

Trenco 818 Soundside Rd Edenton, NC 27932

Re: Q2200858

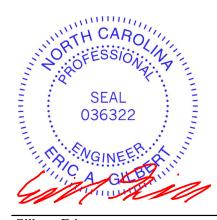
Garman Homes - Wisteria A & B

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: I54245348 thru I54245362

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

North Carolina COA: C-0844



September 16,2022

Gilbert, Eric

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

Job Truss Truss Type Qtv Ply Garman Homes - Wisteria A & B 154245348 Q2200858 A01 Piggyback Base Supported Gable Job Reference (optional)

Carolina Structural Systems, LLC, Ether, NC - 27247.

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:13 ID:qMA3ZbXBzG619xCEO6OmQizCmoV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

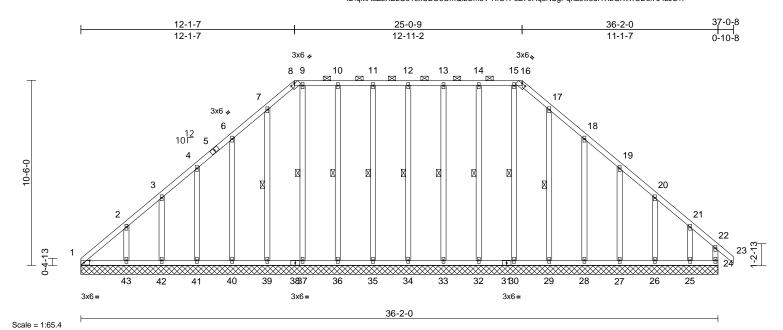


Plate Offsets (X, Y): [1:0-4-1,0-1-8], [8:0-3-0,0-0-4], [16:0-3-0,0-0-4]

| 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 | 0.10 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.10 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.14 | Horz(CT) | 0.01 | 24 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 304 lb | FT = 20% |

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

TOP CHORD

except end verticals, and 2-0-0 oc purlins

(6-0-0 max.): 8-16. Rigid ceiling directly applied.

BOT CHORD

WEBS 12-34, 11-35, 10-36, 1 Row at midpt

9-37, 7-39, 13-33, 14-32, 15-30, 17-29

REACTIONS (size) 1=36-2-0, 24=36-2-0, 25=36-2-0 26=36-2-0, 27=36-2-0, 28=36-2-0, 29=36-2-0, 30=36-2-0, 32=36-2-0, 33=36-2-0, 34=36-2-0, 35=36-2-0, 36=36-2-0, 37=36-2-0, 39=36-2-0,

Structural wood sheathing directly applied,

40=36-2-0, 41=36-2-0, 42=36-2-0, 43=36-2-0, 44=36-2-0

Max Uplift

Max Horiz 1=213 (LC 11), 44=213 (LC 11) 1=-69 (LC 10), 25=-100 (LC 12), 26=-25 (LC 12), 27=-36 (LC 12), 28=-45 (LC 12), 32=-10 (LC 12), 33=-1 (LC 12), 34=-1 (LC 12), 35=-1 (LC 12), 36=-10 (LC 12) 40=-45 (LC 12), 41=-35 (LC 12),

42=-31 (LC 12), 43=-51 (LC 12), 44=-69 (LC 10)

Max Grav 1=166 (LC 21), 24=151 (LC 20), 25=163 (LC 21), 26=170 (LC 21), 27=167 (LC 21), 28=172 (LC 21), 29=158 (LC 25), 30=156 (LC 25), 32=165 (LC 24), 33=160 (LC 25),

34=160 (LC 25), 35=160 (LC 24), 36=164 (LC 25), 37=168 (LC 20), 39=173 (LC 20), 40=166 (LC 20), 41=173 (LC 20), 42=147 (LC 20), 43=233 (LC 20), 44=166 (LC 21)

(lb) - Maximum Compression/Maximum

1-2=-195/201, 2-3=-179/163, 3-4=-161/143, 4-6=-142/135, 6-7=-187/209, 7-8=-220/247, 8-9=-185/218, 9-10=-185/218, 10-11=-185/218, 11-12=-185/218, 12-13=-185/218. 13-14=-185/218.

14-15=-185/218, 15-16=-185/218, 16-17=-220/247, 17-18=-187/209 18-19=-124/135, 19-20=-69/69, 20-21=-55/43, 21-22=-102/114, 22-23=0/39

22-24=-125/58 BOT CHORD 1-43=-94/117, 42-43=-94/117, 41-42=-94/117, 40-41=-94/117, 39-40=-94/117, 37-39=-94/117, 36-37=-94/117,

35-36=-94/117, 34-35=-94/117, 33-34=-94/117, 32-33=-94/117, 30-32=-94/117, 29-30=-94/117, 28-29=-94/117, 27-28=-94/117,

26-27=-94/117, 25-26=-94/117, 24-25=-94/117

12-34=-120/43, 11-35=-120/44 10-36=-124/54, 9-37=-128/54, 7-39=-133/39, 6-40=-138/94, 4-41=-131/80, 3-42=-119/78,

2-43=-160/96, 13-33=-120/44, 14-32=-125/54, 15-30=-116/54 17-29=-118/39, 18-28=-139/94, 19-27=-127/80, 20-26=-131/79,

21-25=-150/113

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=25ft; B=45ft; L=36ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-0 to 3-7-6, Exterior (2) 3-7-6 to 12-1-7, Corner (3) 12-1-7 to 15-8-13, Exterior (2) 15-8-13 to 25-0-9, Corner (3) 25-0-9 to 28-7-0, Exterior (2) 28-7-0 to 37-0-8 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. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- 6)
- Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.



