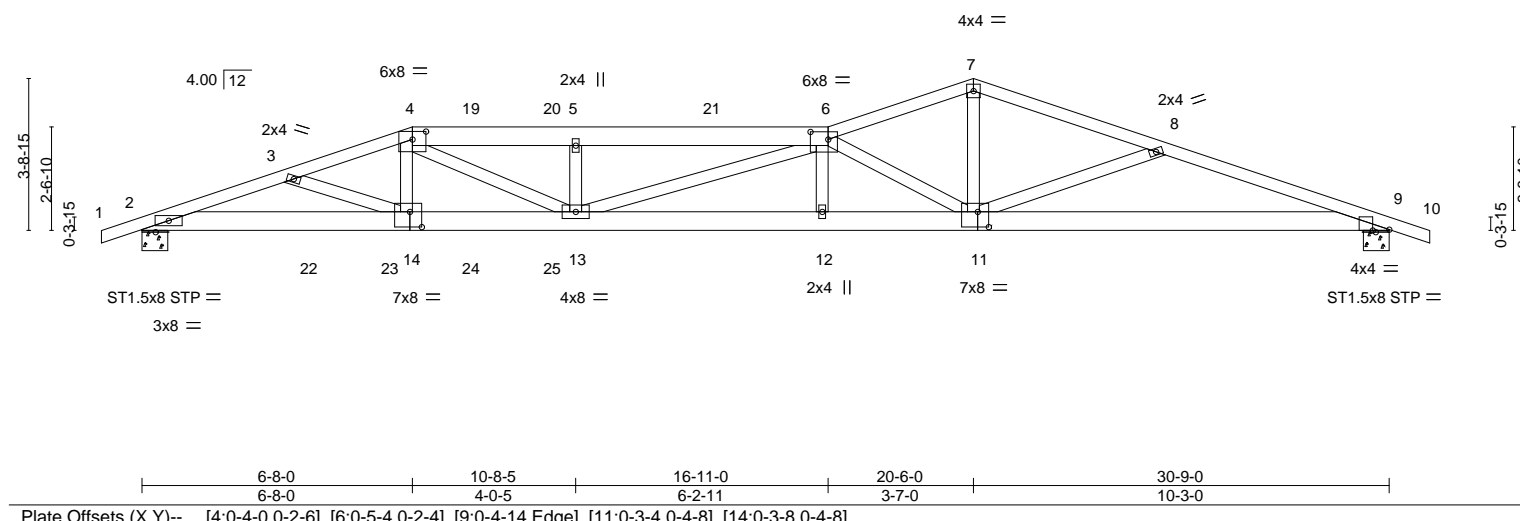


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1-0-0	3-8-14	6-8-0	10-8-5	16-11-0	20-6-0	25-0-0	30-9-0	31-9-0
1-0-0	3-8-14	2-11-2	4-0-5	6-2-11	3-7-0	4-6-0	5-9-0	1-0-0

Scale = 1:56.8



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	Vert(LL) 0.44 12-13 >830 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25	BC 0.88	Vert(CT) -0.65 12-13 >571 180		
BCLL 10.0 *	Rep Stress Incr NO	WB 0.58	Horz(CT) 0.12 9 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MSH		Weight: 352 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
4-6: 2x6 SP No.2, 6-7: 2x4 SP No.3

BOT CHORD 2x6 SP No.2 *Except*
2-14: 2x6 SP M 26

WEBS 2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-7 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 7-11-13 oc bracing.

REACTIONS.

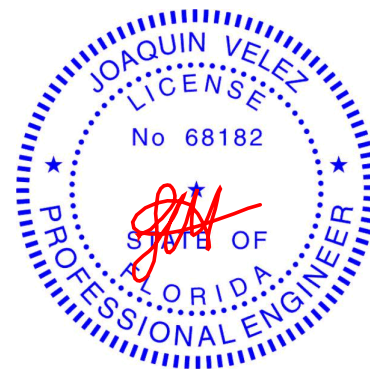
(size) 2=0-7-10, 9=0-7-10
Max Horz 2=-100(LC 23)
Max Uplift 2=-1459(LC 8), 9=-993(LC 8)
Max Gray 2=2891(LC 2), 9=1988(LC 2)

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

TOP CHORD	2-3=-8104/3988, 3-4=-7971/3865, 4-5=-10217/4997, 5-6=-10215/4995, 6-7=-4855/2314, 7-8=-4970/2349, 8-9=-5353/2636
BOT CHORD	2-14=-3470/7675, 13-14=-3536/7533, 12-13=-3990/8562, 11-12=-3992/8555, 9-11=-2404/5068
WEBS	4-14=-324/900, 4-13=-1482/3044, 5-13=-682/509, 6-11=-4602/2307, 7-11=-1266/2873, 8-11=-506/410, 6-13=-1254/1881

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, 2x6 - 2 rows staggered 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 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with the BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1459 lb uplift at joint 2 and 993 lb uplift at joint 9.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 154 lb down and 167 lb up at 8-0-12, and 154 lb down and 167 lb up at 10-0-12 on top chord, and 314 lb down and 173 lb up at 4-0-12, 232 lb down and 153 lb up at 6-0-12, 80 lb down at 8-0-12, and 80 lb down at 10-0-12, and 1250 lb down and 657 lb up at 10-6-4 on bottom chord. The consideration of such connection device(s) is the responsibility of others.



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WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 707f,



6904 Parke East Blvd
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	K2	Roof Special Girder	2	2	T25235223
					Job Reference (optional)

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 - Uniform Loads (plf)
 - Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-10=-60, 2-9=-20
 - Concentrated Loads (lb)
 - Vert: 13=-1205(F) 19=-114(F) 20=-114(F) 22=-306(F) 23=-231(F) 24=-60(F) 25=-60(F)



Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	K3	Roof Special	2	1	T25235224
Job Reference (optional)					

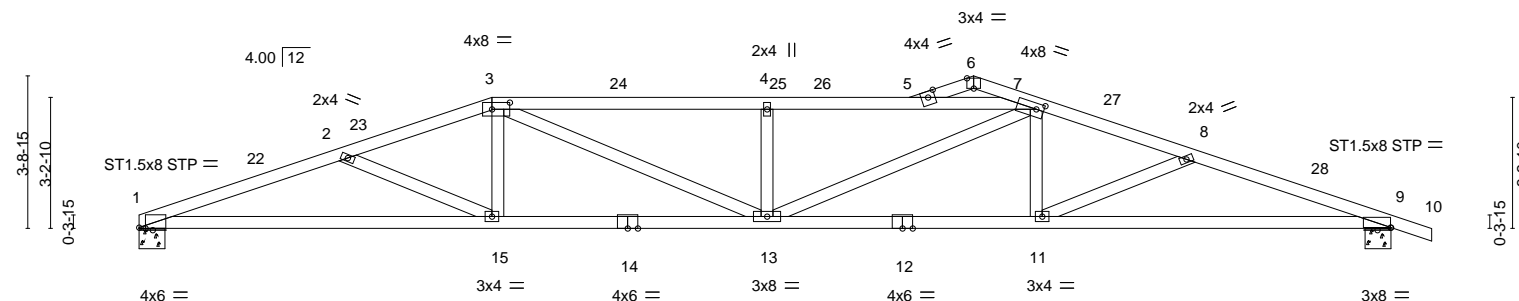
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:05 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-M1oiqOoFU9exCQW3SQYhoPgm2CuUkZQ7LmiSI9yhhvS

5-1-8	8-8-0	15-5-2	18-11-0	20-6-0	22-0-7	25-8-11	30-9-0	31-9-0
5-1-8	3-6-8	6-9-1	3-5-14	1-7-0	1-6-7	3-8-4	5-0-5	1-0-0

Scale = 1:56.6



	8-8-0	15-5-2	18-11-0	22-0-7	24-5-2	30-9-0
	8-8-0	6-9-1	3-5-14	3-1-7	2-4-11	6-3-14

Plate Offsets (X,Y)-- [1:0-1-14,Edge], [3:0-5-4,0-2-0], [6:0-2-0,Edge], [7:0-2-4,0-1-12], [9:0-0-2,0-0-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.88	Vert(LL)	0.38 13	>960	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.57 11-13	>645	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	0.13 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 144 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1 *Except*
12-14: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

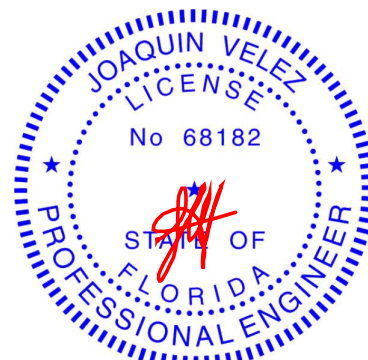
(size) 1=0-7-10, 9=0-7-10
Max Horz 1=101(LC 8)
Max Uplift 1=592(LC 10), 9=674(LC 10)
Max Grav 1=1337(LC 15), 9=1381(LC 16)

