

Trenco 818 Soundside Rd Edenton, NC 27932

Re: GHAZAB

Garman Homes - Azalea A & B Floor

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I54287093 thru I54287103

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

North Carolina COA: C-0844



September 20,2022

Gilbert, Eric

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

Job Truss Truss Type Qty Ply Garman Homes - Azalea A & B Floor 154287093 **GHAZAB** A01 2 Common Supported Gable Job Reference (optional) Carolina Structural Systems, LLC, Ether, NC - 27247, Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:13 Page: 1 ID:C62DD1be73YP1J7KS27d0BzFmPN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 17-0-12 34-1-8 17-0-12 17-0-12 0-10-8 4x5= 12 11 13 10⁵⁰ 51₁₄ 3x4 ~ 3x4 12 61 9 15 8 16 17 6 18 5 19 49 4 ²⁰52 5x6 21 22 0-0-40 39 38 37 36 35 34 33 32 31 30 29 27 26 25 24 28 3x8 II 3x4= 4x5= 4x5= 3x8 i 34-1-8 Scale = 1:64.2 2-0-0 CSI DEFL I/defl L/d | PLATES GRIP Loading (psf) Spacing (loc)

LUMBER			TOP CHORD	1-2=0/23, 2-4=-	125/88, 4-5	5=-125/62,	6) Gabl	e studs	s space	ed at 2-0-0 oc.	
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 237 lb	FT = 20%
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	22	n/a	n/a		
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190

TOP CHORD

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

SLIDER Left 2x8 SP No.2 -- 1-6-0, Right 2x8 SP No.2

-- 1-6-0

BRACING TOP CHORD

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

1 Row at midpt 12-32, 11-33, 13-31

REACTIONS (size) 2=34-1-8, 22=34-1-8, 24=34-1-8, 25=34-1-8, 26=34-1-8, 27=34-1-8, 28=34-1-8, 30=34-1-8, 31=34-1-8,

> 32=34-1-8, 33=34-1-8, 34=34-1-8, 36=34-1-8, 37=34-1-8, 38=34-1-8, 39=34-1-8, 40=34-1-8, 41=34-1-8,

45=34-1-8

Max Horiz 2=-140 (LC 10), 41=-140 (LC 10) Max Uplift 24=-49 (LC 12), 25=-9 (LC 12),

26=-22 (LC 12), 27=-19 (LC 12), 28=-19 (LC 12), 30=-23 (LC 12), 31=-10 (LC 12), 33=-10 (LC 12), 34=-23 (LC 12), 36=-19 (LC 12),

37=-19 (LC 12), 38=-22 (LC 12), 39=-9 (LC 12), 40=-49 (LC 12) Max Grav 2=202 (LC 18), 22=198 (LC 1)

> 24=226 (LC 18), 25=140 (LC 1), 26=165 (LC 22), 27=159 (LC 1), 28=160 (LC 22), 30=160 (LC 1), 31=164 (LC 22), 32=150 (LC 12), 33=164 (LC 21), 34=160 (LC 1), 36=160 (LC 21), 37=159 (LC 1),

38=165 (LC 21), 39=140 (LC 1), 40=239 (LC 17), 41=202 (LC 18), 45=198 (LC 1)

(lb) - Maximum Compression/Maximum Tension

5-6=-117/94, 6-7=-110/137, 7-9=-103/177, 9-10=-98/218, 10-11=-113/260, 11-12=-125/294, 12-13=-125/296, 13-14=-113/262, 14-15=-98/219,

15-17=-84/179, 17-18=-77/139, 18-19=-83/96, 19-20=-92/64, 20-22=-76/40,

22-23=0/23 **BOT CHORD** 2-40=-26/83, 39-40=-26/83, 38-39=-26/83,

37-38=-26/83, 36-37=-26/83, 34-36=-26/83, 33-34=-26/83, 32-33=-26/83, 31-32=-26/83, 30-31=-26/83, 28-30=-26/83, 27-28=-26/83, 26-27=-26/83, 25-26=-26/83, 24-25=-26/83,

