



Trenco 818 Soundside Rd Edenton, NC 27932

Re: GHAZABF

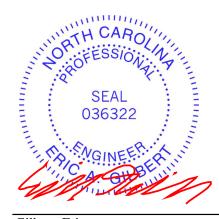
Garman Homes - Azalea B Floor

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: I56739107 thru I56739117

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 21,2023

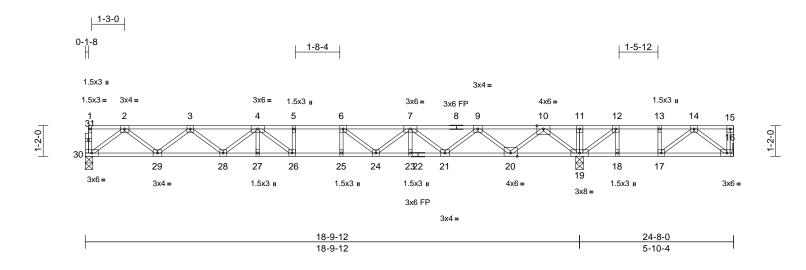
Gilbert, Eric

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 B Floor	
GHAZABF	F201	Floor	3	1	Job Reference (optional)	156739107

Run: 8 63 S. Nov 19 2022 Print: 8 630 S.Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 12:58:45

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Scale = 1:43.8

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	0.61	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

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

(flat)

BOT CHORD 2x4 SP No.2(flat) WEBS 2x4 SP No.3(flat) 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 2-2-0 oc

bracing.

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
- 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.
- 7) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



February 21,2023

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

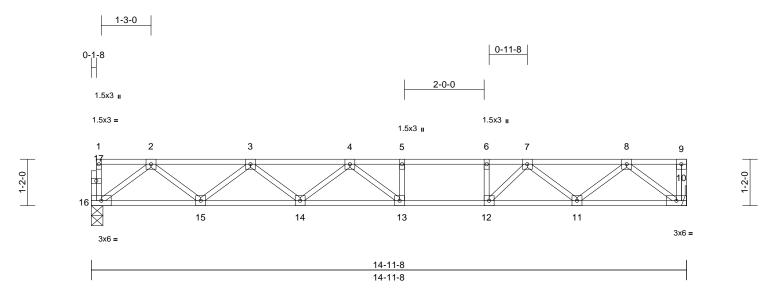
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 B Floor	
GHAZAB	F	F202	Floor	9	1	Job Reference (optional)	I56739108

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 12:58:47

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Scale = 1:29

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

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

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,

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 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

WEBS

- 1) 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.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



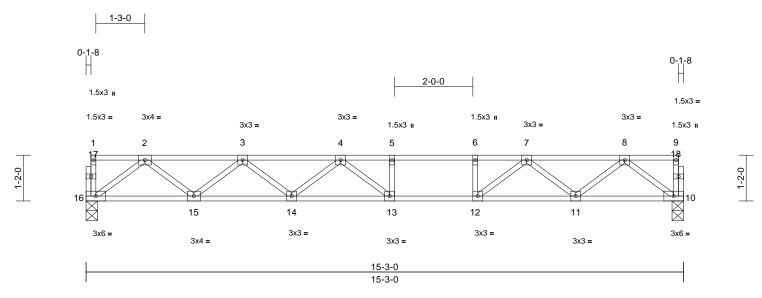
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Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F203	Floor	2	1	Job Reference (optional)	156739109

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

BRACING

BOT CHORD

TOP 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

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,

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



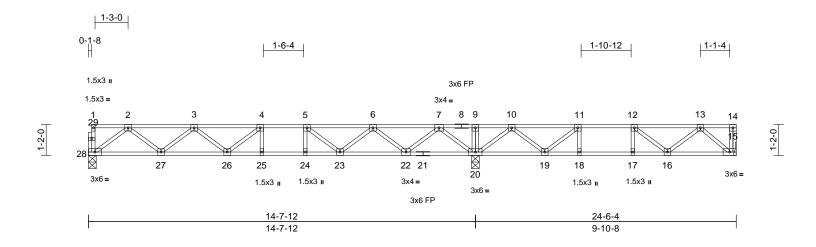
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F204	Floor	8	1	Job Reference (optional)	

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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	0.51	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

Max Grav 15=378 (LC 4), 20=1256 (LC 1),

28=576 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-28=-34/0, 14-15=-15/6, 1-2=-2/0, 2-3=-1150/0, 3-4=-1716/0, 4-5=-1814/0, 5-6=-1483/0, 6-7=-632/32, 7-9=0/1145,

9-10=0/1145, 10-11=-415/418,

11-12=-758/156, 12-13=-612/18, 13-14=0/0 **BOT CHORD** 27-28=0/706, 26-27=0/1570, 25-26=0/1814,

24-25=0/1814, 23-24=0/1814, 22-23=0/1181,

20-22=-266/60, 19-20=-622/102, 18-19=-156/758, 17-18=-156/758,

16-17=-156/758, 15-16=0/420

WEBS 9-20=-95/0, 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=-525/0, 4-25=-149/48, 5-24=-29/169, 10-20=-781/0, 10-19=0/520,

11-19=-613/0. 11-18=0/172. 13-15=-550/0. 13-16=-63/250, 12-16=-187/177,

12-17=-148/0

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



February 21,2023

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

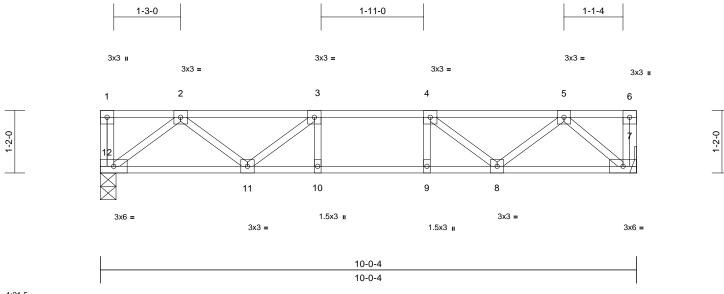
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F205	Floor	1	1	Job Reference (optional)	156739111

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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	0.33	Vert(LL)	-0.06	10-11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.07	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	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 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=537 (LC 1), 12=537 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-12=-36/0, 6-7=-27/0, 1-2=0/0, 2-3=-956/0,

3-4=-1244/0, 4-5=-920/0, 5-6=0/0

BOT CHORD $11\hbox{-}12\hbox{=}0/647,\, 10\hbox{-}11\hbox{=}0/1244,\, 9\hbox{-}10\hbox{=}0/1244,\,$ 8-9=0/1244, 7-8=0/589

WEBS 2-12=-811/0, 2-11=0/402, 3-11=-408/0,

3-10=-79/93, 5-7=-772/0, 5-8=0/431,

4-8=-442/0, 4-9=-66/106

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



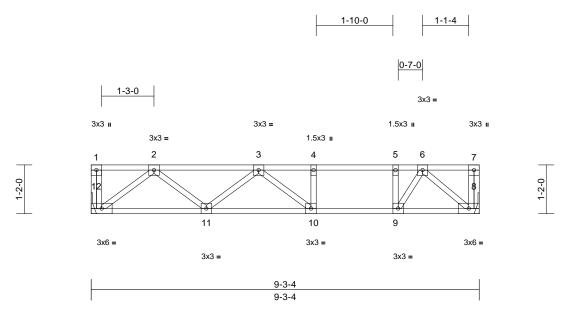
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F206	Floor	3	1	Job Reference (optional)	156739112

