Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

AST #: 28928 JOB: 21-6088-R01 JOB NAME: 49786-0218 WOODGROVE Wind Code: 37 Wind Speed: Vult= 115mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. 29 Truss Design(s)

Trusses:

PB01, PB02, PB03, PB04, PB05, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, VT01, VT02, VT03, VT04, VT05, VT06, VT07, VT08, VT09, VT10



Warning !--- Verify design parameters and read notes before use.



| | | <u></u> 1 | -0 | | | | | | |
|--|---|--|--|---------------------------------------|-----------------------------|--------------------------------|--|---|---|
| Plate Offsets (X,Y) [13:0 | -2-8,0-3-0] | | | | | | | | |
| LOADING (psf) V TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014 | CSI. TC 0.20 BC 0.16 WB 0.07 Matrix-SH | DEFL. Vert(LL) Vert(CT) Horz(CT) | in (n/a n/a 0.00 | (loc) - - 10 | l/defl n/a n/a n/a | L/d 999 999 n/a | PLATES MT20 Weight: 99 lb | GRIP 244/190 FT = 20% |
| LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 OTHERS 2x4 SP No.3 | 2 3 | | BRACING- FOP CHORD BOT CHORD | Structu Rigid c MiTek be ins | iral wo eiling k reco | ood shea directly mmenda | athing direc applied or s that Stabi truss erecti | ctly applied or 6-0-0 oc 10-0-0 oc bracing. ilizers and required cro ion, in accordance with | purlins. oss bracing o Stabilizer |

Installation guide.

REACTIONS. All bearings 22-1-0.

(lb) - Max Horz 1=65(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 10, 17, 18, 14, 13, 12 except 1=-105(LC 28), 11=-105(LC 35) Max Grav All reactions 250 lb or less at joint(s) 1, 11, 15, 17, 13 except 2=326(LC 1), 16=256(LC 5), 10=327(LC 1), 18=288(LC 21), 14=255(LC 6), 12=288(LC 22)

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

NOTES-(14-17)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-15 to 5-0-8, Interior(1) 5-0-8 to 6-2-14, Exterior(2R) 6-2-14 to 15-10-2, Interior(1) 15-10-2 to 16-11-8, Exterior(2E) 16-11-8 to 21-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.

- a) This duss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will CARO for the bottom chord and any other members, with BCDL = 10.0psf.
 11) Provide mechanical connection (by others) of truss to bearing ploto acception for the second to the second tothe second to the second to t 13, 12 except (jt=lb) 1=105, 11=105.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Warning !--Verify design parameters and read notes before use. This design is based only upon parameters shown, and is tot an increased continued on page 2. Continued on page 2. Vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss designer. Bracing shown is for lateral support vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss designer. Bracing shown is for lateral support vertically. of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC |
|-------------|-------|------------|-----|-----|---|
| 21-6088-R01 | PB01 | GABLE | 2 | 1 | Job Reference (optional) # 28928 |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:30:22 2021 Page |

ID:8BSIWII7uOgu7p2zCnsgREydifw-UNBgGrJFhofbBekl3EHbWGVIZ3Lj?KQDvQkRDTyV3PI

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC | |
|-------------|-------|------------|-----|-----|---|------|
| 21-6088-R01 | PB02 | GABLE | 9 | 1 | Job Reference (optional) # 28928 | |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:30:23 2021 Pa | ge 2 |

ID:8BSIWII7uOgu7p2zCnsgREydifw-yZI2TBKtS5nSpoJxdxoq2U2P4TdQkn3N74U_lwyV3Pk

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

10) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|--------------------------------|
| 21-6088-R01 | PB03 | GABLE | 2 | 2 | Job Reference (optional) | # 28928 |
| | | | | | 8 430 s Feb 12 2021 MiTek Industries Inc. | Sat Oct 9 19:30:25 2021 Page 3 |

8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:30:25 2021 Page 2 ID:8BSIWII7uOgu7p2zCnsgREydifw-uysoutM7_j1926SKkMrI8v7o6HL7CiTfbNz5poyV3Pi

16) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 17) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

19) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|------------------------------|
| 21-6088-R01 | PB04 | GABLE | 2 | 4 | Job Reference (optional) | # 28928 |
| | | | | | 8 430 c Eeb 12 2021 MiTek Industries Inc. | Sat Oct 0 10:30:26 2021 Page |

8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:30:26 2021 Page 2 ID:8BSIWII7uOgu7p2zCnsgREydifw-M8QA5DMII090gG1WI4MXg6g0phjgx99pp1ieMEyV3Ph

15) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
16) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





BRACING-

TOP CHORD

BOT CHORD

end verticals.