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

TOP CHORD 1-2=-3411/2513, 2-3=-3082/2215, 3-4=-3590/2632, 4-5=-3590/2632, 5-7=-3015/2224,
5-6=-553/403, 6-7=-584/456, 7-8=-3098/2176, 8-9=-3405/2434
BOT CHORD 1-15=-2275/3296, 13-15=-1901/2952, 11-13=-1848/2860, 9-11=-2187/3219
WEBS 2-15=-399/412, 3-15=-98/449, 8-11=-402/358, 7-11=-71/438, 3-13=-511/790,
4-13=-509/528, 7-13=-583/909

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-14, Interior(1) 3-0-14 to 5-7-2, Exterior(2R) 5-7-2 to 11-8-14, Interior(1) 11-8-14 to 18-11-5, Exterior(2R) 18-11-5 to 23-6-14, Interior(1) 23-6-14 to 28-8-2, Exterior(2E) 28-8-2 to 31-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 592 lb uplift at joint 1 and 674 lb uplift at joint 9.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	K4	Hip	2	1	T25235225

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-qDM41kptFTmoqa5F083wLcDzucCAT4JGZQS?rcyhhvR

6-3-12	10-8-0	15-4-8	20-1-0	24-5-4	30-9-0	31-9-0
6-3-12	4-4-4	4-8-8	4-8-8	4-4-4	6-3-12	1-0-0

Scale = 1:55.5

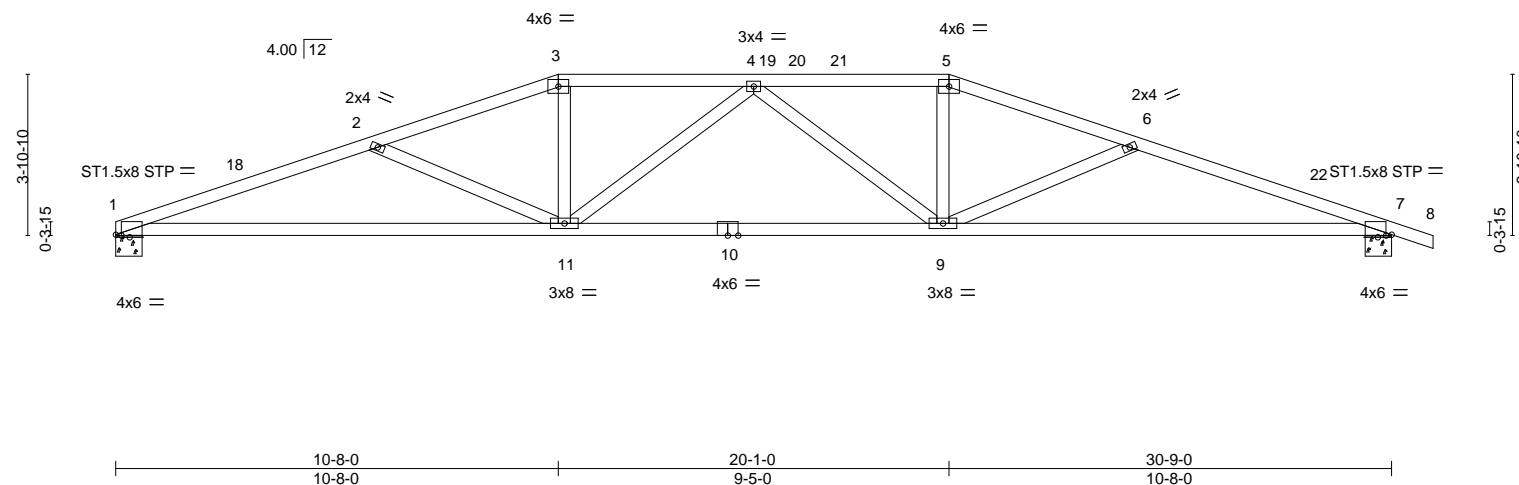


Plate Offsets (X,Y)--	[1:0-1-10,Edge], [7:0-1-10,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.75	Vert(LL)	-0.34 11-14	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.89	Vert(CT)	-0.69 11-14	>532	180		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.12 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS					Weight: 136 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

(size) 1=0-7-10, 7=0-7-10
Max Horz 1=105(LC 8)
Max Uplift 1=592(LC 10), 7=674(LC 10)
Max Grav 1=1338(LC 15), 7=1388(LC 16)

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

TOP CHORD 1-2=-3289/2640, 2-3=-2836/2208, 3-4=-2675/2167, 4-5=-2673/2158, 5-6=-2833/2198,
6-7=-3281/2614
BOT CHORD 1-11=-2374/3183, 9-11=-2079/2839, 7-9=-2346/3103
WEBS 2-11=-558/600, 3-11=-343/688, 4-11=-375/306, 4-9=-379/317, 5-9=-336/687,
6-9=-552/578

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=31ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-14, Interior(1) 3-0-14 to 6-1-5, Exterior(2R) 6-1-5 to 15-0-3, Interior(1) 15-0-3 to 15-8-13, Exterior(2R) 15-8-13 to 24-7-11, Interior(1) 24-7-11 to 28-8-2, Exterior(2E) 28-8-2 to 31-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 592 lb uplift at joint 1 and 674 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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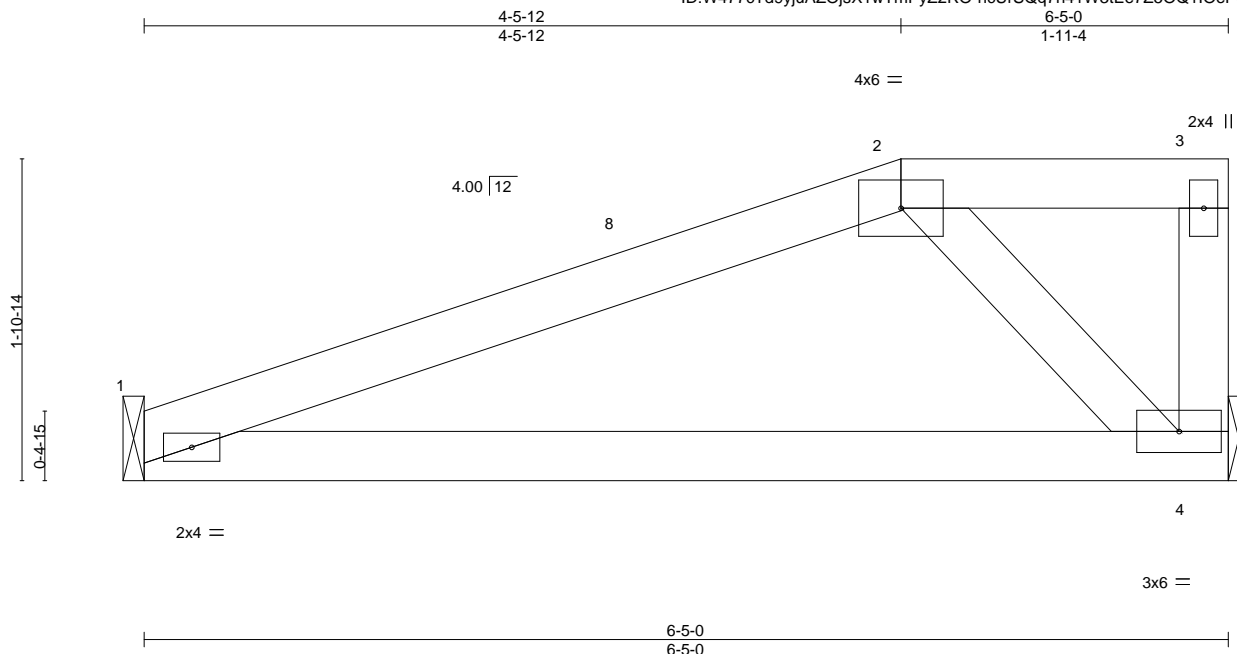
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235227
ASPEN	L1	Half Hip	2	1		

Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-ncUrSQq7n41W3tEe7Z5OQ11OeP0mx0DZ1kx6vUyhvP



Scale = 1:13.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.41	Vert(LL)	0.07	4-7	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.12	4-7	>628	180	244/190
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	1	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
									Weight: 25 lb FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

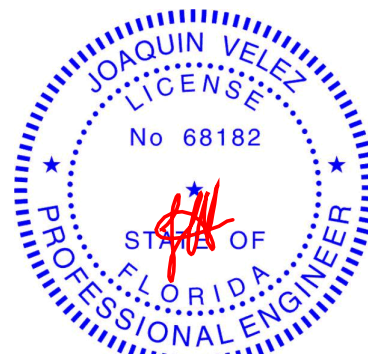
(size) 1=Mechanical, 4=Mechanical
Max Horz 1=86(LC 10)
Max Uplift 1=109(LC 10), 4=133(LC 10)
Max Grav 1=280(LC 15), 4=277(LC 15)