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Scale = 1:27.5

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	0.76	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	>896	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	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) 2x4 SP No.2(flat) **BOT CHORD** 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=397 (LC 1), 12=397 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-12=-34/0, 7-8=-56/0, 1-2=0/0, 2-3=-700/0, 3-4=-728/0, 4-5=-728/0, 5-6=-728/0, 6-7=0/0

BOT CHORD 11-12=0/474, 10-11=0/863, 9-10=0/728,

8-9=0/429

WEBS 2-12=-595/0, 2-11=0/294, 3-11=-211/0,

6-8=-563/0, 3-10=-205/52, 4-10=-42/58,

5-9=-397/0, 6-9=0/594

NOTES

- 1) 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



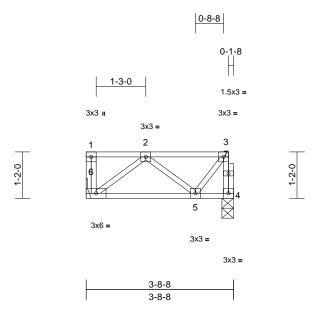
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F207	Floor	1	1	I567 Job Reference (optional)	39113

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 12:58:48 ID:iTAgSxYU1aV30hG_80F72KzFTg?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:29

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

TOP CHORD Structural wood sheathing directly applied or

3-8-8 oc purlins, except end verticals. **BOT CHORD** 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) (lb) - Maximum Compression/Maximum

Tension

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

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

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

NOTES

FORCES

- Refer to girder(s) for truss to truss connections. 1)
- 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

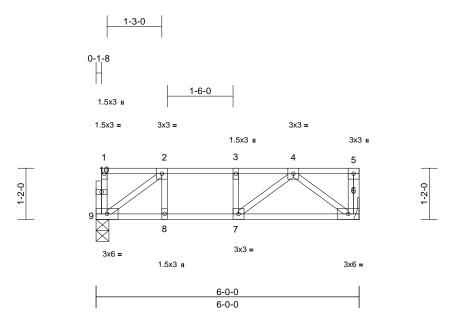


February 21,2023

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	F208	Floor	7	1	Job Reference (optional)	156739114

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 12:58:48 $ID:SB4PQE0W9N4AM4Tk7U_2pFzFTgg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f$ Page: 1



Scale = 1:26.3

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	0.25	Vert(LL)	-0.02	6-7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 32 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

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

bracing.

REACTIONS (size) 6= Mechanical, 9=0-3-8 Max Grav 6=253 (LC 1), 9=248 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-9=-37/20, 5-6=-41/0, 1-2=-2/1, 2-3=-322/0,

3-4=-322/0, 4-5=0/0

BOT CHORD 8-9=0/322, 7-8=0/322, 6-7=0/260

WEBS 4-6=-326/0, 2-9=-396/0, 4-7=0/128, 2-8=0/60,

3-7=-64/0

NOTES

TOP CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- 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.
- 4) 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.
- 5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



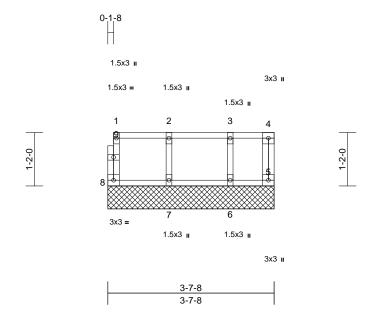
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	K201	Floor Supported Gable	1	1	Job Reference (optional)	156739115

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Page: 1



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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

TOP CHORD Structural wood sheathing directly applied or

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

REACTIONS (size) 5=3-7-8, 6=3-7-8, 7=3-7-8, 8=3-7-8

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

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

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

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

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

NOTES

- 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.
- 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



February 21,2023

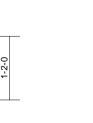


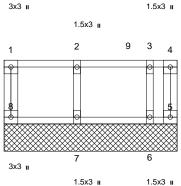
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Floor	
GHAZABF	K202	Floor Supported Gable	1	1	Job Reference (optional)	I56739116

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3x3 II







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3-2-0	
3-2-0	

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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	0.12	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	0.05	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) 2x4 SP No.2(flat) **BOT CHORD**

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

BOT CHORD bracing.

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

Max Uplift 5=-32 (LC 1)

5=11 (LC 2), 6=212 (LC 1), 7=180 Max Grav

(LC 1), 8=58 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-54/0, 4-5=0/41, 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=-164/0, 3-6=-212/0

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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint
- 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 91 lb down at 2-3-4 on top 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 + 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: 9=-91 (F)

February 21,2023

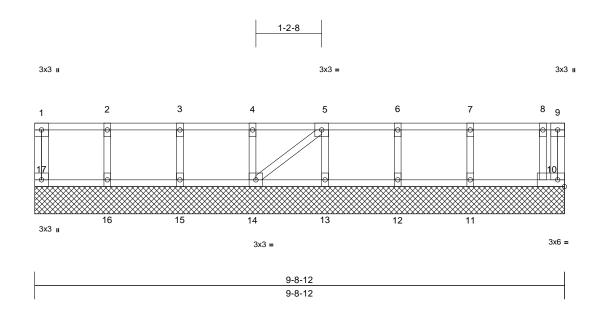


Ply Qty Job Truss Truss Type Garman Homes - Azalea B Floor 156739117 **GHAZABF** K203 Floor Supported Gable Job Reference (optional)

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 12:58:48 ID:fm1Hsg5XDj3UmB_WBFq8fXzFTyf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:21.2

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	10	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-S							Weight: 46 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

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

bracing.

REACTIONS (size)

10=9-8-12, 11=9-8-12, 12=9-8-12, 13=9-8-12, 14=9-8-12, 15=9-8-12,

16=9-8-12, 17=9-8-12

Max Grav 10=95 (LC 1), 11=155 (LC 1),

12=144 (LC 1), 13=131 (LC 1), 14=163 (LC 1), 15=145 (LC 1), 16=156 (LC 1), 17=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-17=-47/0, 9-10=0/25, 1-2=0/0, 2-3=0/0,

3-4=0/0, 4-5=0/0, 5-6=-21/0, 6-7=-21/0,

7-8=-21/0, 8-9=-2/0

BOT CHORD 16-17=0/0, 15-16=0/0, 14-15=0/0, 13-14=0/21, 12-13=0/21, 11-12=0/21,

WEBS 2-16=-142/0, 3-15=-132/0, 4-14=-134/0,

5-13=-118/0, 6-12=-132/0, 7-11=-139/0,

8-10=-115/0, 5-14=-26/0

NOTES

- 1) 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.
- 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.

