



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

RE: 2369239 - RWK - HISCOCK GARAGE

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

Site Information:

Customer Info: RWK Enterprises Project Name: Hiscock Garage Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 101 Ginne Springs Rd., N/A
City: Gilchrist Cty State: FL

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

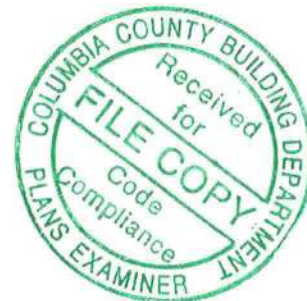
Name: License #:
Address:
City: State:

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

Design Code: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: N/A psf

This package includes 2 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
1	T20682586	T01	7/9/20
2	T20682587	T01G	7/9/20



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-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin

My license renewal date for the state of Florida is February 28, 2021.

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:

July 9, 2020

Velez, Joaquin

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Job 2369239	Truss T01	Truss Type ATTIC	Qty 17	Ply 1	RWK - HISCOCK GARAGE	T20682586
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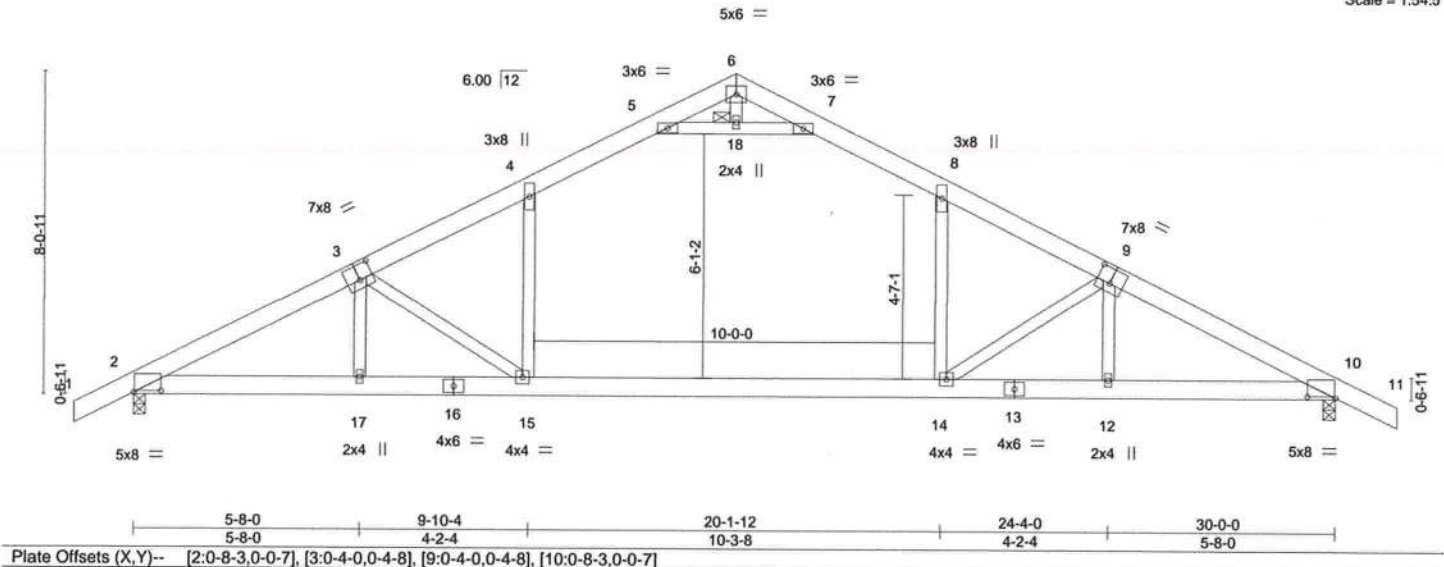
Builders FirstSource, Jacksonville, FL - 32244,

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-1-6-0	5-8-0	9-10-4	13-3-11	15-0-0	16-8-5	20-1-12	24-4-0	30-0-0	31-6-0
1-6-0	5-8-0	4-2-4	3-5-7	1-8-5	1-8-5	3-5-7	4-2-4	5-8-0	1-6-0