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

BOT CHORD 1-4=-294/183
WEBS 2-4=-246/396

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Exterior(2R) 3-0-0 to 4-5-12, Exterior(2E) 4-5-12 to 6-3-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 1 and 133 lb uplift at joint 4.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Joaquin Velez PE No.68182
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6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



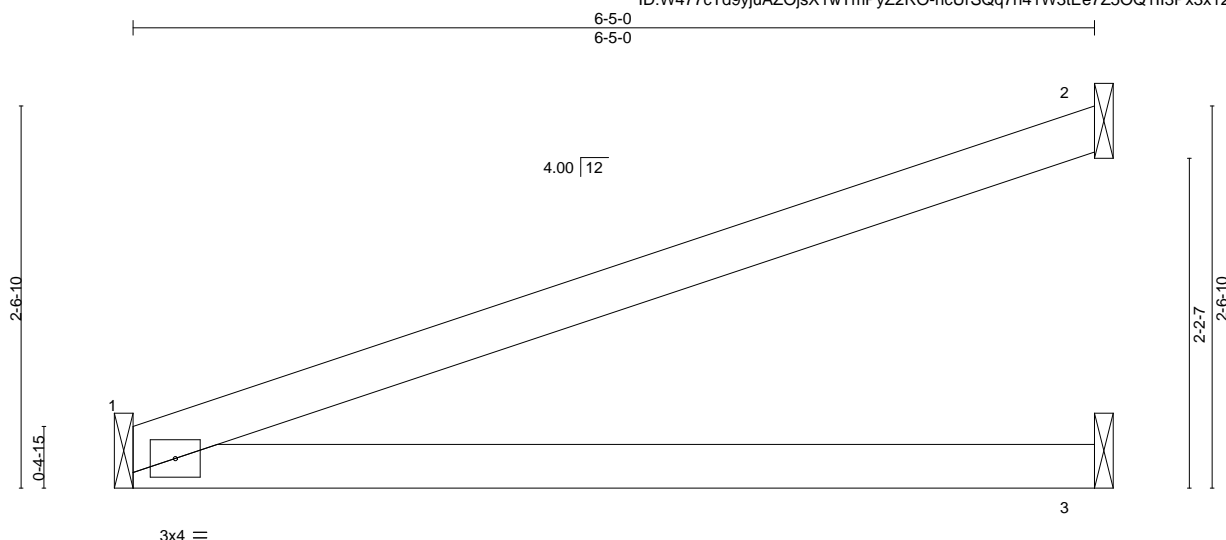
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Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235228
ASPEN	L2	Jack-Open	4	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

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ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-ncUrSQq7n41W3tEe7Z5OQ1I13Px3x12Z1kx6vUyhvP



LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	0.15 3-6 >496 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.18 3-6 >413 180				
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01 2 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS							
								Weight: 20 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 1=Mechanical, 2=Mechanical, 3=Mechanical
Max Horz 1=121(LC 10)
Max Uplift 1=-100(LC 10), 2=-146(LC 10)
Max Grav 1=283(LC 15), 2=174(LC 1), 3=118(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint 1 and 146 lb uplift at joint 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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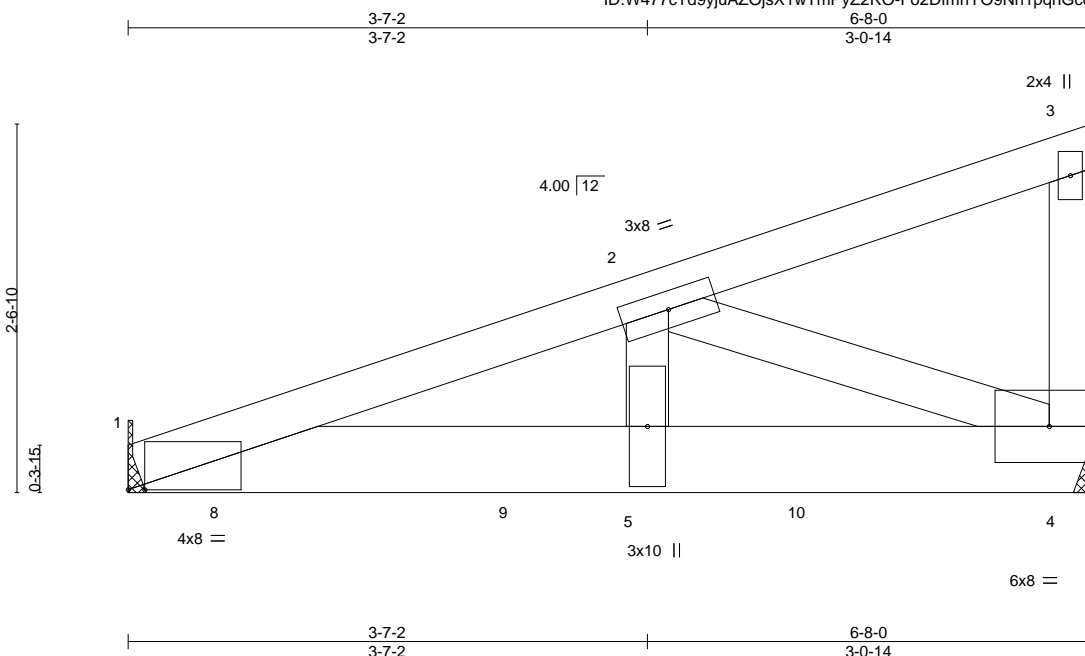
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	LGR	Jack-Closed Girder	2	1	T25235229
Job Reference (optional)					

Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:09 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-Fo2DfmrlYO9Nh1pqhGcdzFrYUpDPgLPiGOgfRwyhvhvO



Scale: 3/4"=1'

Plate Offsets (X,Y)--	[1:0-1-6,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.47	Vert(LL)	0.06 5-7	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.92	Vert(CT)	-0.08 5-7	>918	180		
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.63	Horz(CT)	0.02 4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP					Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-13 oc bracing.

REACTIONS.

(size) 1=Mechanical, 4=Mechanical
Max Horz 1=123(LC 8)
Max Uplift 1=802(LC 8), 4=637(LC 8)
Max Grav 1=1720(LC 2), 4=1285(LC 2)

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

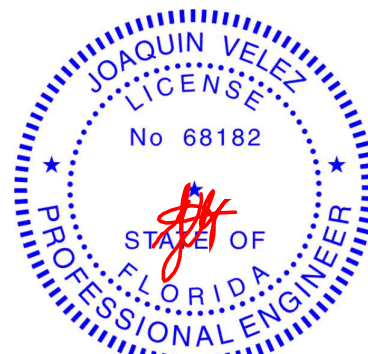
TOP CHORD 1-2=-2569/1181
BOT CHORD 1-5=-1209/2443, 4-5=-1209/2443
WEBS 2-5=-673/1552, 2-4=-2623/1298

NOTES-

- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 802 lb uplift at joint 1 and 637 lb uplift at joint 4.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 827 lb down and 404 lb up at 0-8-12, and 815 lb down and 406 lb up at 2-8-12, and 815 lb down and 408 lb up at 4-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 1-4=-20
Concentrated Loads (lb)
Vert: 8=-789(F) 9=-779(F) 10=-779(F)



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235230
ASPEN	MH7	Hip Girder	2	1		

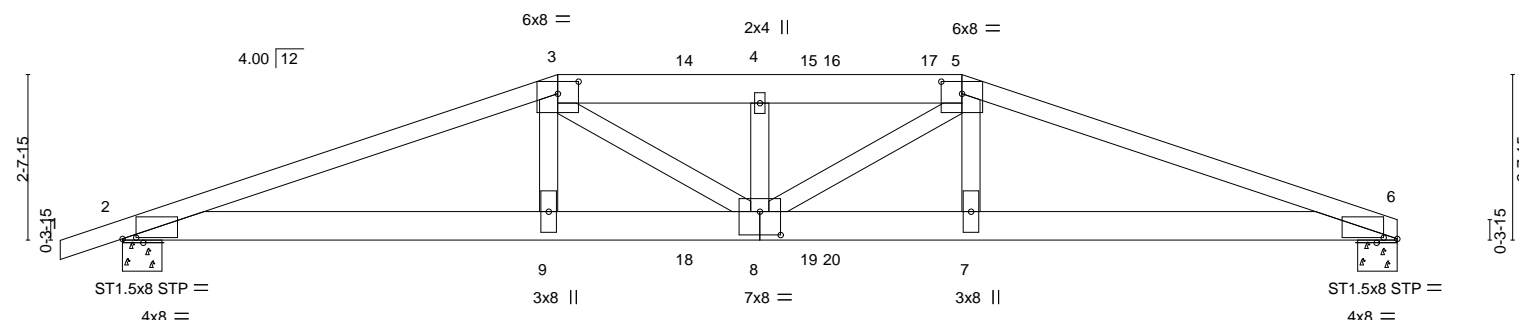
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:10 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-j_cbt6sNjHhDIBO1Fz7sVSOiUDgiPs1sU2QD_NyhvhN