6) 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



February 21,2023



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

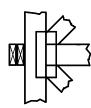
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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

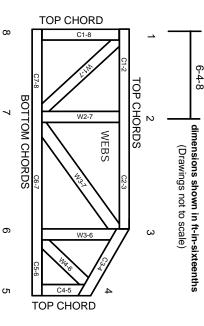
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

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.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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

4

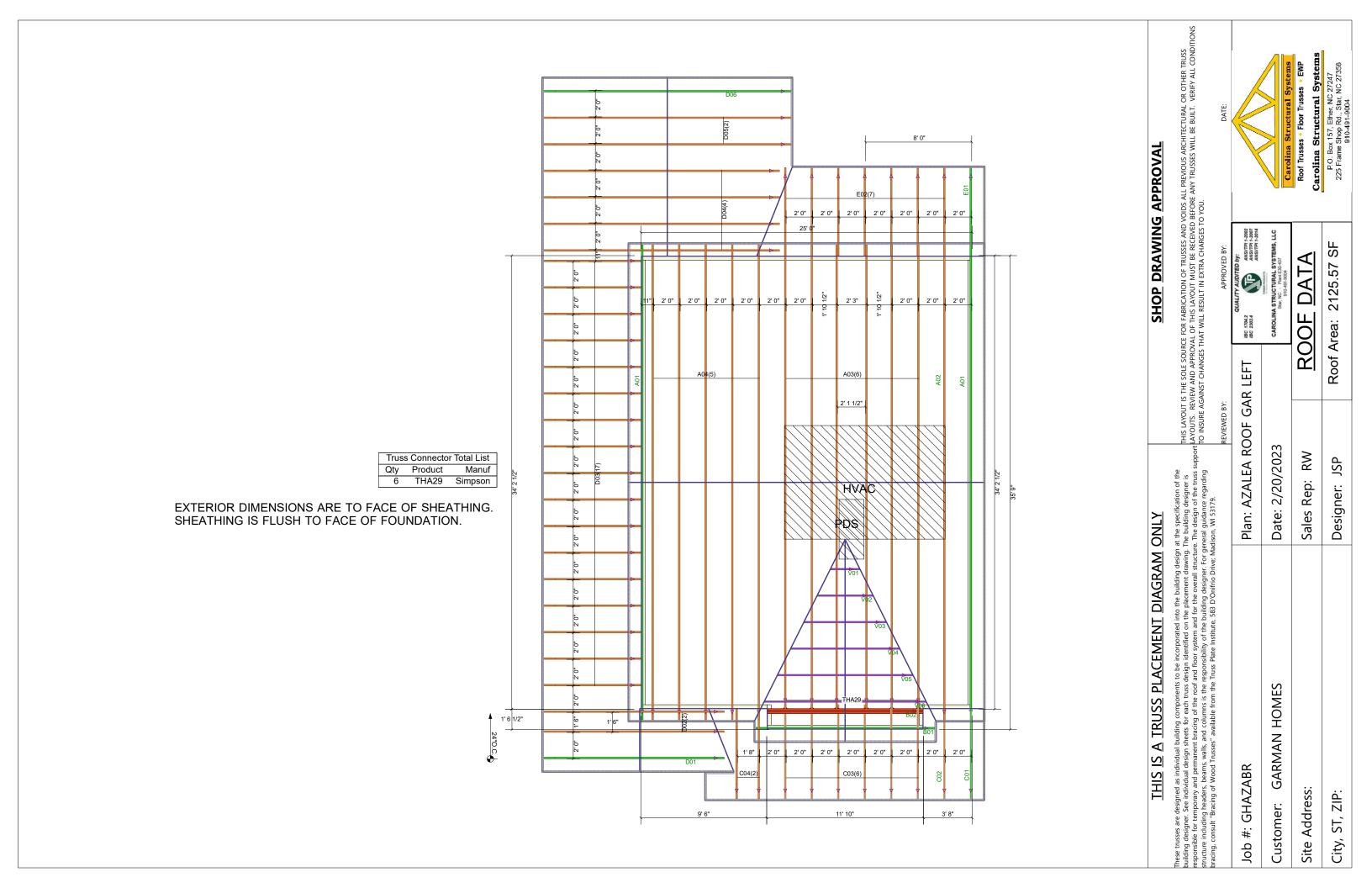
- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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

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





Trenco 818 Soundside Rd Edenton, NC 27932

Re: GHAZABR

Garman Homes - Azalea B Roof

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: I56739322 thru I56739345

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



February 21,2023

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 B Roof 156739322 **GHAZABR** A01 2 Common Supported Gable Job Reference (optional) Carolina Structural Systems (Star, NC)), Ether, NC - 27247, Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:12 Page: 1 ID:C62DD1be73YP1J7KS27d0BzFmPN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 34-1-8 17-0-12 17-0-12 17-0-12 0-10-8 4x5= 12 11 13 10⁵⁰ 51₁₄ 3x4 3x4 ~ 12 61 9 15 8 16 17 7 6 18 5 19 5x6 🙎 49 4 ²⁰52 5x6 21 22 0-0-40 39 38 37 36 35 34 33 32 31 30 29 26 25 24 28 27 3x8 II 3x4= 4x5= 4x5= 3x8 i 34-1-8 Scale = 1:64.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 237 lb	FT = 20%

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,

5-6=-117/94, 6-7=-110/137, 7-9=-103/177,

18-19=-83/96, 19-20=-92/64, 20-22=-76/40,

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,

TOP CHORD 1-2=0/23, 2-4=-125/88, 4-5=-125/62

22-23=0/23

LUMBER

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

Structural wood sheathing directly applied. Rigid ceiling directly applied.

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

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)

FORCES (lb) - Maximum Compression/Maximum Tension

BOT CHORD

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

NOTES

Unbalanced roof live loads have been considered for this design

20-24=-156/129

- 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 stude 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



February 21,2023

Continued on page 2

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 B Roof	
GHAZABR	A01	Common Supported Gable	2	1	Job Reference (optional)	156739322

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:12 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 B Roof
GHAZABR	A02	Common	1	1	Job Reference (optional)

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 13:02:15 ID:tf5tYuC7FRmmyWer5P?HmlzFmM?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

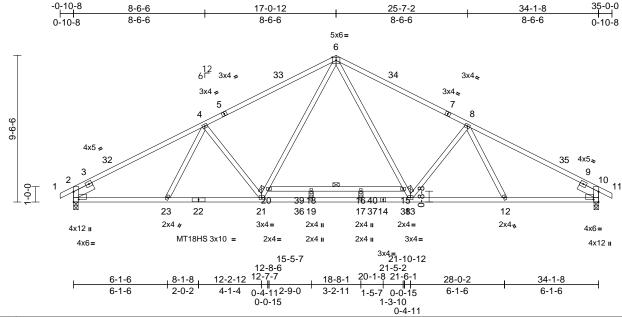


Plate Offsets (X, Y): [2:0-4-0,0-6-1], [10:0-4-0,0-6-1]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.42	17-19	>967	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.80	17-19	>513	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 196 lb	FT = 20%

LUMBER

Scale = 1:74.9

TOP CHORD 2x4 SP No.1 *Except* 1-5,7-11:2x4 SP DSS 2x4 SP DSS *Except* 22-14:2x4 SP No.1, BOT CHORD

20-15:2x4 SP No.2

WFBS 2x4 SP No 3

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

-- 1-6-0

BRACING TOP CHORD

Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied. Except:

6-0-0 oc bracing: 15-20

REACTIONS (size) 2=0-3-8, 10=0-3-8 Max Horiz 2=-140 (LC 10)

Max Uplift 2=-21 (LC 12), 10=-21 (LC 12)

Max Grav 2=1508 (LC 1), 10=1508 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-4=-2271/92, 4-6=-2130/81,