22-24=-26/83 WFBS

12-32=-171/34. 11-33=-124/108 10-34=-120/86, 9-36=-120/66, 7-37=-120/67, 6-38=-123/71, 5-39=-109/56, 4-40=-162/129, 13-31=-124/108, 14-30=-120/86,

15-28=-120/66, 17-27=-120/67, 18-26=-123/71, 19-25=-109/56, 20-24=-156/129

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft: L=34ft: eave=2ft: Cat. II: Exp B: Enclosed: MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-6-7, Exterior (2) 2-6-7 to 17-0-12, Corner (3) 17-0-12 to 20-5-11, Exterior (2) 20-5-11 to 35-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 33, 23 lb uplift at joint 34, 19 lb uplift at joint 36, 19 lb uplift at joint 37, 22 lb uplift at joint 38, 9 lb uplift at joint 39, 49 lb uplift at joint 40, 10 lb uplift at joint 31, 23 lb uplift at joint 30, 19 lb uplift at joint 28, 19 lb uplift at joint 27, 22 lb uplift at joint 26, 9 lb uplift at joint 25 and 49 lb uplift at joint 24.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 22.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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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Continued on page 2

FORCES

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

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

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



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	A01	Common Supported Gable	2	1	Job Reference (optional)	154287093

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:13 ID: C62DD1be73YP1J7KS27d0BzFmPN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

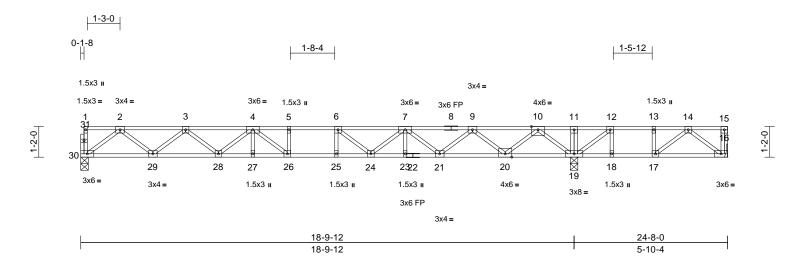
LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F201	Floor	3	1	Job Reference (optional)	154287094

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:15 ID:jeRy?oGxhKyL3VdOavcfmizFTyQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



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Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.25	25-26	>910	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.34	25-26	>661	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	19	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 126 lb	FT = 20%F, 11%E

LUMBER

2x4 SP No.2(flat) *Except* 8-15:2x4 SP DSS TOP CHORD

(flat)

BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 2-2-0 oc

BOT CHORD

REACTIONS (size) 16= Mechanical, 19=0-3-8,

30=0-3-8

Max Uplift 16=-226 (LC 3)

Max Grav 16=184 (LC 4), 19=1448 (LC 1),

30=732 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-30=-31/0, 15-16=-34/20, 1-2=-2/0,

2-3=-1540/0, 3-4=-2482/0, 4-5=-2930/0,

5-6=-2930/0, 6-7=-2647/0, 7-9=-1796/0, 9-10=-449/0, 10-11=0/1674, 11-12=0/1674, 12-13=-96/887, 13-14=-96/887, 14-15=0/0

BOT CHORD 29-30=0/913, 28-29=0/2140, 27-28=0/2822,

26-27=0/2822, 25-26=0/2930, 24-25=0/2930,

23-24=0/2358, 21-23=0/2358, 20-21=0/1245, 19-20=-495/0. 18-19=-887/96.