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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

WEBS

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

FORCES

TOP CHORD



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|--------------------------------|-----|-----|--------------------------------|----------|
| Q2200858 | A01 | Piggyback Base Supported Gable | 1 | 1 | I5 Job Reference (optional) | 54245348 |

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Page: 2

- 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 69 lb uplift at joint 1, 1 lb uplift at joint 34, 1 lb uplift at joint 35, 10 lb uplift at joint 36, 45 lb uplift at joint 40, 35 lb uplift at joint 41, 31 lb uplift at joint 42, 51 lb uplift at joint 43, 1 lb uplift at joint 33, 10 lb uplift at joint 32, 45 lb uplift at joint 28, 36 Ib uplift at joint 27, 25 lb uplift at joint 26, 100 lb uplift at joint 25 and 69 lb uplift at joint 1.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

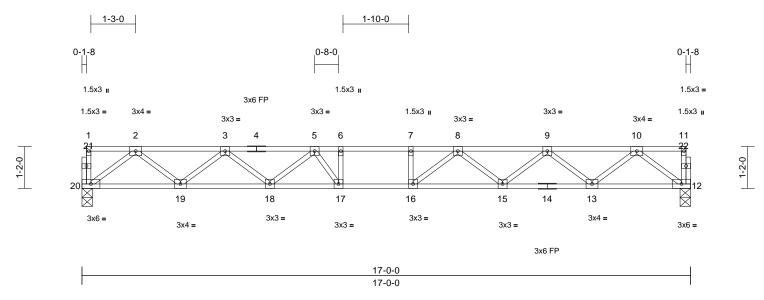
LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|-----------|
| Q2200858 | F201 | Floor | 5 | 1 | Job Reference (optional) | 154245349 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:15 ID:p9tEMumr6JW5wPJDuGRbUWzCn1i-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff Page: 1



Scale = 1:32.2

| 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 | 0.55 | Vert(LL) | -0.22 | 16 | >925 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.89 | Vert(CT) | -0.30 | 16 | >672 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 85 lb | FT = 20%F, 11%E |

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 12=0-3-8, 20=0-3-8

Max Grav 12=732 (LC 1), 20=732 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-20=-31/0, 11-12=-31/0, 1-2=-2/0,

2-3=-1540/0, 3-5=-2479/0, 5-6=-2924/0, 6-7=-2924/0, 7-8=-2924/0, 8-9=-2486/0,

9-10=-1539/0, 10-11=-2/0

BOT CHORD 19-20=0/913, 18-19=0/2138, 17-18=0/2808,

16-17=0/2924, 15-16=0/2802, 13-15=0/2139,

12-13=0/913

WEBS 10-12=-1143/0, 2-20=-1143/0, 10-13=0/815,

2-19=0/816, 9-13=-782/0, 3-19=-778/0, 9-15=0/451, 3-18=0/443, 8-15=-411/0, 5-18=-429/0, 8-16=-102/422, 7-16=-194/12,

6-17=-298/42, 5-17=-102/476

NOTES

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

LOAD CASE(S) Standard

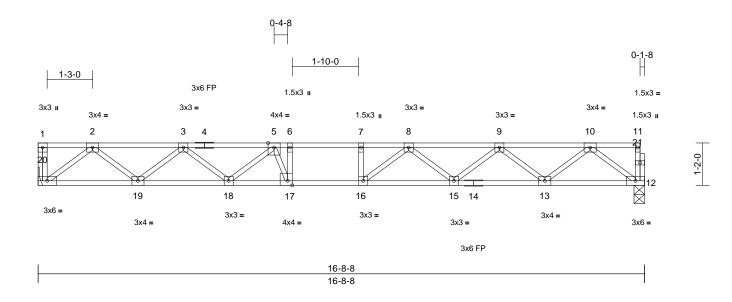


September 16,2022



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B |
|----------|-------|------------|-----|-----|-------------------------------|
| Q2200858 | F202 | Floor | 3 | 1 | Job Reference (optional) |

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Scale = 1:31.7

| Plate Offsets | (X, | Y |): | [17:0- | 1-8 | ,Edge] |
|---------------|-----|---|----|--------|-----|--------|
|---------------|-----|---|----|--------|-----|--------|

| 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 | 0.69 | Vert(LL) | -0.21 | 15-16 | >953 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.87 | Vert(CT) | -0.29 | 15-16 | >691 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.38 | Horz(CT) | 0.05 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 84 lb | FT = 20%F, 11%E |