6-8=-2136/79, 8-10=-2268/88, 10-11=0/23

BOT CHORD 2-23=-68/2031, 21-23=0/2074,

19-21=0/1582, 17-19=0/1582, 13-17=0/1582,

12-13=0/1978, 10-12=-57/1928, 18-20=-90/0, 16-18=-90/0, 15-16=-90/0

6-15=0/836, 13-15=0/713, 8-13=-415/165, 8-12=-115/38, 20-21=0/699, 6-20=0/824,

4-21=-418/163, 4-23=-105/66, 18-19=-68/0,

NOTES

WEBS

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-6-7, Interior (1) 2-6-7 to 17-0-12, Exterior (2) 17-0-12 to 20-5-11, Interior (1) 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
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 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 3-06-00 tall by 2-00-00 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 21 lb uplift at joint 2 and 21 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

LOAD CASE(S) Standard



February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	A03	Common	6	1	Job Reference (optional)	156739324

Run: 8 63 S. Nov 19 2022 Print: 8 630 S. Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 13:02:15 ID:rqbcwy6gkA?jIO_z9pJZVMzFmIF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

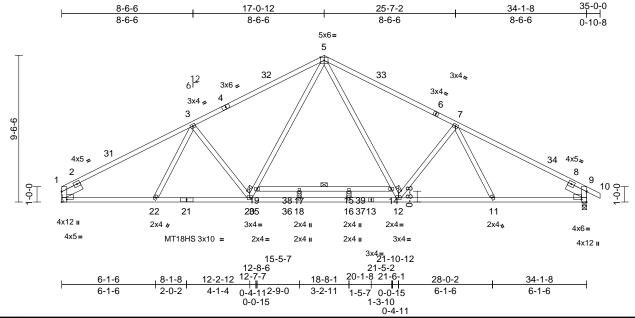


Plate Offsets (X, Y): [1:0-4-0,0-6-1], [9:0-4-0,0-6-1]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.91	Vert(LL)	-0.42	16-18	>968	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.80	16-18	>513	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 194 lb	FT = 20%

LUMBER

Scale = 1:74.9

TOP CHORD 2x4 SP No.1 *Except* 1-4,6-10:2x4 SP DSS 2x4 SP DSS *Except* 21-13:2x4 SP No.1, BOT CHORD

19-14:2x4 SP No.2

WFBS 2x4 SP No 3

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

-- 1-6-0

BRACING

FORCES

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

6-0-0 oc bracing: 14-19

REACTIONS (size) 1= Mechanical, 9=0-3-8

Max Horiz 1=-139 (LC 10) Max Uplift 9=-21 (LC 12)

Max Grav 1=1455 (LC 1), 9=1509 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2276/58, 3-5=-2132/86, 5-7=-2138/79,

7-9=-2269/87, 9-10=0/23

BOT CHORD 1-22=-76/2036, 20-22=0/2078

18-20=0/1583, 16-18=0/1583, 12-16=0/1583, 11-12=0/1979, 9-11=-57/1929, 17-19=-90/0,

15-17=-90/0, 14-15=-90/0

WEBS 5-14=0/836, 12-14=0/713, 7-12=-415/165,

7-11=-115/56, 19-20=0/700, 5-19=0/826, 3-20=-422/164, 3-22=-102/41, 17-18=-68/0,

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-4-15, Interior (1) 3-4-15 to 17-0-12, Exterior (2) 17-0-12 to 20-5-11, Interior (1) 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
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 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 3-06-00 tall by 2-00-00 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 21 lb uplift at joint
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.

LOAD CASE(S) Standard



February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	A04	Common	5	1	Job Reference (optional)	39325

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 13:02:16 ID:tf5tYuC7FRmmyWer5P?HmlzFmM?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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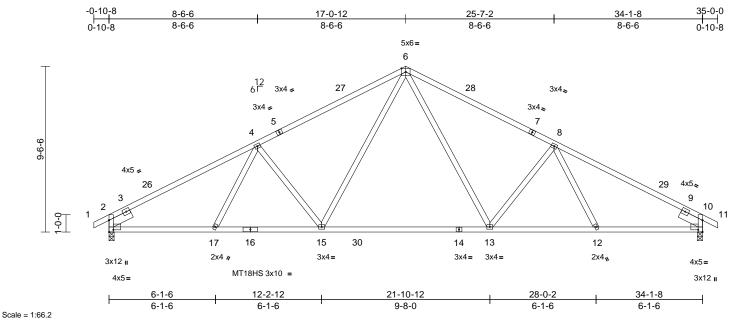


Plate Offsets (X, Y): [2:0-3-0,0-6-9], [10:0-3-0,0-6-9]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	1./d	PLATES	GRIP
-	\(\(\mathrea{\pi}\)	-					111	(/	i/ueii		_	
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.96	Vert(LL)	-0.37	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.65	13-15	>633	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.12	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 181 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5,7-11:2x4 SP DSS **BOT CHORD** 2x4 SP DSS *Except* 16-14:2x4 SP No.2

WEBS 2x4 SP No.3

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

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=-140 (LC 10)

Max Uplift 2=-76 (LC 12), 10=-76 (LC 12)

Max Grav 2=1418 (LC 1), 10=1418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-4=-2114/131, 4-6=-1850/195

6-8=-1853/193, 8-10=-2110/132, 10-11=0/23 BOT CHORD

2-17=-86/1807, 15-17=-41/1827, 13-15=0/1299, 12-13=-47/1793,

10-12=-76/1785

WFBS 6-13=-12/692, 8-13=-446/149, 8-12=-69/111,

6-15=-15/671, 4-15=-449/147, 4-17=-55/123

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=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-6-7, Interior (1) 2-6-7 to 17-0-12, Exterior (2) 17-0-12 to 20-5-11, Interior (1) 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
- All plates are MT20 plates 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 3-06-00 tall by 2-00-00 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 76 lb uplift at joint 2 and 76 lb uplift at joint 10.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

LOAD CASE(S) Standard



February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	B01	Common Supported Gable	1	1	Job Reference (optional)	156739326

5-10-8 5-10-8

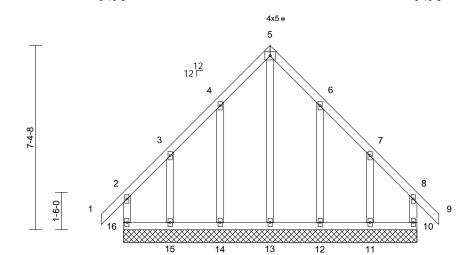
Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:16 ID:dfexAsVVXpTI_8N2buA2DJzFmcP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-9-0

5-10-8

Page: 1



Scale = 1:46.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MR							Weight: 83 lb	FT = 20%

11-9-0

LUMBER

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

TOP CHORD

BRACING 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)

10=11-9-0, 11=11-9-0, 12=11-9-0, 13=11-9-0, 14=11-9-0, 15=11-9-0, 16=11-9-0

Max Horiz 16=-171 (LC 10)

Max Uplift 10=-74 (LC 9), 11=-81 (LC 8),

12=-51 (LC 12), 14=-51 (LC 12), 15=-85 (LC 9), 16=-80 (LC 8)

Max Grav 10=182 (LC 17), 11=215 (LC 18), 12=175 (LC 18), 13=284 (LC 12),

14=174 (LC 17), 15=219 (LC 17),

16=189 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-148/101, 1-2=0/43, 2-3=-114/103,

3-4=-108/155, 4-5=-184/244, 5-6=-184/244, 6-7=-110/157, 7-8=-106/95, 8-9=0/43,

8-10=-143/99

15-16=-88/79, 14-15=-88/79, 13-14=-88/79,

12-13=-88/79, 11-12=-88/79, 10-11=-88/79 WEBS

5-13=-288/147, 4-14=-147/103, 3-15=-157/119, 6-12=-147/103,

7-11=-155/119

NOTES

BOT CHORD

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 1-10-8, Exterior (2) 1-10-8 to 5-10-8, Corner (3) 5-10-8 to 8-10-8, Exterior (2) 8-10-8 to 12-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 16, 74 lb uplift at joint 10, 51 lb uplift at joint 14, 85 lb uplift at joint 15, 51 lb uplift at joint 12 and 81 lb uplift at joint 11.
- 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.