17-18=-887/96. 16-17=-321/172

WEBS 11-19=-2/136, 2-30=-1144/0, 10-19=-1487/0,

2-29=0/816, 10-20=0/1095, 3-29=-780/0, 9-20=-1049/0, 3-28=0/445, 9-21=0/728, 4-28=-435/0, 4-27=-50/80, 7-21=-727/0,

7-23=-10/29, 4-26=-180/448, 7-24=0/412, 5-26=-153/0, 14-16=-215/402,

12-19=-1205/0, 14-17=-722/0, 12-18=0/221,

13-17=0/332, 6-24=-521/0, 6-25=-96/147

NOTES

Unbalanced floor live loads have been considered for this design.

- All plates are 3x3 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 226 lb uplift at ioint 16.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



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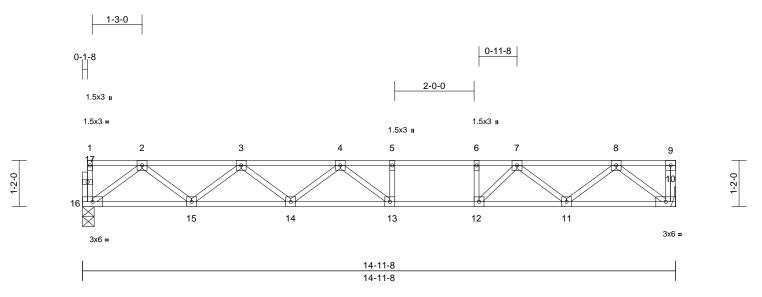
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F202	Floor	10	1	Job Reference (optional)	I54287095

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:16



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Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.20	13-14	>882	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.27	13-14	>644	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.04	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 75 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 1-4-12 oc

bracing.

REACTIONS (size) 10= Mechanical, 16=0-3-8 Max Grav 10=647 (LC 1), 16=642 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-30/0. 9-10=-30/0. 1-2=-2/0.

2-3=-1311/0, 3-4=-2062/0, 4-5=-2170/0, 5-6=-2170/0, 6-7=-2170/0, 7-8=-1294/0,

8-9=0/0

BOT CHORD 15-16=0/795, 14-15=0/1810, 13-14=0/2252,

12-13=0/2170, 11-12=0/1804, 10-11=0/799

WEBS 8-10=-1002/0, 2-16=-995/0, 8-11=0/645, 2-15=0/671, 7-11=-663/0, 3-15=-649/0, 3-14=0/328, 4-14=-248/0, 5-13=-116/68,

4-13=-251/221, 6-12=-345/0, 7-12=0/661

NOTES

- 1) Unbalanced floor live loads have been considered for
- All plates are 3x3 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



Page: 1

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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

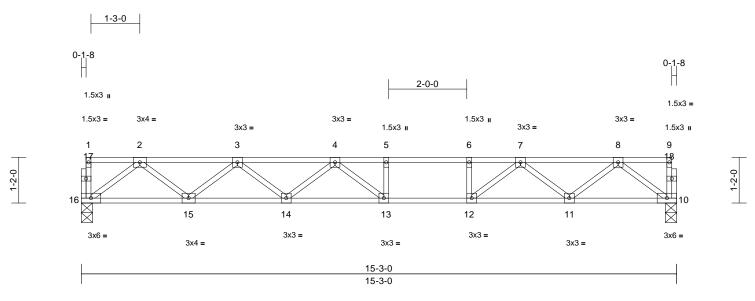
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F203	Floor	2	1	Job Reference (optional)	154287096

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Page: 1



Scale = 1:29.5

Loading	(psf)	Spacing	1-7-3	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.78	Vert(LL)	-0.19	13-14	>924	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.74	Vert(CT)	-0.27	13-14	>676	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 76 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 10=0-3-8, 16=0-3-8

Max Grav 10=655 (LC 1), 16=655 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-30/0. 9-10=-27/0. 1-2=-2/0.