LOAD CASE(S) Standard

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

BRACING

LUMBER

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) 12=0-3-8. 20= Mechanical Max Grav 12=719 (LC 1), 20=724 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-20=-34/0, 11-12=-31/0, 1-2=0/0,

 $2-3=-1508/0,\ 3-5=-2416/0,\ 5-6=-2820/0,$ 6-7=-2820/0, 7-8=-2820/0, 8-9=-2424/0,

9-10=-1506/0, 10-11=-2/0

BOT CHORD 19-20=0/898, 18-19=0/2089, 17-18=0/2739,

16-17=0/2820, 15-16=0/2723, 13-15=0/2092,

12-13=0/896

WEBS 10-12=-1122/0, 2-20=-1126/0, 10-13=0/794, 2-19=0/795, 9-13=-763/0, 3-19=-756/0,

9-15=0/433, 3-18=0/425, 8-15=-389/0, 5-18=-436/0, 8-16=-116/391, 7-16=-181/19,

6-17=-401/95, 5-17=-148/542

NOTES

- 1) Unbalanced floor live loads have been considered for 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.
- 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.

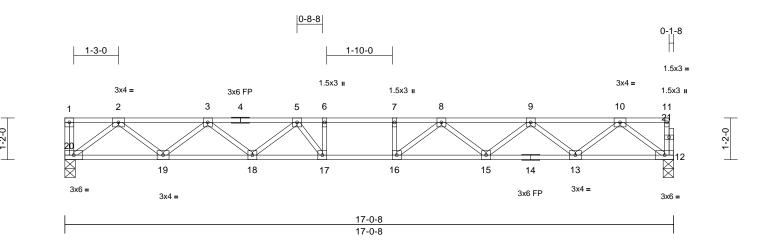


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| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|----------|
| Q2200858 | F203 | Floor | 7 | 1 | Job Reference (optional) | 54245351 |

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Scale = 1:32.2

| 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 | 0.55 | Vert(LL) | -0.22 | 16 | >922 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.89 | Vert(CT) | -0.30 | 16 | >669 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.39 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 85 lb | FT = 20%F, 11%E |

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 12=0-3-8, 20=0-3-8

Max Grav 12=733 (LC 1), 20=738 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-34/0, 11-12=-31/0, 1-2=0/0,

2-3=-1545/0, 3-5=-2488/0, 5-6=-2939/0, 6-7=-2939/0, 7-8=-2939/0, 8-9=-2495/0,

9-10=-1543/0, 10-11=-2/0

BOT CHORD 19-20=0/916, 18-19=0/2145, 17-18=0/2819,

16-17=0/2939, 15-16=0/2813, 13-15=0/2146,

12-13=0/915

WEBS 10-12=-1146/0, 2-20=-1150/0, 10-13=0/817,

2-19=0/819, 9-13=-785/0, 3-19=-781/0, 9-15=0/453, 3-18=0/446, 8-15=-414/0, 5-18=-430/0, 8-16=-100/427, 7-16=-196/11,

6-17=-289/37, 5-17=-99/473

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

LOAD CASE(S) Standard



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

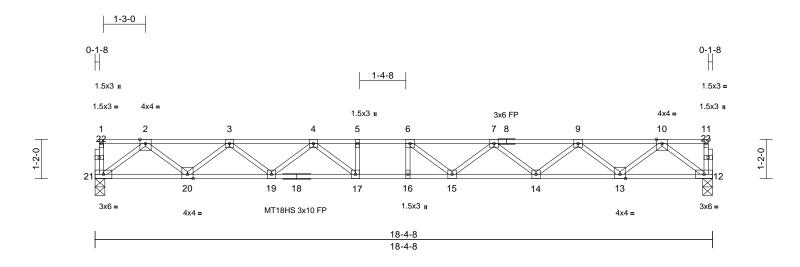
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|--------|
| Q2200858 | F204 | Floor | 7 | 1 | Job Reference (optional) | 245352 |

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Scale = 1:34.3

| Loading | (psf) | Spacing | 1-7-3 | CSI | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.60 | Vert(LL) | -0.29 | 15-16 | >755 | 480 | MT18HS | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.87 | Vert(CT) | -0.39 | 15-16 | >551 | 240 | MT20 | 244/190 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.43 | Horz(CT) | 0.06 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 92 lb | FT = 20%F, 11%E |

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 18-12:2x4 SP **BOT CHORD**

No.1(flat)

2x4 SP No.3(flat)

OTHERS 2x4 SP No.2(flat)

BRACING TOP CHORD

WEBS

Structural wood sheathing directly applied or

5-10-1 oc purlins, except end verticals.