Scale = 1:37.1



	7-0-0	10-3-0	13-6-0	20-6-0
	7-0-0	3-3-0	3-3-0	7-0-0

Plate Offsets (X,Y)--	[2:0-2-10,0-0-4], [3:0-4-0,0-2-6], [5:0-4-0,0-2-6], [6:0-2-10,0-0-4], [8:0-4-0,0-4-8]			
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES
TCLL 20.0	2-0-0	TC 0.52	in (loc)	MT20
TCDL 10.0	Plate Grip DOL 1.25	BC 0.47	Vert(LL) 0.28 8 >877 240	GRIP 244/190
BCLL 10.0 *	Lumber DOL 1.25	WB 0.35	Vert(CT) -0.36 8 >687 180	
BCDL 10.0	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.08 6 n/a n/a	
	Code FBC2020/TPI2014			Weight: 106 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31 *Except*
3-5: 2x6 SP No.2
BOT CHORD 2x6 SP M 26
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-10-1 oc bracing.

REACTIONS.

(size) 6=0-7-10, 2=0-7-10
Max Horz 2=68(LC 24)
Max Uplift 6=1052(LC 8), 2=1129(LC 8)
Max Grav 6=1858(LC 2), 2=1894(LC 2)

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

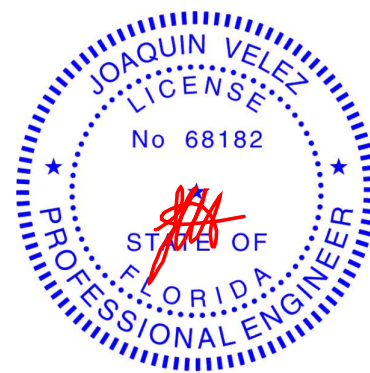
TOP CHORD 2-3=-5113/2982, 3-4=-5333/3102, 4-5=-5335/3103, 5-6=-5177/3015
BOT CHORD 2-9=-2743/4820, 8-9=-2714/4762, 7-8=-2745/4822, 6-7=-2775/4881
WEBS 3-9=-456/898, 3-8=-462/801, 4-8=-640/490, 5-8=-415/733, 5-7=-458/927

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1052 lb uplift at joint 6 and 1129 lb uplift at joint 2.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 148 lb down and 178 lb up at 7-0-0, 129 lb down and 176 lb up at 9-0-12, 129 lb down and 176 lb up at 11-0-12, and 129 lb down and 176 lb up at 11-5-4, and 148 lb down and 178 lb up at 13-6-0 on top chord, and 551 lb down and 460 lb up at 7-0-0, 86 lb down at 9-0-12, 86 lb down at 11-0-12, and 86 lb down at 11-5-4, and 551 lb down and 460 lb up at 13-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-5=-60, 5-6=-60, 2-6=-20



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

Continued on page 2

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235230
ASPEN	MH7	Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:10 2021 Page 2
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-j_cbt6sNJhHDIBO1Fz7sVSOiUDgiPs1sU2QD_NyhhvN

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-129(B) 5=-129(B) 9=-518(B) 7=-518(B) 14=-129(B) 15=-129(B) 16=-129(B) 18=-64(B) 19=-64(B) 20=-64(B)

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235231
ASPEN	N	Monopitch	32	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:11 2021 Page 1

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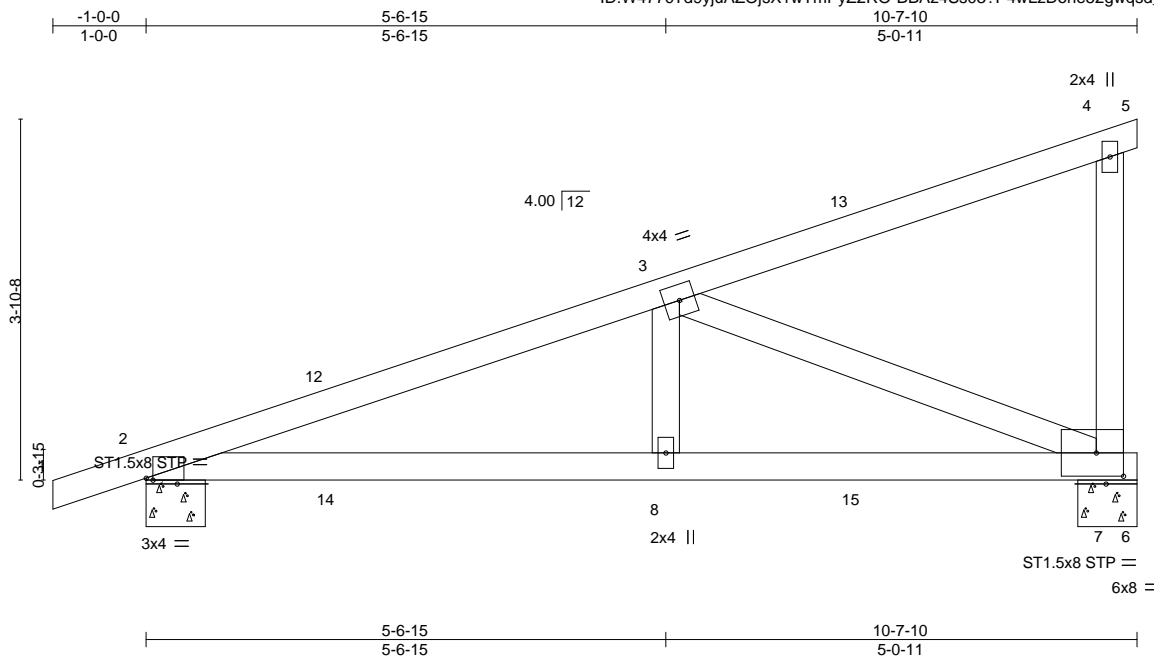


Plate Offsets (X,Y)-- [2:0-0-14,Edge], [7:0-3-8,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.14 8-11 >861 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	0.13 8-11 >972 180		
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	-0.02 7 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-AS				Weight: 49 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

REACTIONS.

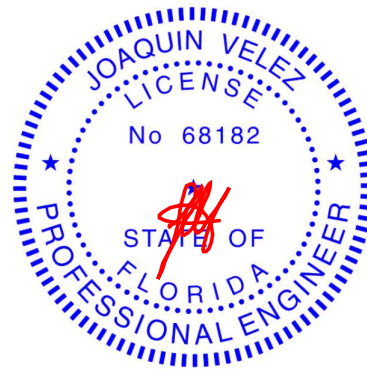
(size) 2=0-7-10, 7=0-7-10
Max Horz 2=230(LC 10)
Max Uplift 2=-460(LC 10), 7=-451(LC 10)
Max Grav 2=492(LC 2), 7=459(LC 18)