2-3=-1343/0, 3-4=-2124/0, 4-5=-2274/0, 5-6=-2274/0, 6-7=-2274/0, 7-8=-1327/0,

8-9=-2/0

BOT CHORD 15-16=0/812, 14-15=0/1857, 13-14=0/2328,

12-13=0/2274, 11-12=0/1846, 10-11=0/815

WEBS 8-10=-1021/0, 2-16=-1016/0, 8-11=0/666, 2-15=0/692, 7-11=-676/0, 3-15=-670/0,

7-12=0/676, 3-14=0/347, 4-14=-266/0,

4-13=-231/250, 5-13=-127/50, 6-12=-292/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 MT20 unless otherwise indicated.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

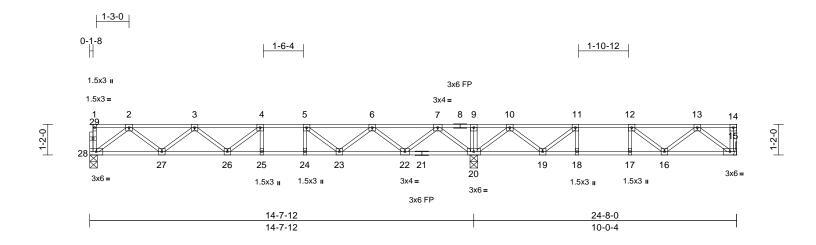


September 20,2022



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F204	Floor	8	1	Job Reference (optional)	154287097

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:17 ID:8G6VEXwJP07SQs5vEiyOWTzFTpr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.9

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.11	25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.15	25-26	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 123 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.2(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size) 15= Mechanical, 20=0-3-8,

28=0-3-8

15=386 (LC 4), 20=1261 (LC 1), Max Grav

28=576 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-28=-34/0, 14-15=-24/3, 1-2=-2/0, 2-3=-1150/0, 3-4=-1715/0, 4-5=-1813/0,

5-6=-1483/0, 6-7=-631/29, 7-9=0/1146,

9-10=0/1146. 10-11=-432/419.

11-12=-787/155, 12-13=-652/16, 13-14=0/0 BOT CHORD 27-28=0/706, 26-27=0/1570, 25-26=0/1813,

24-25=0/1813, 23-24=0/1813, 22-23=0/1180,

20-22=-266/59, 19-20=-624/111, 18-19=-155/787, 17-18=-155/787,

16-17=-155/787, 15-16=0/467 WEBS 9-20=-96/0, 2-28=-883/0, 7-20=-1103/0,

2-27=0/578, 7-22=0/784, 3-27=-547/0, 6-22=-751/0, 3-26=0/215, 6-23=0/438, 4-26=-225/93, 5-23=-524/0, 4-25=-149/49, 5-24=-29/169, 13-15=-586/0, 10-20=-787/0,

13-16=-63/241, 10-19=0/528

12-16=-172/179, 11-19=-626/0, 11-18=0/177,

12-17=-153/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.

- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 20,2022

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

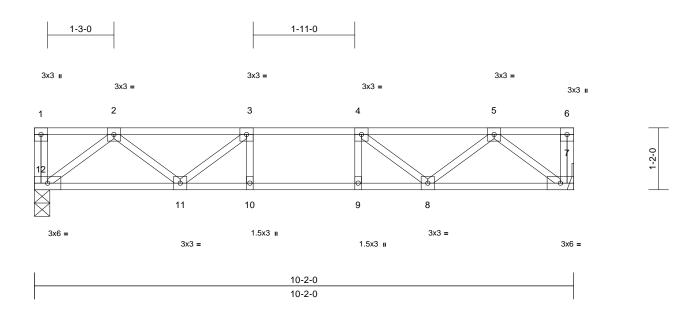
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F205	Floor	1	1	Job Reference (optional)	154287098

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:17 ID: uVdMQTC4AfKi4vjr7nVTiPydUh6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff



Scale = 1:21.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.32	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.57	Vert(CT)	-0.07	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD

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

bracing.