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

REACTIONS (size) 12=0-3-8, 21=0-3-8

Max Grav 12=792 (LC 1), 21=792 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-21=-32/0, 11-12=-30/0, 1-2=-2/0,

2-3=-1693/0, 3-4=-2772/0, 4-5=-3429/0, 5-6=-3429/0, 6-7=-3339/0, 7-9=-2784/0,

9-10=-1689/0, 10-11=-2/0

BOT CHORD 20-21=0/993, 19-20=0/2361, 17-19=0/3177,

16-17=0/3429, 15-16=0/3429, 14-15=0/3194,

13-14=0/2357, 12-13=0/994

WEBS 10-12=-1245/0, 2-21=-1243/0, 10-13=0/905,

2-20=0/911, 9-13=-868/0, 3-20=-870/0, 9-14=0/557, 3-19=0/534, 7-14=-533/0, 4-19=-528/0, 7-15=0/317, 4-17=-30/538, 6-15=-360/146, 5-17=-192/0, 6-16=-161/87

NOTES

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



September 16,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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

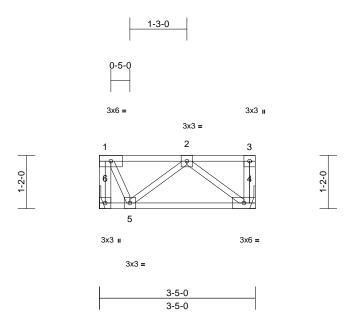
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



| ١ | Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|---|----------|-------|------------|-----|-----|-------------------------------|-----------|
| | Q2200858 | F205 | Floor | 2 | 1 | Job Reference (optional) | 154245353 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:16 $ID: jnhRUO1 razEpXmmkb_jXLGzCmuJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ffrom the property of the propert$ Page: 1



Scale = 1:25.3

| 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 | 0.15 | Vert(LL) | 0.00 | 4-5 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.07 | Vert(CT) | 0.00 | 4-5 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | NO | WB | 0.05 | 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**

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical Max Grav 4=139 (LC 1), 6=139 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-6=-146/0, 3-4=-37/0, 1-2=-46/0, 2-3=0/0

BOT CHORD 5-6=0/0. 4-5=0/124

WEBS 2-4=-156/0, 2-5=-102/0, 1-5=0/100

NOTES

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

LOAD CASE(S) Standard

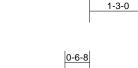


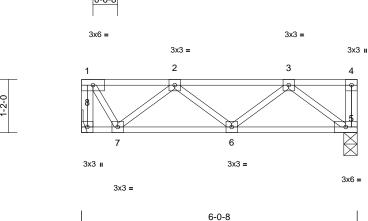
September 16,2022



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|---------|
| Q2200858 | F206 | Floor | 2 | 1 | Job Reference (optional) | 4245354 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:16 ID:7i5j1_daJQ_1V0Eal40PCBzCmoO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:25.3

| 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 | 0.21 | Vert(LL) | 0.00 | 6 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.11 | Vert(CT) | -0.01 | 5-6 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.11 | Horz(CT) | 0.00 | 5 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-P | | | | | | | Weight: 34 lb | FT = 20%F, 11%E |

6-0-8

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) 5=0-3-8, 8= Mechanical

Max Grav 5=255 (LC 1), 8=255 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-255/0, 4-5=-32/0, 1-2=-128/0,

2-3=-330/0, 3-4=0/0

BOT CHORD 7-8=0/0, 6-7=0/349, 5-6=0/283

WEBS 3-5=-355/0, 3-6=0/61, 2-6=-25/0, 2-7=-289/0,

1-7=0/237

NOTES

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

LOAD CASE(S) Standard



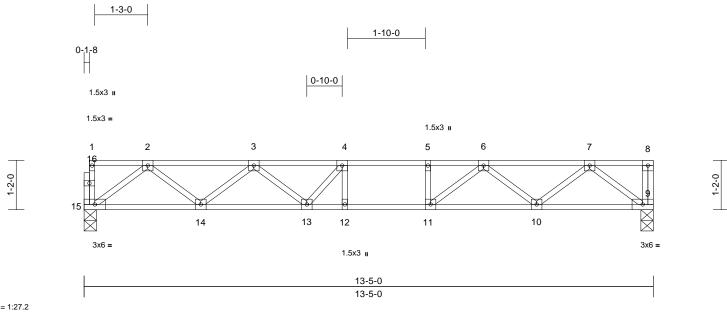
September 16,2022



818 Soundside Road Edenton, NC 27932

| | Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|---|----------|-------|------------|-----|-----|-------------------------------|----------|
| ١ | Q2200858 | F207 | Floor | 8 | 1 | Job Reference (optional) | 54245355 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:16 ID:7i5j1_daJQ_1V0Eal40PCBzCmoO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.2

| 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 | 0.42 | Vert(LL) | -0.10 | 12-13 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.77 | Vert(CT) | -0.14 | 12-13 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.27 | Horz(CT) | 0.03 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 68 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.3(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 9=0-3-8, 15=0-3-8

Max Grav 9=579 (LC 1), 15=574 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-31/0, 8-9=-31/0, 1-2=-2/0, 2-3=-1143/0,