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

TOP CHORD 2-3=-788/1683
BOT CHORD 2-8=-1852/733, 7-8=-1852/733
WEBS 3-8=-722/239, 3-7=-788/1993

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 7-7-10, Exterior(2E) 7-7-10 to 10-7-10 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 460 lb uplift at joint 2 and 451 lb uplift at joint 7.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235232
ASPEN	NH7	Half Hip Girder	8	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:12 2021 Page 1
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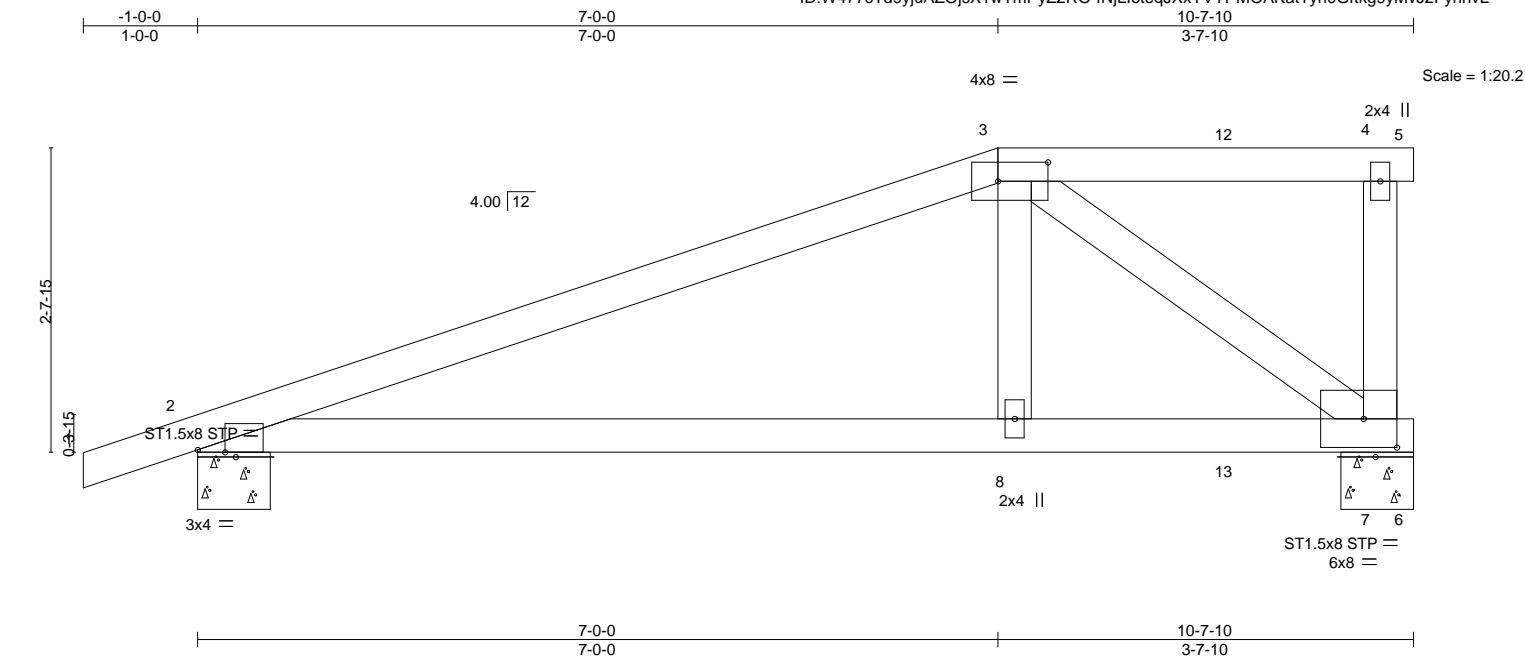


Plate Offsets (X,Y)-- [2:0-2-14,Edge], [3:0-5-4,0-2-0], [7:0-3-8,0-3-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.86	Vert(LL)	0.27 8-11 >457 240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.22 8-11 >554 180		
BCLL	10.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.02 7 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP				Weight: 45 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-4-13 oc bracing.

REACTIONS.

(size) 2=0-7-10, 7=0-7-10
Max Horz 2=163(LC 8)
Max Uplift 2=613(LC 8), 7=771(LC 8)
Max Grav 2=716(LC 2), 7=1069(LC 2)

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

TOP CHORD 2-3=-1249/857
BOT CHORD 2-8=-864/1147, 7-8=-892/1194
WEBS 3-8=-450/763, 3-7=-1464/1093

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 613 lb uplift at joint 2 and 771 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 247 lb down and 356 lb up at 7-0-0, and 129 lb down and 176 lb up at 9-0-12 on top chord, and 448 lb down and 287 lb up at 7-0-0, and 86 lb down at 9-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-5=-20, 6-9=-20
Concentrated Loads (lb)
Vert: 8=-391(F) 3=-200(F) 12=-129(F) 13=-64(F)



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235233
ASPEN	NH9	Half Hip	8	1		

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:12 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-fNjLLoteqJXxYVYPMOAKatT?w0JvteZ9yMvJ2FyhvL



5x6 = 2x4 || Scale = 1:22.9

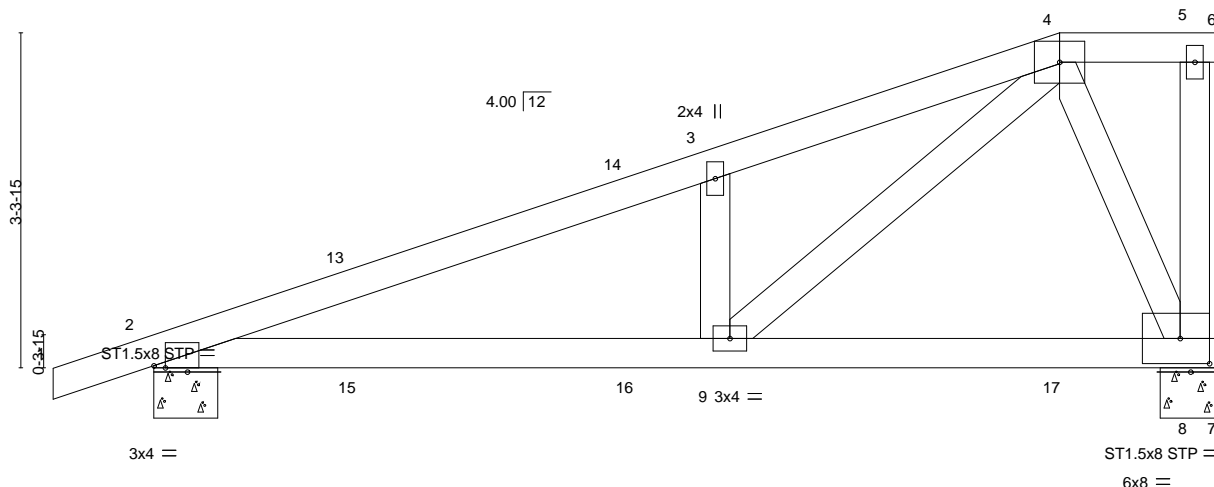


Plate Offsets (X,Y)--	[2:0-1-6,Edge], [8:0-3-8,0-3-0]
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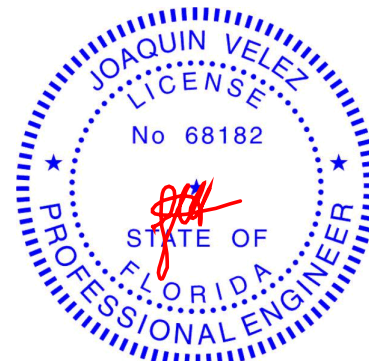
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	0.13	9-12	>935	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	0.12	9-12	>999	180	244/190
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	-0.02	8	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-AS						
								Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-7-10, 8=0-7-10
Max Horz	2=201(LC 10)
Max Uplift	2=469(LC 10), 8=441(LC 10)
Max Grav	2=492(LC 2), 8=459(LC 18)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-775/1871, 3-4=-794/2071
BOT CHORD	2-9=-2012/718, 8-9=-424/154
WEBS	3-9=-323/604, 4-9=-2124/754, 4-8=-381/1047

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 4-9-1, Exterior(2R) 4-9-1 to 9-0-0, Exterior(2E) 9-0-0 to 10-7-10 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 469 lb uplift at joint 2 and 441 lb uplift at joint 8.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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September 2,2021

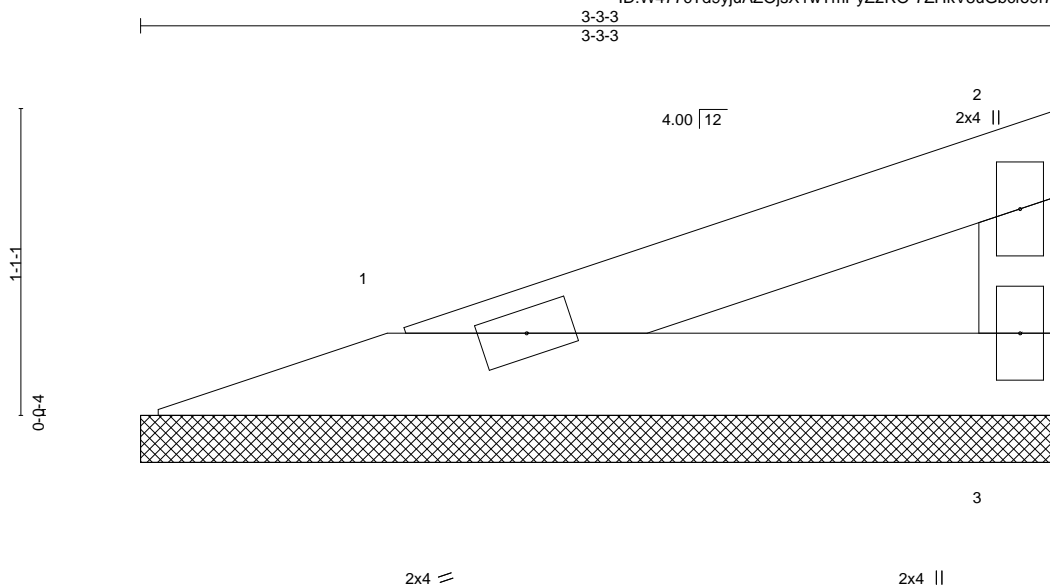
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235234
ASPEN	VT1	Valley	2	1	Job Reference (optional)	

Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:13 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-7ZHkV8uGbcfo9f7cw6hZ750JwQnNclHIA0etaihhvK



Scale = 1:8.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.12	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.09	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P						
								Weight: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-3-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

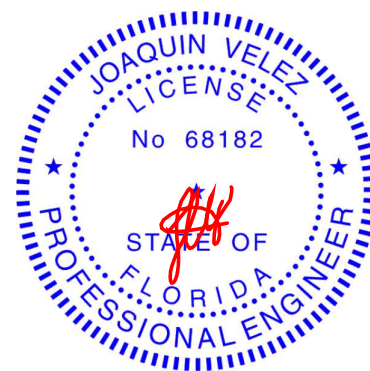
REACTIONS.