Installation guide

Weight: 18 lb

NOINEE K. MORR

10/9/2021

Structural wood sheathing directly applied or 5-3-8 oc purlins, except

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer

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

FT = 20%

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

Code IRC2018/TPI2014

NOTES-(11-14)

BCDL

WFBS

LUMBER-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-P

- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

Max Uplift2=-12(LC 14), 4=-31(LC 14) Max Grav 2=302(LC 21), 4=229(LC 21)

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
- non-concurrent with other live loads.

10.0

2x4 SP No.3

Max Horz 2=66(LC 14)

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.3

- 5) Gable requires continuous bottom chord bearing.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

REACTIONS. (lb/size) 5=0/3-11-15 (min. 0-1-8), 2=210/3-11-15 (min. 0-1-8), 4=162/3-11-15 (min. 0-1-8)

- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
- designer.
 11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not structural design of the truss to support the loads indicated.
 13) Web bracing shown is for lateral support of the loads indicated.

- Graphical bracing representation does not depict the size, type of the size that the member must be braced. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated. Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing Installing, Restraining & SHET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED INTERCENTION POLICIPIE PO MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

монтрини 22<u>021</u> 1/с LOADIDASE(S): By and by an and the second se vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Trusse Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|--------------------------------|
| 21-6088-R01 | R01 | GABLE | 1 | 1 | Job Reference (optional) | # 28928 |
| | | | | | 9 420 a Eab 12 2021 MiTak Industrian Inc. | Set Oct 0 10:20:21 2021 Dage 2 |

8.430 s Feb 12 2021 Mi Lek Industries, Inc. Sat Oct 9 19:30:31 2021 Page 2 ID:8BSIWII7uOgu7p2zCnsgREydifw-j6E38wQuZZoJn1wU5dyiN9NfZiClcBCYzJQP1SyV3Pc

NOTES- (20-23)

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 8) Provide adequate drainage to prevent water ponding.
- 9) All plates are MT20 plates unless otherwise indicated.
- 10) All plates are 2x4 MT20 unless otherwise indicated.
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 28-30, 29-30
- 15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24
- 16) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 17.
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 19) Attic room checked for L/360 deflection.
- 20) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 21) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 22) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 23) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|--------------------------------|
| 21-6088-R01 | R02 | ATTIC | 3 | 1 | Job Reference (optional) | # 28928 |
| | | | | | 8 430 c Eeb 12 2021 MiTek Industries Inc. | Sat Oct 0 10:30:33 2021 Page 2 |

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NOTES- (17-20)