3-4=-1716/0, 4-5=-1793/0, 5-6=-1793/0, 6-7=-1135/0, 7-8=0/0

BOT CHORD 14-15=0/707, 13-14=0/1553, 12-13=0/1793, 11-12=0/1793, 10-11=0/1543, 9-10=0/711

7-9=-891/0, 2-15=-885/0, 7-10=0/552,

2-14=0/567, 6-10=-532/0, 3-14=-534/0,

6-11=0/461, 3-13=0/292, 5-11=-192/0,

4-12=-125/73, 4-13=-282/52

NOTES

WEBS

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

LOAD CASE(S) Standard

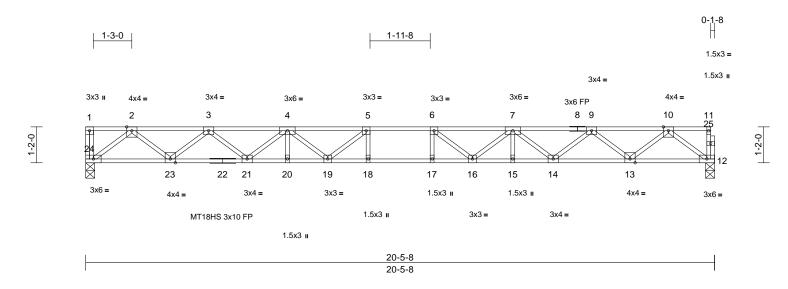


September 16,2022



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|-----------|
| Q2200858 | F208 | Floor | 11 | 1 | Job Reference (optional) | 154245356 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:16 $ID:O_6z_Bd0jDkEIvHvm?ZF9uzCmsG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$ Page: 1



Scale = 1:37.5

| Loading | (psf) | Spacing | 1-7-3 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|----------|-------|-------|--------|-----|----------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.70 | Vert(LL) | -0.41 | 17-18 | >588 | 480 | MT18HS | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 1.00 | Vert(CT) | -0.57 | 17-18 | >427 | 240 | MT20 | 244/190 |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.09 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 104 lb | FT = 20%F, 11%E |

LUMBER

TOP CHORD 2x4 SP No.2(flat)

2x4 SP No.2(flat) *Except* 22-12:2x4 SP **BOT CHORD**

No.1(flat)

2x4 SP No.3(flat) WEBS

2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-13 oc purlins, except end verticals.

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

bracing, Except:

2-2-0 oc bracing: 18-19,16-17 1-4-12 oc bracing: 17-18.

REACTIONS (size) 12=0-3-8, 24=0-3-8

Max Grav 12=884 (LC 1), 24=889 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD

1-24=-34/0, 11-12=-31/0, 1-2=0/0,

2-3=-1921/0, 3-4=-3230/0, 4-5=-4030/0, 5-6=-4280/0, 6-7=-4030/0, 7-9=-3230/0,

9-10=-1920/0, 10-11=-2/0

BOT CHORD 23-24=0/1115, 21-23=0/2698, 20-21=0/3769,

19-20=0/3769, 18-19=0/4280, 17-18=0/4280, 16-17=0/4280, 15-16=0/3769, 14-15=0/3769,

13-14=0/2698, 12-13=0/1114

10-12=-1395/0, 2-24=-1398/0, 10-13=0/1049, 2-23=0/1049, 9-13=-1013/0, 3-23=-1012/0, 9-14=0/692, 3-21=0/692, 7-14=-689/0,

7-15=-20/39, 4-21=-689/0, 4-20=-20/39, 7-16=0/422, 4-19=0/422, 6-16=-590/71, 5-19=-590/71, 5-18=-164/193, 6-17=-164/193

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates 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.

CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



September 16,2022

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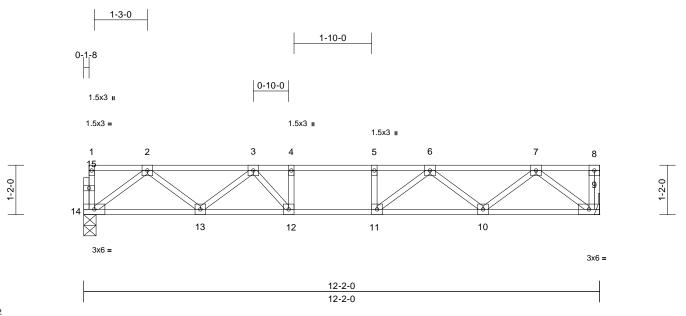
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| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|------------|-----|-----|-------------------------------|-----------|
| Q2200858 | F209 | Floor | 2 | 1 | Job Reference (optional) | 154245357 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries. Inc. Fri Sep 16 09:58:16 ID:7i5j1_daJQ_1V0Eal40PCBzCmoO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:27.2

| 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 | 0.37 | Vert(LL) | -0.07 | 10-11 | >999 | 480 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.49 | Vert(CT) | -0.10 | 10-11 | >999 | 240 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.23 | Horz(CT) | 0.02 | 9 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 62 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.3(flat) OTHERS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 9= Mechanical, 14=0-3-8 Max Grav 9=524 (LC 1), 14=519 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-14=-28/0, 8-9=-32/0, 1-2=-2/0, 2-3=-999/0,