(size) 1=3-3-3, 3=3-3-3
Max Horz 1=42(LC 10)
Max Uplift 1=35(LC 10), 3=49(LC 10)
Max Grav 1=97(LC 15), 3=98(LC 15)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 35 lb uplift at joint 1 and 49 lb uplift at joint 3.



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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	VT2	Valley	2	1	T25235235
Job Reference (optional)					

Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:14 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-bmr6ITvuMwnfnpioUpCoglYK9q4yLIXRPgOQ78yhvhvJ

1-10-12	2-0-8	8-1-8	14-2-8	14-4-4	16-3-0
1-10-12	0-1-12	6-1-0	6-1-0	0-1-12	1-10-12

Scale = 1:25.6

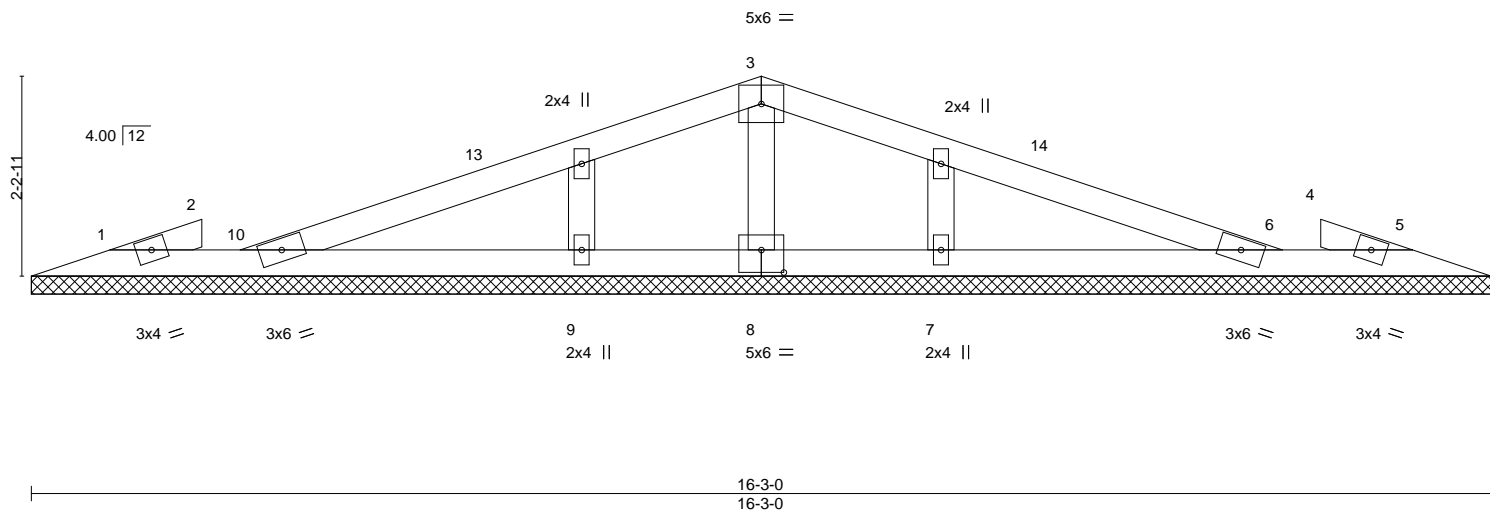


Plate Offsets (X,Y)--		[8:0-3-0,0-3-0]		16-3-0		16-3-0	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.00	4	n/r
TCDL 10.0	Lumber DOL	1.25	BC 0.26	Vert(CT)	0.00	5	n/r
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.01	6	n/a
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-R				
				PLATES	GRIP		
				MT20	244/190		
				Weight: 51 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-5-0 oc bracing.

REACTIONS.

All bearings 16-3-0.

(lb) - Max Horz 1=-57(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 10=-346(LC 10), 6=-346(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 9, 7 except 10=476(LC 1), 6=476(LC 1)

FORCES.

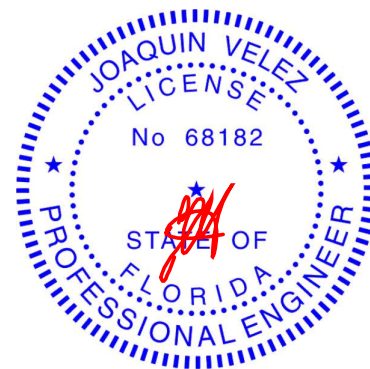
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-10=-601/1045, 3-6=-601/1045

BOT CHORD 9-10=-827/518, 7-9=-827/518, 6-7=-827/518

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-10-13 to 1-10-12, Exterior(2N) 2-4-3 to 5-1-8, Corner(3R) 5-1-8 to 11-1-8, Exterior(2N) 11-1-8 to 13-10-13, Corner(3E) 14-4-4 to 15-4-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 10=346, 6=346.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	VT3	Valley	2	1	T25235236

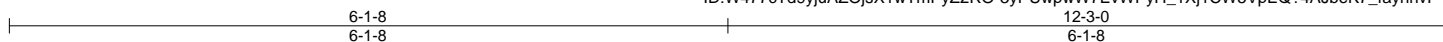
Builders FirstSource (Plant City, FL),

Plant City, FL - 33567,

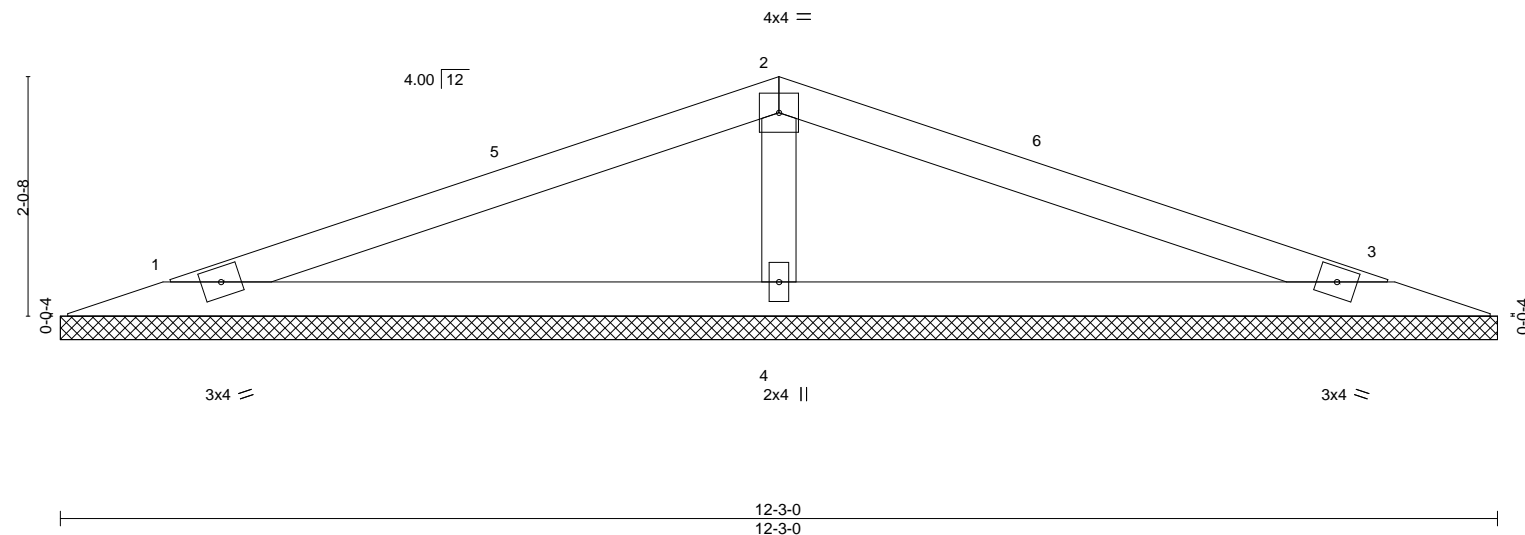
8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:15 2021 Page 1

ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-3yPUwpwW7EvWPyH_1Xj1CW5VpEQ?4AJbeK7_fayhhvl

Job Reference (optional)



Scale = 1:19.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.74	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-P						Weight: 36 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

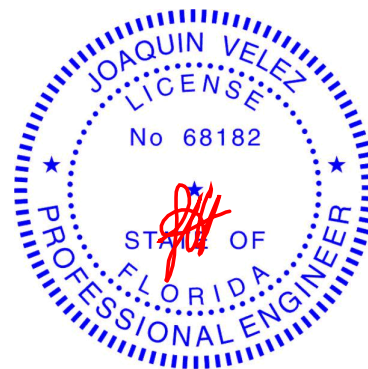
(size) 1=12-3-0, 3=12-3-0, 4=12-3-0
Max Horz 1=44(LC 8)
Max Uplift 1=119(LC 10), 3=119(LC 10), 4=163(LC 10)
Max Grav 1=209(LC 15), 3=213(LC 16), 4=482(LC 17)

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

WEBS 2-4=-300/533

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-11-5, Exterior(2R) 3-11-5 to 8-3-11, Exterior(2E) 8-3-11 to 11-3-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=119, 3=119, 4=163.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



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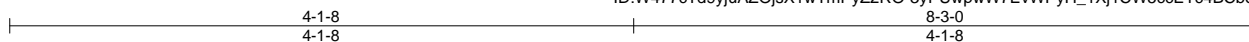
Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY
ASPEN	VT4	Valley	2	1	T25235237
Job Reference (optional)					

Builders FirstSource (Plant City, FL),

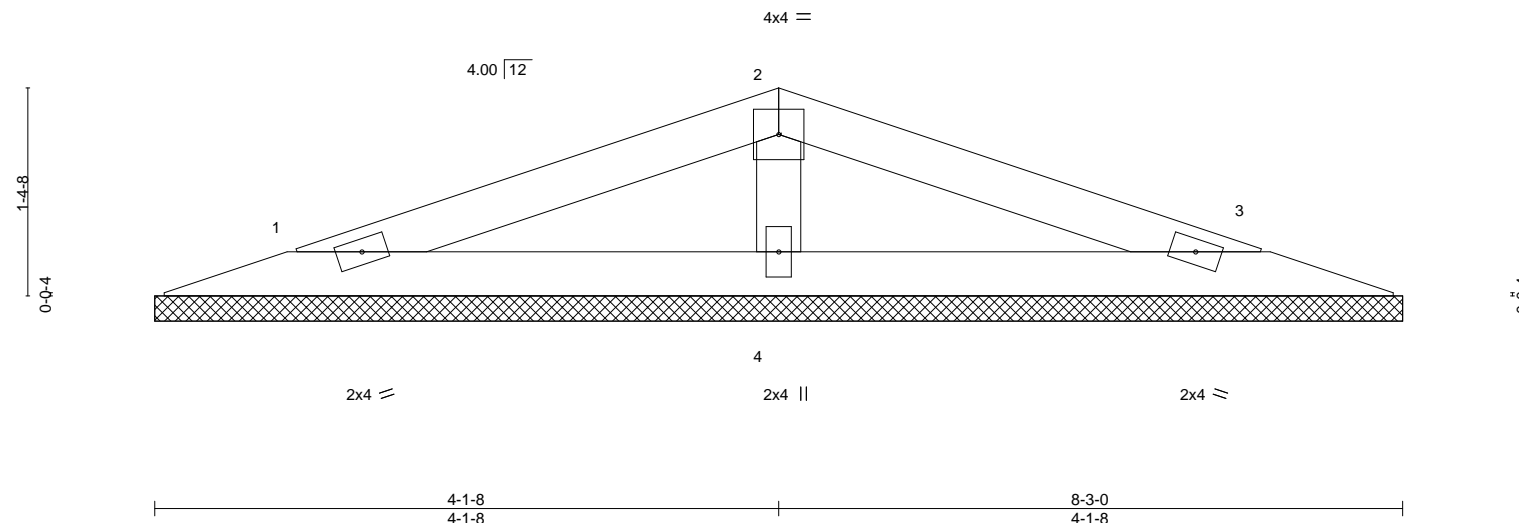
Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:15 2021 Page 1

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Scale = 1:15.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL	1.25	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCCL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	n/a	-	n/a		
BCCL 10.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-P					Weight: 23 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

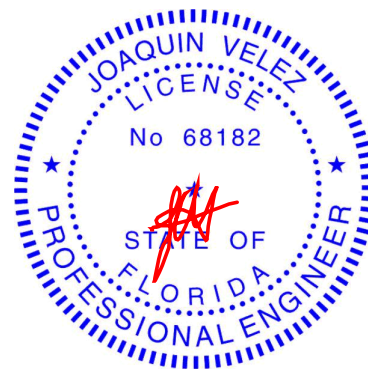
(size) 1=8-3-0, 3=8-3-0, 4=8-3-0
Max Horz 1=-27(LC 8)
Max Uplift 1=-73(LC 10), 3=-73(LC 10), 4=-100(LC 10)
Max Grav 1=128(LC 15), 3=131(LC 16), 4=296(LC 17)

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

WEBS 2-4=-192/341

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3 except (jt=lb) 4=100.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

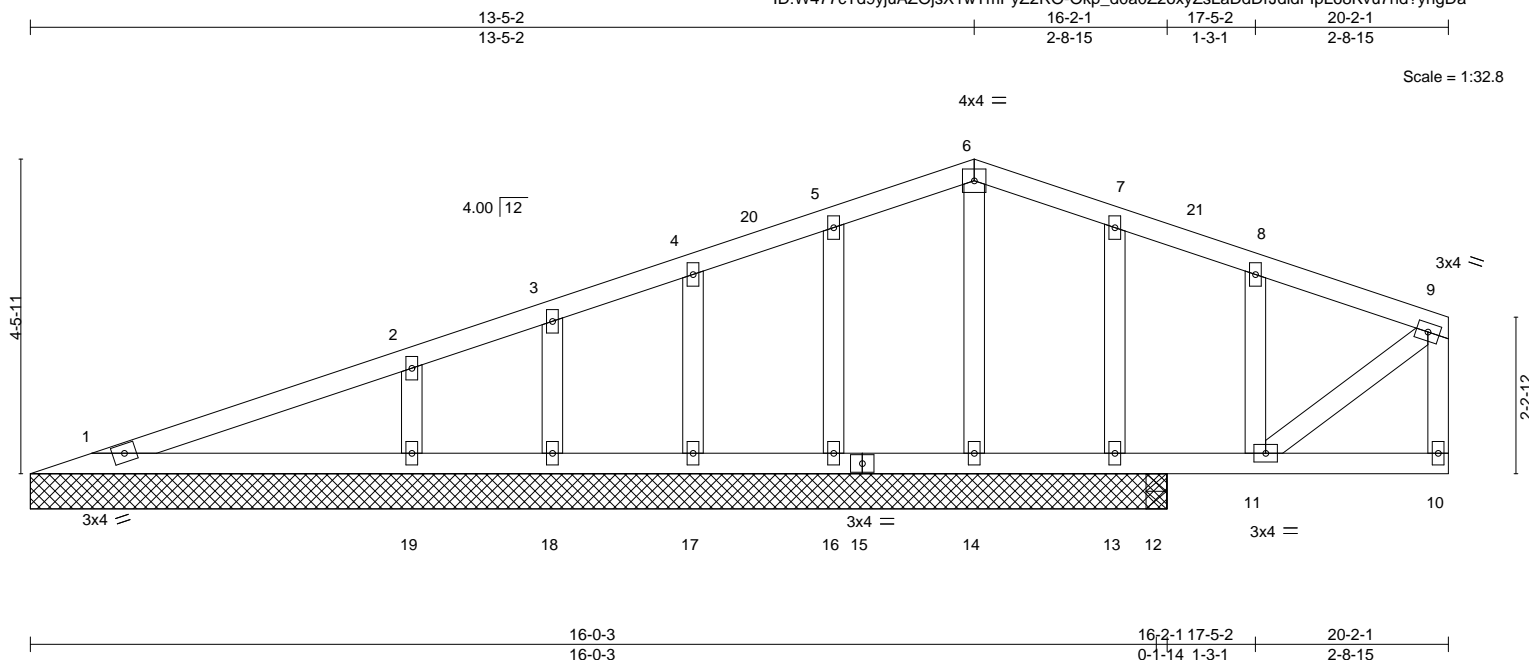


6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235238
ASPEN	VT5	Valley	2	1	Job Reference (optional)	

Builders FirstSource, Plant City, Florida

8.430 s Mar 22 2021 MiTek Industries, Inc. Thu Sep 2 13:32:09 2021 Page 1
ID:W477cTd9yjuAZOjsX1wTmPyZ2RO-Okp_d0a0Z2oxyZsLaDdDrJldFpL68Kvu7nd?yhGDa



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.01 1-19 >999 240	MT20		244/190	
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.03 1-19 >999 180				
BCLL	10.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00 12 n/a n/a				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-S							
								Weight: 95 lb		FT = 20%	

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

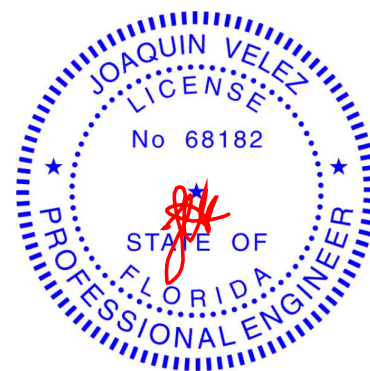
BRACING-
TOP CHORD Structural wood sheathing directly applied or 9-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
10-0-0 oc bracing: 10-11.