REACTIONS (size) 7= Mechanical, 12=0-3-8

Max Grav 7=545 (LC 1), 12=545 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-12=-37/0, 6-7=-37/0, 1-2=0/0, 2-3=-976/0,

3-4=-1282/0, 4-5=-976/0, 5-6=0/0

BOT CHORD 11-12=0/656, 10-11=0/1282, 9-10=0/1282,

8-9=0/1282, 7-8=0/656

WEBS 5-7=-823/0, 2-12=-823/0, 5-8=0/417,

2-11=0/417, 4-8=-428/0, 3-11=-428/0,

3-10=-74/100, 4-9=-74/100

NOTES

- Unbalanced floor live loads have been considered for this design.
- All plates are 3x3 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Page: 1

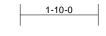
September 20,2022

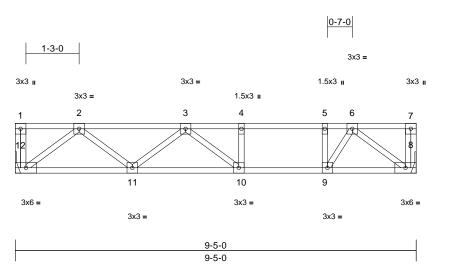


Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F206	Floor	3	1	Job Reference (optional)	154287099

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Page: 1





Scale = 1:27.1

Loading	(psf)	Spacing	1-7-3	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.75	Vert(LL)	-0.09	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.12	10-11	>924	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD

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

bracing.

REACTIONS (size) 8= Mechanical, 12= Mechanical

Max Grav 8=403 (LC 1), 12=403 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-12=-33/0, 7-8=-58/0, 1-2=0/0, 2-3=-716/0,

3-4=-765/0, 4-5=-765/0, 5-6=-765/0, 6-7=0/0

11-12=0/483, 10-11=0/887, 9-10=0/765, **BOT CHORD**

8-9=0/480

WEBS 6-8=-602/0, 2-12=-605/0, 2-11=0/303,

3-11=-223/0, 3-10=-193/65, 4-10=-47/54,

5-9=-388/0, 6-9=0/577

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- All plates are 3x3 MT20 unless otherwise indicated. Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015
- International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

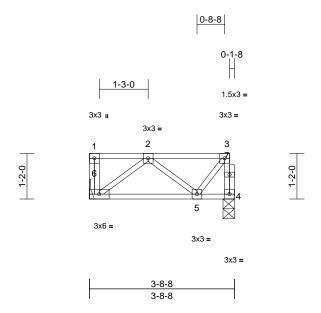


September 20,2022



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	F207	Floor	1	1	Job Reference (optional)	I54287100

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:17 ID:iTAgSxYU1aV30hG_80F72KzFTg?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:29.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	0.00	5-6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.01	5-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-P							Weight: 22 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) **WEBS** 2x4 SP No.2(flat) **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-8-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-3-8, 6= Mechanical

Max Grav 4=184 (LC 1), 6=190 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-6=-41/0, 3-4=-187/0, 1-2=0/0, 2-3=-89/0 TOP CHORD

BOT CHORD 5-6=0/183, 4-5=0/11

WEBS 2-6=-229/0, 2-5=-122/0, 3-5=0/130

NOTES

- 1) Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

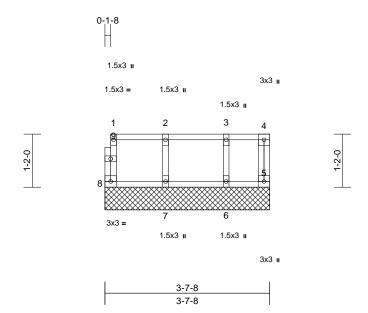


September 20,2022



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	K201	Floor Supported Gable	1	1	Job Reference (optional)	I54287101

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:18 Page: 1



Scale = 1:25.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 19 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3-7-8 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

bracing. **REACTIONS** (size)