3-4=-1469/0, 4-5=-1469/0, 5-6=-1469/0, 6-7=-1004/0, 7-8=0/0

BOT CHORD 13-14=0/638, 12-13=0/1340, 11-12=0/1469, 10-11=0/1336, 9-10=0/640

7-9=-803/0, 2-14=-799/0, 7-10=0/475, 2-13=0/470, 6-10=-432/0, 3-13=-444/0,

6-11=0/331, 5-11=-158/0, 4-12=-213/0,

3-12=0/363

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

LOAD CASE(S) Standard

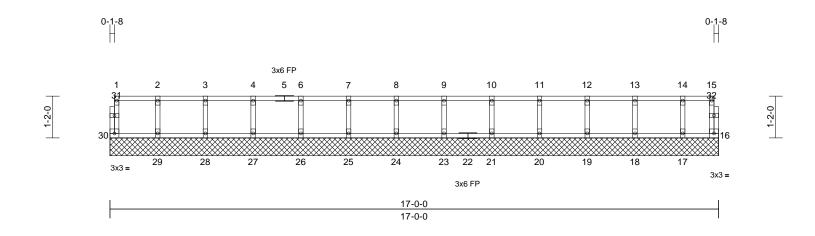


September 16,2022



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| Q2200858 | K201 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | I54245358 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:17 ID:9VWZ?jb?yWIsnVPaiOCr23zCn3D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:32.2

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 16 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 71 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.3(flat) OTHERS

BRACING

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 **BOT CHORD**

bracing.

REACTIONS (size)

16=17-0-0, 17=17-0-0, 18=17-0-0, 19=17-0-0, 20=17-0-0, 21=17-0-0, 23=17-0-0, 24=17-0-0, 25=17-0-0, 26=17-0-0, 27=17-0-0, 28=17-0-0, 29=17-0-0, 30=17-0-0

Max Grav 16=37 (LC 1), 17=122 (LC 1),

18=152 (LC 1), 19=145 (LC 1),

20=147 (LC 1), 21=147 (LC 1), 23=147 (LC 1), 24=147 (LC 1), 25=147 (LC 1), 26=147 (LC 1),

27=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 30=53 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-30=-49/0, 15-16=-31/0, 1-2=-7/0, 2-3=-7/0, 3-4=-7/0, 4-6=-7/0, 6-7=-7/0, 7-8=-7/0,

8-9=-7/0, 9-10=-7/0, 10-11=-7/0, 11-12=-7/0, 12-13=-7/0, 13-14=-7/0, 14-15=-7/0

BOT CHORD 29-30=0/7, 28-29=0/7, 27-28=0/7, 26-27=0/7,

25-26=0/7, 24-25=0/7, 23-24=0/7, 21-23=0/7, 20-21=0/7, 19-20=0/7, 18-19=0/7, 17-18=0/7,

16-17=0/7

WEBS 2-29=-132/0, 3-28=-134/0, 4-27=-133/0,

6-26=-133/0, 7-25=-133/0, 8-24=-133/0, 9-23=-133/0. 10-21=-133/0. 11-20=-134/0. 12-19=-132/0. 13-18=-138/0. 14-17=-114/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) 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.

LOAD CASE(S) Standard



September 16,2022

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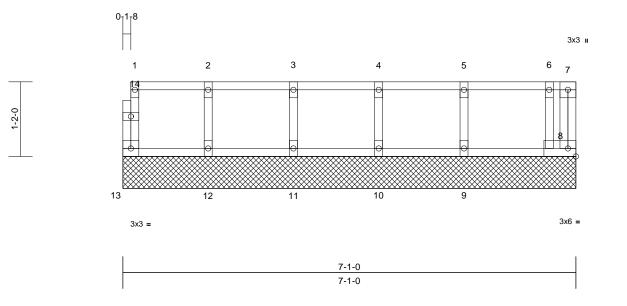
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 - Wisteria A & B | |
|----------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| Q2200858 | K203 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | 154245359 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:17 ID:5X?BaLaxV0rdKIYdLSCNBZzCn4W-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:18

| 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 | 0.09 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.03 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 8 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-R | | | | | | | Weight: 33 lb | FT = 20%F, 11%E |

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 8=7-1-0, 9=7-1-0, 10=7-1-0, 11=7-1-0, 12=7-1-0, 13=7-1-0

8=94 (LC 1), 9=161 (LC 1), 10=142 Max Grav

(LC 1), 11=151 (LC 1), 12=133 (LC

1), 13=64 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-13=-55/0, 7-8=0/6, 1-2=-17/0, 2-3=-17/0,

3-4=-17/0, 4-5=-17/0, 5-6=-17/0, 6-7=-1/0

12-13=0/17, 11-12=0/17, 10-11=0/17, 9-10=0/17, 8-9=0/17

WEBS 2-12=-126/0, 3-11=-136/0, 4-10=-130/0,

5-9=-143/0, 6-8=-96/0

NOTES

BOT CHORD

- 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.
- 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