LOAD CASE(S) Standard



February 21,2023

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

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

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

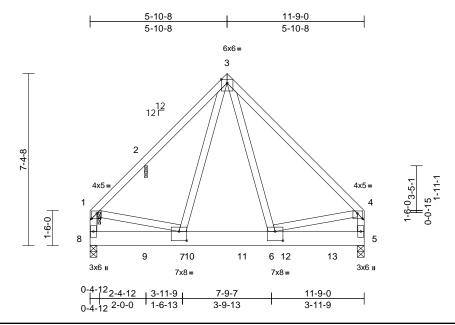


Job Truss Truss Type Qty Ply Garman Homes - Azalea B Roof
GHAZABR B02 Common Girder 1 3 Job Reference (optional)

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:16 ID:9PwNHcBZWPFUzXMSZEJHrDzFmAP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 284 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x8 SP No.2

WEBS 2x4 SP No.3 *Except* 8-1,5-4:2x4 SP No.2

BRACING

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

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

bracing.

REACTIONS (size) 1=0-1-8, 2=0-1-8, 5=0-3-8, 8=0-3-8

Max Horiz 8=-147 (LC 6) Max Uplift 2=-112 (LC 8)

Max Grav 1=3046 (LC 14), 2=253 (LC 13),

5=4325 (LC 1), 8=1974 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3352/0, 2-3=-3385/0, 3-4=-3537/0,

1-8=0/0, 4-5=-3212/0

BOT CHORD 7-8=-58/237, 6-7=0/1765, 5-6=0/327

WEBS 1-7=0/2322, 4-6=0/2226, 3-7=0/2215,

3-6=0/2480

NOTES

- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 3 rows staggered at 0-7-0 oc.
 - Web connected as follows: 2x4 1 row at 0-9-0 oc.
- 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.
- Unbalanced roof live loads have been considered for this design.

- 4) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1, 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 2.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1443 lb down at 0-1-12, 1435 lb down at 2-4-4, 1435 lb down at 4-3-4, 1435 lb down at 6-6-4, and 1435 lb down at 8-4-12, and 1435 lb down at 10-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.00

Light form Loads (II-/II)

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Uniform Loads (lb/ft)

Vert: 1-3=-60, 3-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 8=-1443 (B), 9=-1435 (B), 10=-1435 (B), 11=-1435 (B), 12=-1435 (B), 13=-1435 (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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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



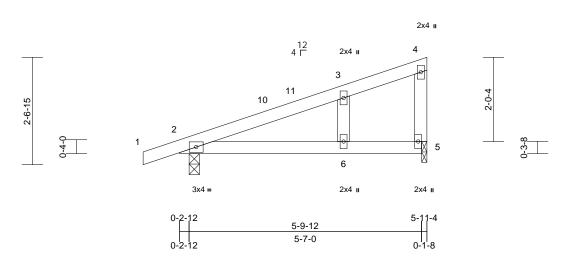
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	C01	Monopitch Structural Gable	1	1	Job Reference (optional)	156739328

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:17 ID:YSjQsDVxfEfmeJBykVoVoRzFmlR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	0.10	6-9	>687	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	6-9	>545	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 5=0-1-8 Max Horiz 2=64 (LC 11)

Max Uplift 2=-82 (LC 12), 5=-58 (LC 12)

Max Grav 2=292 (LC 1), 5=231 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/17, 2-3=-121/83, 3-4=-62/50,

4-5=-127/110

2-6=-107/99, 5-6=-30/33

BOT CHORD WEBS 3-6=-63/26

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.

- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 5 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 at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 58 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.

LOAD CASE(S) Standard



February 21,2023

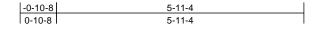


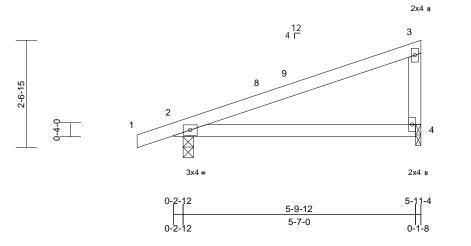
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	C02	Monopitch	1	1	Job Reference (optional)	

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2-0-4

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	0.10	4-7	>722	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.11	4-7	>634	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-0, 4=0-1-8 Max Horiz 2=64 (LC 11)

Max Uplift 2=-82 (LC 12), 4=-58 (LC 12)

Max Grav 2=292 (LC 1), 4=231 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-3=-115/86, 3-4=-157/115

BOT CHORD 2-4=-107/100

NOTES

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 2 and 58 lb uplift at joint 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.
- 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.

LOAD CASE(S) Standard



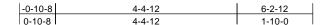
February 21,2023

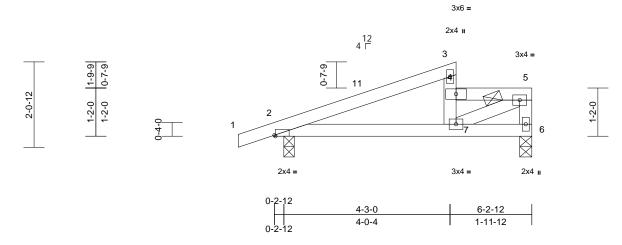


Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	C03	Half Hip	6	1	Job Reference (optional)	30

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Plate Offsets (X, Y): [2:0-0-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.76	Vert(LL)	-0.02	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	7-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-7, 4-5. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-0, 6=0-3-8 Max Horiz 2=51 (LC 9)

Max Uplift 2=-16 (LC 12)

Max Grav 2=337 (LC 1), 6=420 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/17. 2-3=-369/13. 4-7=-166/54.

3-4=-21/52, 4-5=-539/80, 5-6=-413/50

BOT CHORD 2-7=-71/325, 6-7=-13/15

WEBS 5-7=-99/597

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-1-0 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
- 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 3-06-00 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 16 lb uplift at joint
- 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.
- Load case(s) 1 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 1-3=-61, 4-5=-170, 6-8=-20

Drag: 3-4=-20



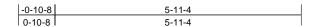
February 21,2023

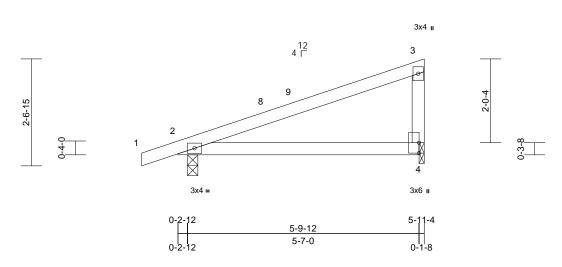


Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	C04	Monopitch	2	1	Job Reference (optional)	156739331

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.41	Vert(LL)	0.05	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 22 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD**

Rigid ceiling directly applied. REACTIONS (size) 2=0-3-0, 4=0-1-8

Max Horiz 2=103 (LC 12)

Max Uplift 2=-68 (LC 12), 4=-72 (LC 12)

Max Grav 2=292 (LC 1), 4=231 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/17, 2-3=-173/99, 3-4=-140/98

TOP CHORD BOT CHORD 2-4=-147/138

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 2 and 72 lb uplift at joint 4.

- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.

LOAD CASE(S) Standard



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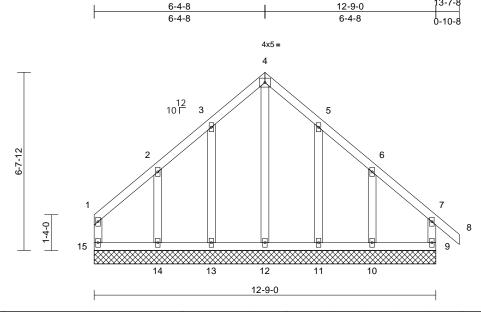
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	D01	Common Supported Gable	1	1	Job Reference (optional)	156739332

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 79 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

Structural wood sheathing directly applied, except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

9=12-9-0, 10=12-9-0, 11=12-9-0, 12=12-9-0, 13=12-9-0, 14=12-9-0,

15=12-9-0 Max Horiz 15=-141 (LC 10)

Max Uplift 9=-48 (LC 12), 10=-65 (LC 12),

11=-31 (LC 12), 13=-33 (LC 12), 14=-58 (LC 12), 15=-22 (LC 8)

9=181 (LC 17), 10=208 (LC 18), Max Grav

11=165 (LC 22), 12=193 (LC 12), 13=160 (LC 21), 14=229 (LC 17),

15=164 (I C 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-15=-94/45, 1-2=-99/72, 2-3=-119/129,

3-4=-170/191, 4-5=-170/191, 5-6=-119/128, 6-7=-103/62, 7-8=0/39, 7-9=-145/87

BOT CHORD 14-15=-67/75, 13-14=-67/75, 12-13=-67/75,

11-12=-67/75, 10-11=-67/75, 9-10=-67/75

WEBS 4-12=-187/104 3-13=-122/75 2-14=-161/110, 5-11=-126/76, 6-10=-150/110

NOTES

TOP CHORD

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

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-1-12 to 3-1-12, Exterior (2) 3-1-12 to 6-4-8, Corner (3) 6-4-8 to 9-4-8, Exterior (2) 9-4-8 to 13-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 15, 48 lb uplift at joint 9, 33 lb uplift at joint 13, 58 lb uplift at joint 14, 31 lb uplift at joint 11 and 65 lb uplift at joint 10.
- 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.

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 1-4=-60, 4-7=-60, 7-8=-60, 9-15=-20

Concentrated Loads (lb)

Vert: 15=-38 (F)



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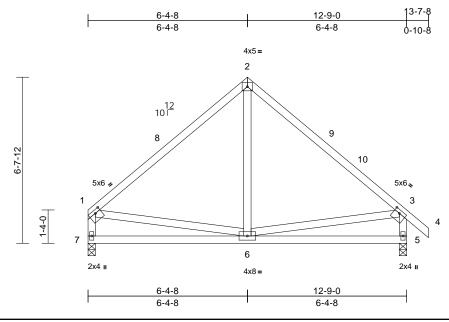
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	D02	Common	2	1	I56739333 Job Reference (optional)	

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.62	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 75 lb	FT = 20%

LUMBER

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

BRACING

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

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 5=0-3-8, 7=0-3-8

Max Horiz 7=-141 (LC 10)

Max Uplift 5=-47 (LC 12), 7=-19 (LC 12)

Max Grav 5=562 (LC 1), 7=496 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-479/79, 2-3=-485/82, 3-4=0/39,

1-7=-437/78, 3-5=-503/112

BOT CHORD 6-7=-88/262 5-6=-54/223

WEBS 2-6=0/237, 1-6=-32/175, 3-6=-60/177

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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 6-4-8, Exterior (2) 6-4-8 to 9-4-8, Interior (1) 9-4-8 to 13-7-8 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
- 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 19 lb uplift at joint 7 and 47 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This 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.

LOAD CASE(S) Standard



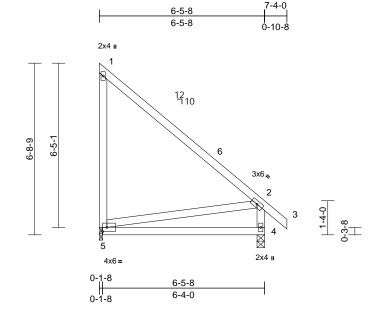
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	D03	Roof Special	17	1	Job Reference (optional)	156739334

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:18 ID:ZwYhekUxVPNIPTsEjQZgwCzFmVz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.66	Vert(LL)	-0.09	4-5	>853	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.17	4-5	>427	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 43 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 5-2:2x4 SP No.3 WEBS

2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied. REACTIONS (size) 4=0-3-8, 5=0-1-8

Max Horiz 5=-202 (LC 8)

Max Uplift 5=-70 (LC 8)

Max Grav 4=340 (LC 17), 5=294 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-226/227, 2-3=0/43, 2-4=-278/100,

1-5=-283/187 BOT CHORD 4-5=-17/18 WEBS 2-5=-259/285

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 4-4-11, Interior (1) 4-4-11 to 7-4-0 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
- 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.
- Bearing at joint(s) 5 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 at joint(s) 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This 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.

LOAD CASE(S) Standard



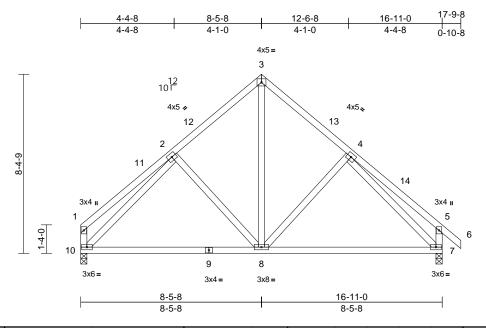
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	D04	Common	4	1	Job Reference (optional)	156739335

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 13:02:18 ID:Gr8Tk9cC9Uetc?d9JWk0KJzFmVp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:53.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.08	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.17	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 109 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 10-1,7-5:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

Rigid ceiling directly applied. REACTIONS (size) 7=0-3-8, 10=0-3-8

Max Horiz 10=-173 (LC 10)

Max Uplift 7=-19 (LC 12)

Max Grav 7=785 (LC 1), 10=713 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-266/62, 2-3=-604/102, 3-4=-603/99,

4-5=-286/87, 5-6=0/43, 1-10=-248/48,

5-7=-313/97

8-10=0/533. 7-8=0/487

3-8=-49/444, 4-8=-181/112, 2-8=-186/110, WEBS

2-10=-540/12, 4-7=-538/0

NOTES

BOT CHORD

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-5-8, Exterior (2) 8-5-8 to 11-5-8, Interior (1) 11-5-8 to 17-9-8 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
- 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 19 lb uplift at joint
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This 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.