5=41 (LC 1), 6=120 (LC 1), 7=152 Max Grav

(LC 1), 8=52 (LC 1)

5=3-7-8, 6=3-7-8, 7=3-7-8, 8=3-7-8

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-48/0, 4-5=-34/0, 1-2=-7/0, 2-3=-7/0,

3-4=-7/0

BOT CHORD 7-8=0/7, 6-7=0/7, 5-6=0/7

WEBS 2-7=-136/0, 3-6=-113/0

NOTES

- 1) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc. 3)
- 4) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 20,2022

818 Soundside Road Edenton, NC 27932

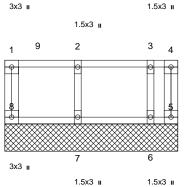
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	K202	Floor Supported Gable	1	1	Job Reference (optional)	154287102

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Page: 1







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	3-2-0

Scale = 1:21.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R							Weight: 18 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 5-4,5-4:2x4 SP WEBS

No.3(flat)

OTHERS 2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-0 oc purlins, except end verticals.

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

REACTIONS (size) 5=3-2-0, 6=3-2-0, 7=3-2-0, 8=3-2-0 Max Grav

5=60 (LC 1), 6=142 (LC 1), 7=198

(LC 1), 8=125 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-122/0, 4-5=-31/0, 1-2=-20/0, 2-3=-20/0,

3-4=-20/0

BOT CHORD 7-8=0/20, 6-7=0/20, 5-6=0/20 **WEBS** 2-7=-180/0, 3-6=-163/0

NOTES

- Gable requires continuous bottom chord bearing. 1)
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 5-8=-10, 1-4=-100

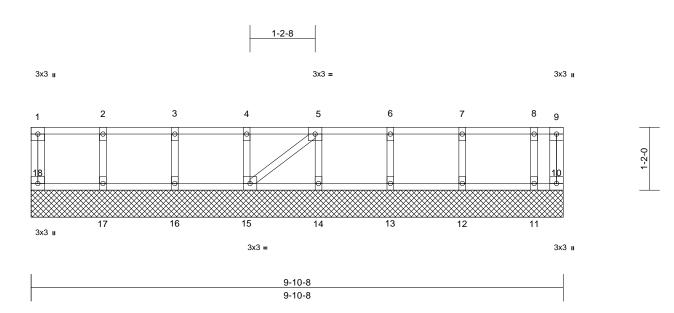
Concentrated Loads (lb) Vert: 3=-102, 9=-102



September 20,2022

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea A & B Floor	
GHAZAB	K203	Floor Supported Gable	1	1	Job Reference (optional)	154287103

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Tue Sep 20 08:41:18 ID:fm1Hsg5XDj3UmB_WBFq8fXzFTyf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:21.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	14	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 47 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

9-10-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

10=9-10-8, 11=9-10-8, 12=9-10-8, 13=9-10-8, 14=9-10-8, 15=9-10-8, 16=9-10-8, 17=9-10-8, 18=9-10-8

Max Uplift 10=-6 (LC 1)

Max Grav 10=-6 (LC 1), 11=121 (LC 1) 12=152 (LC 1), 13=145 (LC 1), 14=147 (LC 1), 15=147 (LC 1), 16=145 (LC 1), 17=156 (LC 1),

18=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-18=-47/0, 9-10=0/5, 1-2=0/0, 2-3=0/0, 3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0,

BOT CHORD 17-18=0/0, 16-17=0/0, 15-16=0/0, 14-15=0/0,

13-14=0/0, 12-13=0/0, 11-12=0/0, 10-11=0/0 WEBS 2-17=-142/0, 3-16=-132/0, 4-15=-134/0,

5-14=-134/0, 6-13=-132/0, 7-12=-138/0,

8-11=-110/0, 5-15=0/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint

- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



Page: 1

September 20,2022

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

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

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



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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

4.

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

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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