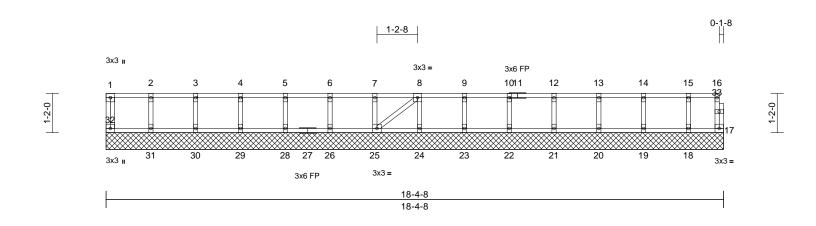
September 16,2022



| Job | Truss | Truss Type | | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|-----------------------|---|-----|-------------------------------|-----------|
| Q2200858 | K204 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | 154245360 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:17 ID:gErUW7 ljCJce0vdKAOS flWzCn4l-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?floored floored f

Page: 1



Scale = 1:34.3

| Loading | (psf) | Spacing | 2-0-0 | csı | | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 17 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 80 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

OTHERS 2x4 SP No.3(flat) *Except* 17-33:2x4 SP

No.2(flat)

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

REACTIONS (size)

17=18-4-8, 18=18-4-8, 19=18-4-8, 20=18-4-8, 21=18-4-8, 22=18-4-8, 23=18-4-8, 24=18-4-8, 25=18-4-8, 26=18-4-8, 28=18-4-8, 29=18-4-8, 30=18-4-8, 31=18-4-8, 32=18-4-8 Max Grav

17=32 (LC 1), 18=134 (LC 1), 19=150 (LC 1), 20=146 (LC 1), 21=147 (LC 1), 22=147 (LC 1), 23=147 (LC 1), 24=145 (LC 1), 25=148 (LC 1), 26=147 (LC 1), 28=147 (LC 1), 29=147 (LC 1), 30=145 (LC 1), 31=156 (LC 1),

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-32=-47/0, 16-17=-29/0, 1-2=0/0, 2-3=0/0,

3-4=0/0, 4-5=0/0, 5-6=0/0, 6-7=0/0, 7-8=0/0, 8-9=-2/0, 9-10=-2/0, 10-12=-2/0, 12-13=-2/0,

13-14=-2/0, 14-15=-2/0, 15-16=-2/0 31-32=0/0, 30-31=0/0, 29-30=0/0, 28-29=0/0,

32=52 (LC 1)

BOT CHORD 26-28=0/0, 25-26=0/0, 24-25=0/2, 23-24=0/2,

22-23=0/2, 21-22=0/2, 20-21=0/2, 19-20=0/2,

18-19=0/2, 17-18=0/2

WEBS 2-31=-142/0, 3-30=-131/0, 4-29=-134/0,

5-28=-133/0, 6-26=-133/0, 7-25=-133/0, 8-24=-132/0. 9-23=-133/0. 10-22=-133/0. 12-21=-134/0, 13-20=-133/0, 14-19=-136/0,

15-18=-121/0, 8-25=-2/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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



September 16,2022



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

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

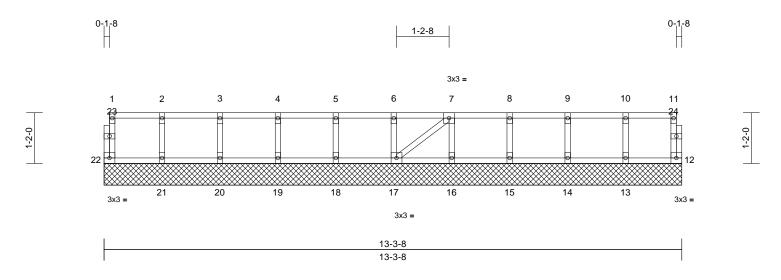
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



| Job | Truss | Truss Type | Qty | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|-----------------------|-----|-----|-------------------------------|-----------|
| Q2200858 | K207 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | I54245361 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:17 ID:Vr9ueZP9oi4cfbUxXWy5dczCn4k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 1.00 | TC | 0.08 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.00 | BC | 0.01 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Rep Stress Incr | YES | WB | 0.03 | Horiz(TL) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 5.0 | Code | IRC2015/TPI2014 | Matrix-S | | | | | | | Weight: 59 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.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)

12=13-3-8, 13=13-3-8, 14=13-3-8, 15=13-3-8, 16=13-3-8, 17=13-3-8, 18=13-3-8, 19=13-3-8, 20=13-3-8,

21=13-3-8, 22=13-3-8

Max Grav 12=46 (LC 1), 13=149 (LC 2), 14=147 (LC 2), 15=147 (LC 1), 16=152 (LC 1), 17=147 (LC 2),

18=147 (LC 2), 19=147 (LC 1), 20=146 (LC 2), 21=152 (LC 1),

22=152 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-148/0. 11-12=-42/0. 1-2=-9/0. 2-3=-9/0.