LOAD CASE(S) Standard



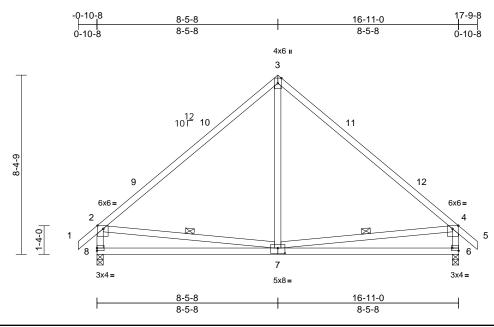
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof
GHAZABR	D05	Common	2	1	I56739336 Job Reference (optional)

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Page: 1



Scale = 1:53.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.72	Vert(LL)	-0.08	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.17	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 100 lb	FT = 20%

LUMBER

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

2x4 SP No.3 *Except* 8-2,6-4:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. **BOT CHORD**

Rigid ceiling directly applied. WEBS 2-7, 4-7 1 Row at midpt

REACTIONS (size) 6=0-3-8, 8=0-3-8 Max Horiz 8=-178 (LC 10)

> Max Uplift 6=-53 (LC 12), 8=-53 (LC 12) Max Grav 6=726 (LC 1), 8=726 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/39, 2-3=-668/90, 3-4=-668/90,

4-5=0/39, 2-8=-649/119, 4-6=-649/119

BOT CHORD 6-8=-147/493

WEBS 3-7=0/343, 2-7=-137/211, 4-7=-144/212

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-5-8, Exterior (2) 8-5-8 to 11-5-8, Interior (1) 11-5-8 to 17-9-8 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
- 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 53 lb uplift at joint 8 and 53 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.
- 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.

LOAD CASE(S) Standard



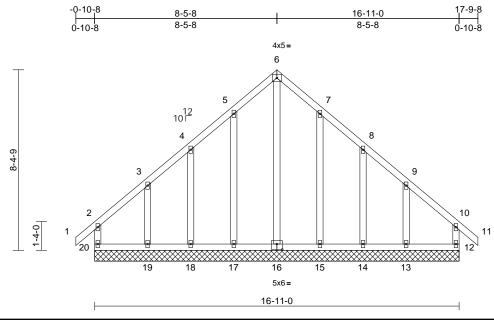
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	D06	Common Supported Gable	1	1	Job Reference (optional)	156739337

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Scale = 1:53.5

Plate Offsets	(X,	Y):	[16:0-3-0	0,0-3-0
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 116 lb	FT = 20%

LUMBER

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

BRACING

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

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

12=16-11-0, 13=16-11-0, 14=16-11-0, 15=16-11-0, 16=16-11-0, 17=16-11-0, 18=16-11-0, 19=16-11-0,

20=16-11-0

Max Horiz 20=-178 (LC 10) Max Uplift 12=-44 (LC 12), 13=-65 (LC 12),

14=-43 (LC 12), 15=-32 (LC 12), 17=-32 (LC 12), 18=-43 (LC 12), 19=-65 (LC 12), 20=-52 (LC 8)

Max Grav 12=189 (LC 17), 13=226 (LC 18), 14=156 (LC 1), 15=175 (LC 18), 16=260 (LC 12), 17=176 (LC 17), 18=156 (LC 1), 19=232 (LC 17),

20=200 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-20=-159/80, 1-2=0/39, 2-3=-122/100, 3-4=-104/118, 4-5=-160/188, 5-6=-210/246,

6-7=-210/246, 7-8=-159/187, 8-9=-105/119, 9-10=-111/85, 10-11=0/39, 10-12=-150/78 **BOT CHORD** 19-20=-83/85, 18-19=-83/85, 17-18=-83/85,

15-17=-83/85, 14-15=-83/85, 13-14=-83/85,

12-13=-83/85

WEBS 6-16=-256/154, 5-17=-133/69, 4-18=-127/85, 3-19=-159/104, 7-15=-132/68, 8-14=-126/85,

9-13=-156/103

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=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 8-5-8, Corner (3) 8-5-8 to 11-5-8, Exterior (2) 11-5-8 to 17-9-8 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 20, 44 lb uplift at joint 12, 32 lb uplift at joint 17, 43 lb uplift at joint 18, 65 lb uplift at joint 19, 32 lb uplift at joint 15, 43 lb uplift at joint 14 and 65 lb uplift at joint 13.
- 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

LOAD CASE(S) Standard



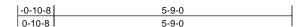
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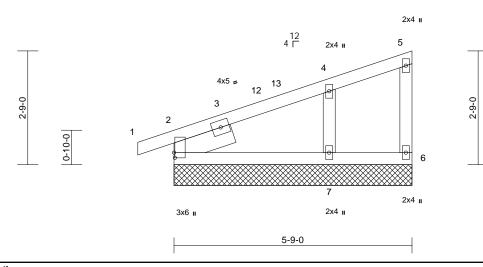


Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	E01	Monopitch Supported Gable	1	1	Job Reference (optional)	8

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Page: 1





Scale = 1:27.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 28 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS OTHERS 2x4 SP No 3 Left 2x6 SP No.2 -- 1-6-0

SLIDER **BRACING**

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS 2=5-9-0, 6=5-9-0, 7=5-9-0, 8=5-9-0 (size) Max Horiz 2=74 (LC 11), 8=74 (LC 11)

Max Uplift 2=-22 (LC 12), 7=-27 (LC 12), 8=-22 (LC 12)

Max Grav 2=183 (LC 1), 6=23 (LC 1), 7=295 (LC 1), 8=183 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/17, 2-4=-119/79, 4-5=-47/47, TOP CHORD

5-6=-23/40 BOT CHORD 2-7=-37/49, 6-7=-37/49

WEBS 4-7=-204/211

NOTES

- Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-1-8, Exterior (2) 2-1-8 to 5-7-4 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.
- 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 22 lb uplift at joint 2, 27 lb uplift at joint 7 and 22 lb uplift at joint 2.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This 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.

LOAD CASE(S) Standard



February 21,2023

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

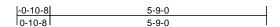
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

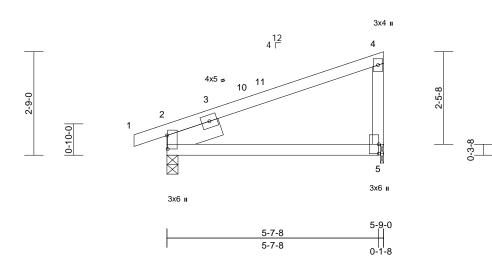


Job)	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GH	HAZABR	E02	Monopitch	7	1	Job Reference (optional)	156739339

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Scale = 1:30.6

Plate Offsets (X, Y): [2:0-4-5,0-0-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.02	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	5-8	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 26 lb	FT = 20%

LUMBER

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

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

BRACING

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

REACTIONS 2=0-3-8, 5=0-1-0 (size)

Max Horiz 2=110 (LC 12)

Max Uplift 2=-12 (LC 8), 5=-31 (LC 12)

Max Grav 2=281 (LC 1), 5=220 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/17, 2-4=-149/31, 4-5=-138/102

BOT CHORD 2-5=-162/166

NOTES

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-7-4 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
- 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.
- Bearing at joint(s) 5 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 at joint(s) 5.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 2 and 31 lb uplift at joint 5.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- This 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.