Scale = 1:54.5



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	0.48	Vert(LL)	-0.31	14-15	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL 1.25		BC	0.58	Vert(CT)	-0.62	14-15	>581	180			
BCLL	0.0 *	Rep Stress Incr YES		WB	0.66	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code FBC2017/TPI2014		Matrix-MS		Attic	-0.15	14-15	808	360	Weight: 199 lb		FT = 20%

LUMBER-
TOP CHORD 2x6 SP No. 2 *Except*
 3-6,6-9: 2x6 SP M 26
BOT CHORD 2x6 SP No. 2 *Except*
 13-16: 2x6 SP M 26
WEBS 2x4 SP No. 3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-15 oc bracing.
JOINTS 1 Brace at Jt(s): 18

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=173(LC 13)
 Max Uplift 2=323(LC 12), 10=323(LC 13)
 Max Grav 2=1462(LC 2), 10=1462(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=2682/786, 3-4=2412/593, 4-5=1901/603, 5-6=100/845, 6-7=100/845,
 7-8=1901/603, 8-9=2412/593, 9-10=2682/786
BOT CHORD 2-17=565/2390, 15-17=565/2385, 14-15=251/1986, 12-14=583/2385, 10-12=582/2390
WEBS 5-18=2998/803, 7-18=2998/803, 4-15=77/903, 8-14=77/903, 3-15=684/426,
 9-14=684/426, 6-18=45/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-18, 7-18; Wall dead load (5.0psf) on member(s). 4-15, 8-14
 - Bottom chord live load (30.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 323 lb uplift at joint 2 and 323 lb uplift at joint 10.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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 Date:

July 9,2020

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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 Tampa, FL 33610

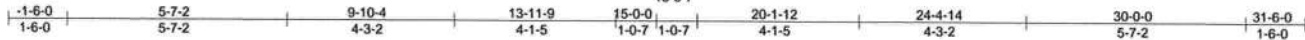
Job	Truss	Truss Type	Qty	Ply	RWK - HISCOCK GARAGE	T20682587
2369239	T01G	GABLE	2	1		

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Job Reference (optional)