> 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0, 7-8=-3/0, 8-9=-3/0, 9-10=-3/0, 10-11=-3/0 21-22=0/9, 20-21=0/9, 19-20=0/9, 18-19=0/9,

17-18=0/9, 16-17=0/3, 15-16=0/3, 14-15=0/3,

13-14=0/3, 12-13=0/3

2-21=-138/0, 3-20=-133/0, 4-19=-134/0,

5-18=-133/0, 6-17=-133/0, 7-16=-138/0, 8-15=-133/0, 9-14=-133/0, 10-13=-135/0,

7-17=0/8

NOTES

WEBS

BOT CHORD

- 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.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 104 lb down at 0-2-4 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: 12-22=-10, 1-11=-100 Concentrated Loads (lb)

Vert: 1=-104 (F)



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

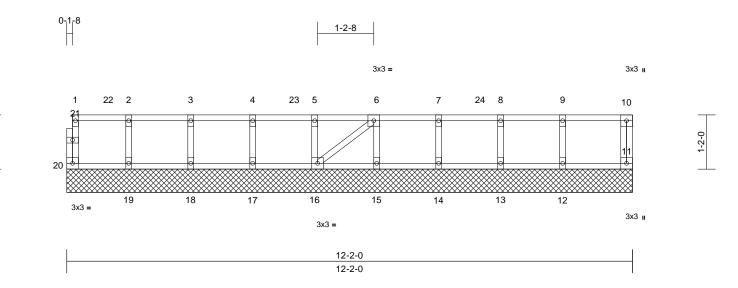
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



| Job | Truss | Truss Type Qty | | Ply | Garman Homes - Wisteria A & B | |
|----------|-------|-----------------------|---|-----|-------------------------------|-----------|
| Q2200858 | K209 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | 154245362 |

Run: 8.43 S Jan 6 2022 Print: 8.430 S Jan 6 2022 MiTek Industries, Inc. Fri Sep 16 09:58:17 ID:4GTm?XNHVni2o8IMrOPO?_zCn4n-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:24.8

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------|-------|-----------------|-----------------|----------|------|-----------|------|-------|--------|-----|---------------|-----------------|
| TCLL | 40.0 | Plate Grip DOL | 0.90 | TC | 0.11 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Plate Metal DOL | 0.90 | BC | 0.02 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 | Lumber DOL | 0.90 | WB | 0.04 | Horiz(TL) | 0.00 | 11 | n/a | n/a | | |
| BCDL | 5.0 | Rep Stress Incr | YES | Matrix-S | | | | | | | | |
| | | Code | IRC2015/TPI2014 | | | | | | | | Weight: 54 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 **OTHERS** 2x4 SP No.3(flat)

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

REACTIONS (size)

11=12-2-0, 12=12-2-0, 13=12-2-0, 14=12-2-0, 15=12-2-0, 16=12-2-0, 17=12-2-0, 18=12-2-0, 19=12-2-0,

20=12-2-0

Max Grav 11=61 (LC 5), 12=199 (LC 7), 13=170 (LC 7), 14=161 (LC 5),

15=176 (LC 7), 16=174 (LC 7), 17=159 (LC 5), 18=172 (LC 7), 19=185 (LC 7), 20=60 (LC 7)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-20=-55/0, 10-11=-55/0, 1-2=-3/0, 2-3=-3/0,

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

7-8=0/0, 8-9=0/0, 9-10=0/0

BOT CHORD 19-20=0/3, 18-19=0/3, 17-18=0/3, 16-17=0/3,

15-16=0/0, 14-15=0/0, 13-14=0/0, 12-13=0/0,

11-12=0/0

WEBS 2-19=-171/0, 3-18=-159/0, 4-17=-146/0,

5-16=-163/0, 6-15=-162/0, 7-14=-147/0, 8-13=-157/0, 9-12=-183/0, 6-16=0/4

NOTES

- 1) Unbalanced floor live loads have been considered for
- 2) All plates are 1.5x3 MT20 unless otherwise indicated. 3) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 4)
- 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
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 81 lb down at 0-10-12, 78 lb down at 2-10-12, 78 lb down at 4-10-12, 78 lb down at 6-10-12, and 78 lb down at 8-10-12, and 78 lb down at 10-10-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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=0.90, Plate Increase=0.90 Plt. metal=0.90

Uniform Loads (lb/ft)

Vert: 11-20=-10, 1-10=-20

Concentrated Loads (lb)

Vert: 3=-78 (F), 6=-78 (F), 9=-78 (F), 22=-81 (F),

23=-78 (F), 24=-78 (F)



Page: 1

September 16,2022

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

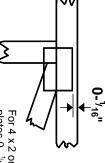


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



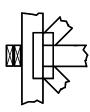
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



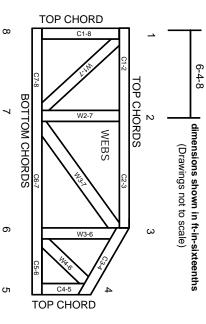
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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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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- 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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
- 15. 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.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.