REACTIONS. All bearings 16-2-1 except (jt=length) 12=0-3-8.
(lb) - Max Horz 1=113(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 16, 18 except 17=102(LC 10), 19=210(LC 10), 13=131(LC 16), 12=305(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 14, 16, 17, 18, 13 except 19=424(LC 15), 12=612(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=341/212
WEBS 5-16=131/274, 4-17=133/258, 2-19=269/502, 7-13=211/367

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCDL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Corner(3E) 0-10-13 to 3-10-13, Exterior(2N) 3-10-13 to 10-5-2, Corner(3R) 10-5-2 to 16-5-2, Exterior(2N) 16-5-2 to 17-0-5, Corner(3E) 17-0-5 to 20-0-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 14, 16, 18 except (jt=lb) 17=102, 19=210, 13=131, 12=305.

LOAD CASE(S) Standard



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Aspen_EMERY	T25235239
ASPEN	VT6	Valley	2	1		

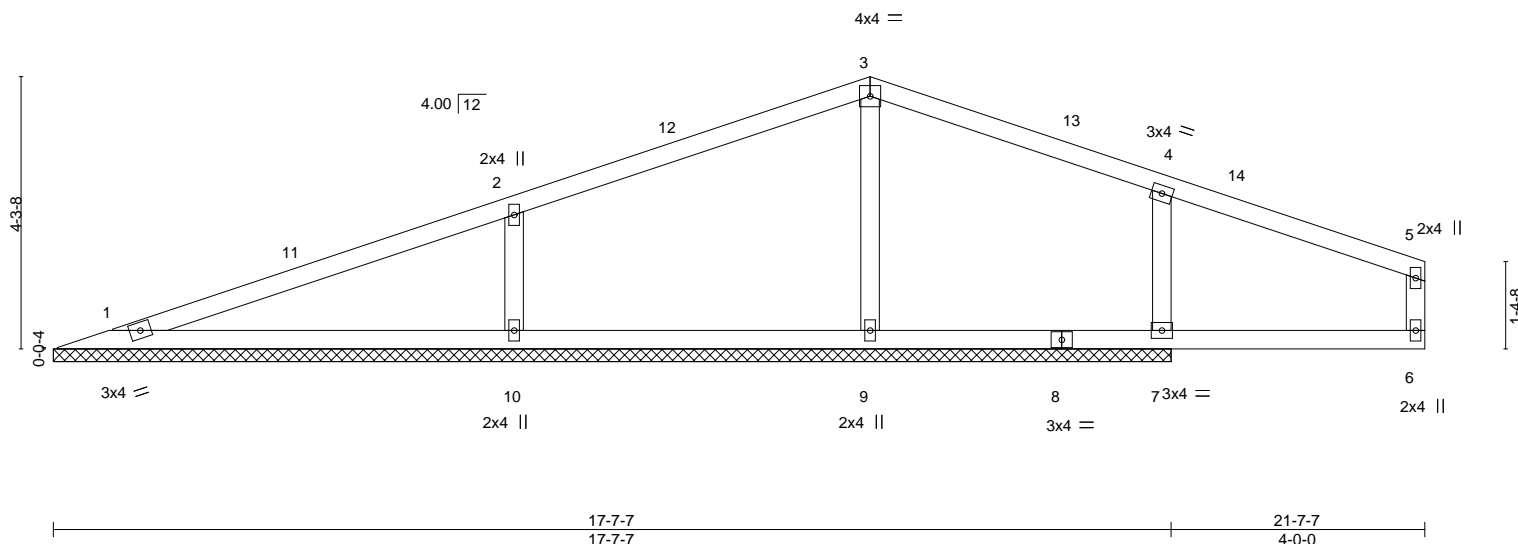
Builders FirstSource (Plant City, FL), Plant City, FL - 33567,

8.430 s Aug 16 2021 MiTek Industries, Inc. Thu Sep 2 10:37:17 2021 Page 1

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Scale = 1:36.3



LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCCL 20.0	Plate Grip DOL	1.25	TC 0.70	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.79	Vert(CT)	n/a	-	n/a	999	244/190
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	-0.00	7	n/a	n/a	
BCDL 10.0	Code FBC2020/TP12014		Matrix-SH						
								Weight: 77 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 6-7.

REACTIONS.

All bearings 17-7-7.

(lb) - Max Horz 1=93(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 9 except 7=309(LC 10), 10=334(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 1 except 7=610(LC 16), 9=390(LC 15), 10=658(LC 15)

FORCES.

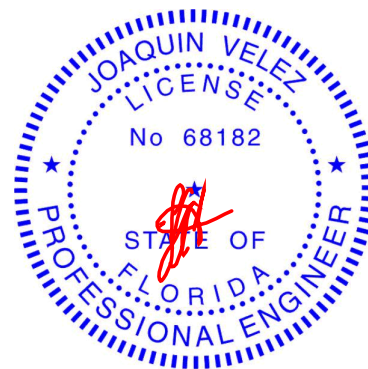
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 4-7=-360/467

WEBS 3-9=-302/334, 2-10=-422/525

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=165mph (3-second gust) Vasd=128mph; TCCL=4.2psf; BCDL=5.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) 0-11-5 to 3-11-5, Interior(1) 3-11-5 to 9-10-8, Exterior(2R) 9-10-8 to 15-10-8, Interior(1) 15-10-8 to 18-5-11, Exterior(2E) 18-5-11 to 21-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9 except (jt=lb) 7=309, 10=334.



Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

September 2,2021

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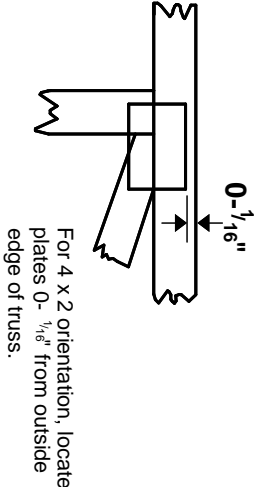
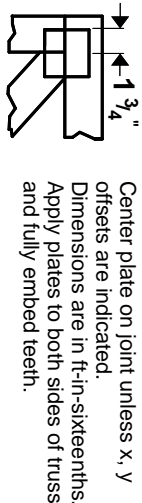
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION



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

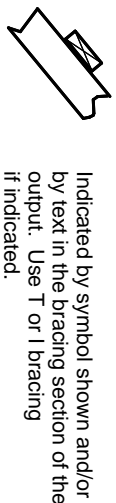
For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.

PLATE SIZE

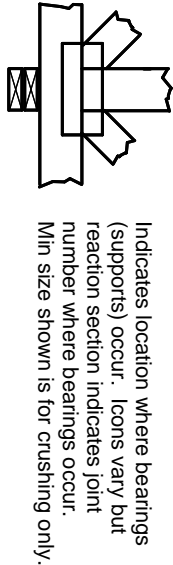
4 X 4

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

LATERAL BRACING LOCATION

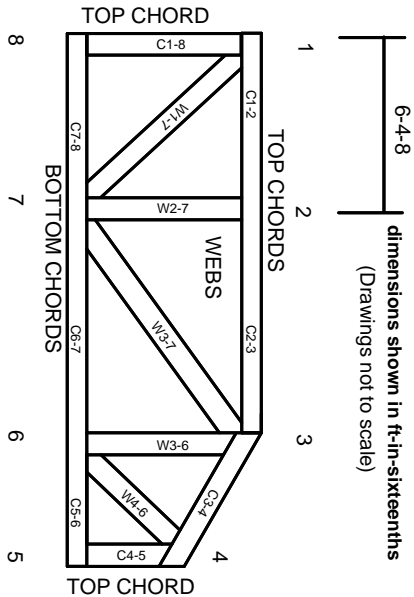


BEARING



Industry Standards:
ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:
ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. 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 environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.