Scale = 1:55.5

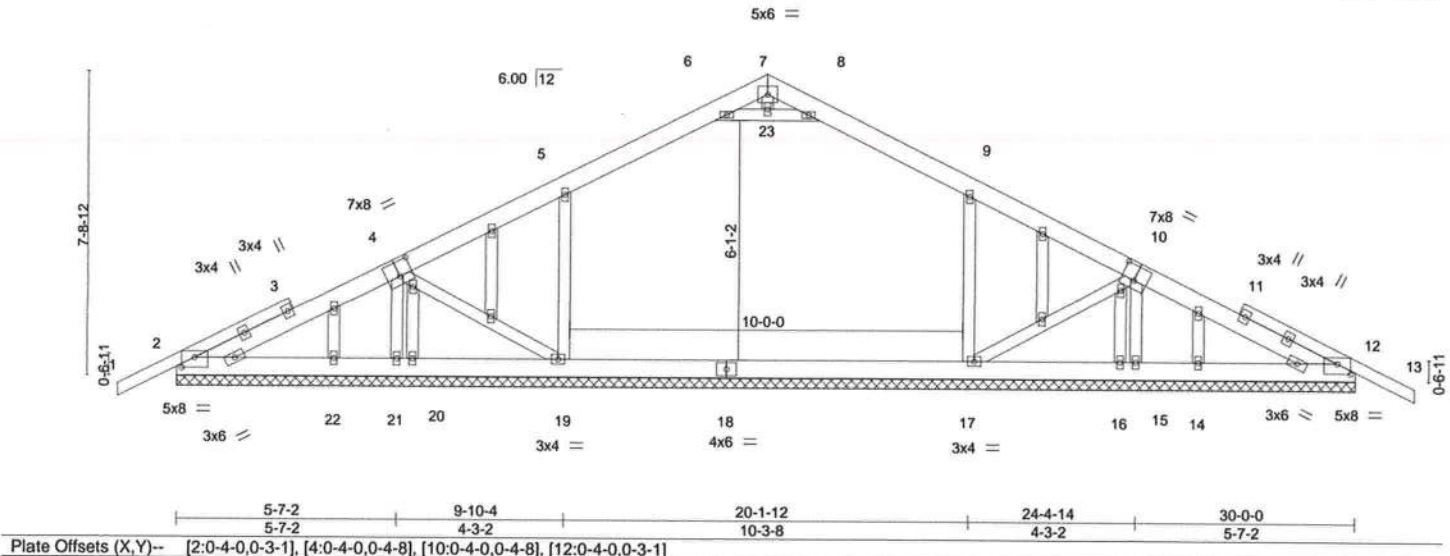


Plate Offsets (X,Y)--		[2:0-4-0,0-3-1], [4:0-4-0,0-4-8], [10:0-4-0,0-4-8], [12:0-4-0,0-3-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.16	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.45	Vert(LL) 0.00 12 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Vert(CT) 0.00 12-13 n/r 120
BCDL 10.0	Code FBC2017/TPI2014	Matrix-S	Horz(CT) 0.01 12 n/a n/a
			PLATES MT20
			GRIP 244/190
			Weight: 214 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-3,11-13: 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 30-0-0.
(lb) - Max Horz 2=165(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) except 2=109(LC 12), 19=136(LC 12), 17=156(LC 13), 21=175(LC 12), 15=130(LC 13), 16=564(LC 18), 20=564(LC 18), 12=133(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 22 except 2=336(LC 1), 19=650(LC 26), 17=650(LC 27), 21=725(LC 20), 15=724(LC 2), 12=336(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-266/110, 4-5=-446/151, 5-6=-463/276, 8-9=-463/276, 9-10=-446/150, 10-12=-266/65
BOT CHORD 17-19=0/367
WEBS 5-19=-331/183, 9-17=-331/182, 4-21=-457/248, 10-15=-457/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) 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.
- 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.
- Ceiling dead load (5.0 psf) on member(s). 5-6, 8-9, 6-23, 8-23; Wall dead load (5.0psf) on member(s). 5-19, 9-17
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 2, 136 lb uplift at joint 19, 156 lb uplift at joint 17, 175 lb uplift at joint 21, 130 lb uplift at joint 15, 564 lb uplift at joint 16, 564 lb uplift at joint 20 and 133 lb uplift at joint 12.
- ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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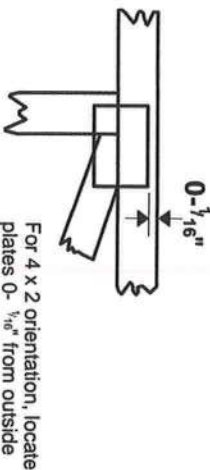
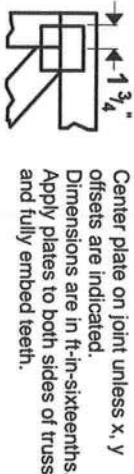
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **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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Symbols

PLATE LOCATION AND ORIENTATION



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

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



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

BEARING



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

Industry Standards:
ANSI/TP1:

National Design Specification for Metal Plate Connected Wood Truss Construction.

DSB-89:

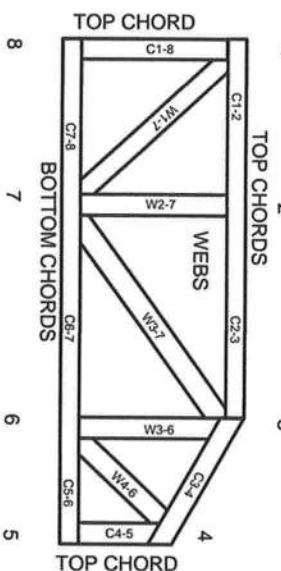
Design Standard for Bracing.

BCSI:

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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MiTek Engineering Reference Sheet: MLI-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 ware 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.