LOAD CASE(S) Standard

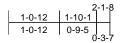


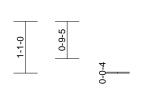
February 21,2023

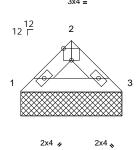


Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V01	Valley	1	1	Job Reference (optional)	156739340

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:20 ID:X52Q0pOT_8dECLDMnqsyepzFmSD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1







2-1-8

Scale = 1:24.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-8 oc purlins. **BOT CHORD**

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

REACTIONS (size) 1=2-1-8, 3=2-1-8

Max Horiz 1=-17 (LC 10)

Max Uplift 1=-3 (LC 12), 3=-3 (LC 12)

Max Grav 1=85 (LC 1), 3=85 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-97/15, 2-3=-97/15 BOT CHORD 1-3=-2/69

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 oc. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 3 lb uplift at joint 1 and 3 lb uplift at joint 3.
- 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.

LOAD CASE(S) Standard



February 21,2023

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

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

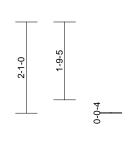


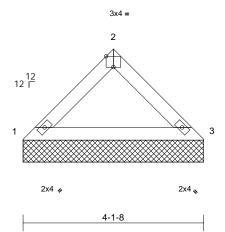
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V02	Valley	1	1	Job Reference (optional)	156739341

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Mon Feb 20 13:02:20 ID: Iv2sGMh95qmhiBd9lapp94zFmRq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1







Scale = 1:26.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=4-1-8, 3=4-1-8 Max Horiz 1=37 (LC 11)

Max Uplift 1=-6 (LC 12), 3=-6 (LC 12)

Max Grav 1=165 (LC 1), 3=165 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-206/31, 2-3=-206/31

Tension

BOT CHORD 1-3=-12/148

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 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 6 lb uplift at joint 1 and 6 lb uplift at joint 3.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.

LOAD CASE(S) Standard



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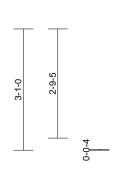


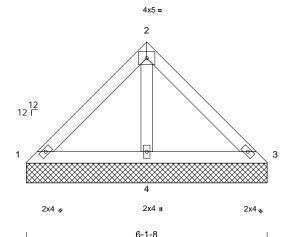
Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V03	Valley	1	1	Job Reference (optional)	156739342

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Scale = 1:29.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-AS							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size) 1=6-1-8, 3=6-1-8, 4=6-1-8

Max Horiz 1=57 (LC 11)

Max Uplift 4=-46 (LC 12) Max Grav 1=68 (LC 21), 3=68 (LC 22), 4=390

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-55/132, 2-3=-55/128

BOT CHORD 1-4=-114/85, 3-4=-114/85

WFBS 2-4=-263/88

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) 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.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V04	Valley	1	1	Job Reference (optional)	156739343

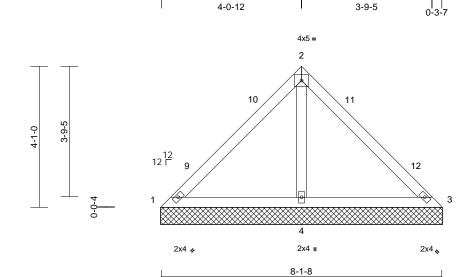
4-0-12

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

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7-10-1

Page: 1



Scale = 1:33.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MP							Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-1-8 oc purlins.

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

bracing.

REACTIONS (size) 1=8-2-0, 3=8-2-0, 4=8-2-0

Max Horiz 1=-77 (LC 10) Max Uplift 1=-22 (LC 22), 3=-22 (LC 21),

4=-96 (LC 12) 1=60 (LC 21), 3=60 (LC 22), 4=603 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-94/235, 2-3=-94/235

BOT CHORD 1-4=-201/131, 3-4=-201/131

2-4=-444/159 WEBS

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-1-0, Exterior (2) 4-1-0 to 7-1-0, Interior (1) 7-1-0 to 8-2-0 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 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 22 lb uplift at joint 1, 22 lb uplift at joint 3 and 96 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



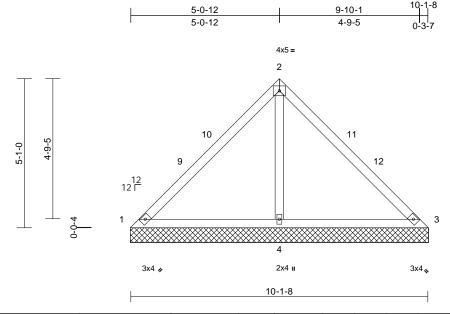
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V05	Valley	1	1	Job Reference (optional)	156739344

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Page: 1



Scale = 1:39.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 42 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

REACTIONS (size) 1=10-2-0, 3=10-2-0, 4=10-2-0

1=-97 (LC 10) Max Horiz Max Uplift

1=-39 (LC 22), 3=-39 (LC 21),

4=-122 (LC 12)

1=63 (LC 21), 3=63 (LC 22), 4=778 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-123/327, 2-3=-123/327

BOT CHORD 1-4=-246/144, 3-4=-246/144

2-4=-602/198 WEBS

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-1-0, Exterior (2) 5-1-0 to 8-1-0, Interior (1) 8-1-0 to 10-2-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 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 39 lb uplift at joint 1, 39 lb uplift at joint 3 and 122 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



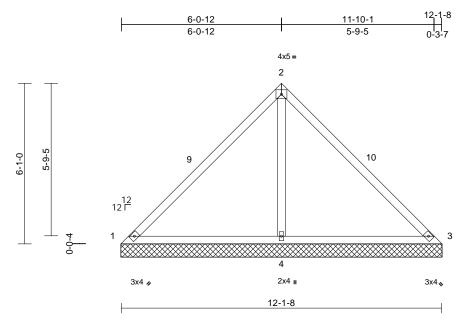
February 21,2023



Job	Truss	Truss Type	Qty	Ply	Garman Homes - Azalea B Roof	
GHAZABR	V06	Valley	1	1	Job Reference (optional)	I56739345

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries. Inc. Mon Feb 20 13:02:21 ID:UeNa__31UY?fmYmttoLJEvzFmQ3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:43.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horiz(TL)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 50 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

REACTIONS (size) 1=12-2-0, 3=12-2-0, 4=12-2-0

1=-117 (LC 10) Max Horiz

Max Uplift 1=-74 (LC 22), 3=-74 (LC 21),

4=-179 (LC 12)

1=71 (LC 12), 3=71 (LC 12), Max Grav

4=1006 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-180/445, 2-3=-179/445

BOT CHORD 1-4=-337/180, 3-4=-337/180

2-4=-797/259 WEBS

NOTES

- 1) 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=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 6-1-0, Exterior (2) 6-1-0 to 9-1-0, Interior (1) 9-1-0 to 12-2-0 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 74 lb uplift at joint 1, 74 lb uplift at joint 3 and 179 lb uplift at joint 4.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 3.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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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

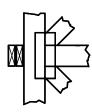
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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:

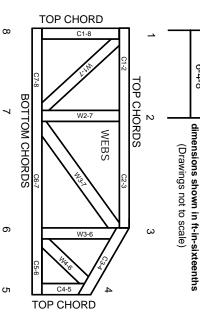
National Design Specification for Metal

DSB-89: ANSI/TPI1:

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.

Numbering System

6-4-8



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

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

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

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