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (5.0 psf) on member(s). 28-30, 29-30
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24
- 13) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24, 17.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Attic room checked for L/360 deflection.
- 17) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 18) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 20) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE | FUQUAY VARINA, NC | |
|--|---|--|---|----------------------------|---|--|---|
| 21-6088-R01 | R03 | ATTIC | 2 | 1 | | # | 28928 |
| -0 _r 6-8 7-2-12 | 8 ₇ 2-12 15-2-0 , 20 | -5-8 , 24-8-025 _r 10 ₁ 12 33-0-4 | ID:8BSIWII7u 40-1-12 | Ogu7p2zC _42-6-8 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek CnsgREydifw-0S9jcJWHwi 48-3-8 53-1-12 | Industries, Inc. Sat Oct 9 1 igJ66yq?baL9eAskWbLk 57-10-4 63-0-0 | 9:30:38 2021 Page 1 MnaavcHnYyV3PV <u>63-</u> 6-8 |
| 0-6-8 7-2-12 | 1-0-0 6-11-4 5 | -3-8 4-2-8 1-2-12 7-1-8 | 7-1-8 | 2-4-12 | 5-9-0 4-10-4 | 4-8-8 5-1-12 | 0-6-8 |
| | | | | | | | Scale = 1:108.6 |
| | | 6x10 = 2x4 W11 | | | | | |
| | 6.00 12 | 5x5 = 5x5 | 5x8 = 5x6 = | 2x4 6 | x10 = | | |
|] | 2x4 | 7 0 ³ T3 ⁴¹ | 42 10 ¥⊌1 41 ₁ 一甲 | | 3x4 = | | [|
| 5x6 | ² 4v6 - ⁶ T2 | | Vali 2 | | 2x4 14 | | |
| N | 7x8 = 30,40 | 32 W9 5x5 = | 274 | 8°34 10 * 30 | <u>®W16</u> ∎ <u>T5</u> 15 6 45 | 5 5x5 ≈ 2x4 | 2 |
| 1-1-1 | 3 1/2 | V6 W7 W10 7 | 6x8 | W102×4 = | | ¹⁶ 46 ₄₇ 4x6 < | 11-1 |
| | W5 W4 W5 | | 13-11-8 | 5x& | 8-0-0 W18 | | 0 |
| 2 1 B1 | B3 | | D <i>E</i> | | P7 | W21 T6 | 19 [[] 19 |
| 0-6- | 3130 | B4 \ 🔟 🔂 🖸 👼 | <u> </u> | | | | |
| 6x8 = 10 | <12 MT20HS= 29 | 9 50 28 27 26 | | 25 2 | 24 23 | 22 51 52 21 | 6x8 = |
| 6x10 ≈ 10x | 12 MT20HS= 10x12 MT20HS - | = 10x14 $=$ 6x8 | = 1 | 0x10 = | $7x8 = \frac{10x12}{7}$ | MT20HS= | |
| 3.00 12 | | 6x8 = 6x10 = | | 7x12 M | T20HS= | | |
| | | 0X10 — | | | | | |
| | | | | | | | |
| 0-3-8 7-2-12 | 8 ₇ 2-12 15-2-0 | 24-2-8 25-10-12 | 40-1-12 | · · | 48-3-8 57- | -10-4 63-0-0 | |
| 0-3-8 6-11-4 Plate Offsets (X,Y) [2:0 | 1-0-0 6-11-4)-0-12,Edge], [23:0-1-8,0-3-6 | <u>9-0-8</u> <u>1-8-4</u> 3], [25:0-3-12,0-2-12], [27:0-5-0,0-6- | <u>14-3-0</u> -8], [29:0-3-0,0-4-1] | 2], [30:0-6 | 8-1-12 9-0 6-0,0-6-4], [31:0-6-0,0-7 | <u>-0], [35:0-4-0,0-2-8]</u> | · |
| LOADING (psf) | SPACING- | 2-0-0 CSI . | DEFL. | in (lo | oc) I/defl L/d | PLATES | GRIP |
| Snow (Pf) 20.0 | Plate Grip DOL | 1.15 TC 0.96 | Vert(LL) | -0.97 23- | 25 >473 240 | MT20 MT20HS | 244/190 |
| TCDL 10.0 BCLL 0.0 * | Rep Stress Incr | YES WB 0.94 | Horz(CT) | 0.39 | 19 n/a n/a | WI 20H3 | 107/143 |
| BCDL 10.0 | Code IRC2018/TP | 2014 Matrix-SH | Attic | -0.37 25- | 27 458 360 | Weight: 662 lb | FT = 20% |
| LUMBER- | 2 *Evcent* | | BRACING- | Structure | al wood sheathing direct | tly applied or 1-5-5 oc | nurline |
| T3,T1: 2x | 5 SP No.1 | | BOT CHORD | Rigid cei | iling directly applied or 1 | I-4-12 oc bracing. | purmis. |
| BOT CHORD 2x10 SP 2 B5,B7: 1-8 | 2400F 2.0E ^Except^ 3/16x4-12/16 SP No.2, B1,B | 2: 2x8 SP DSS, B3: 2x8 SP No.1 | WEBS | 1 Row a 2 Rows | t midpt 10-32, at 1/3 pts 4-29, 9 | , 10-35 9-28 | |
| WEBS 2x4 SP No W10 W9 | 0.3 *Except* 2x4 SP No 1_W12 W4 W18 | W3 W16: 2x4 SP No 2 | JOINTS | 1 Brace This trus | at Jt(s): 33, 34, 36 ss requires both edges o | of the bottom chord be | sheathed in the |
| 1110,110. | 2,4 01 10.1, 112,04,010 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | room are | ea. | | |
| | | | | MiTek be insta | recommends that Stabil alled during truss erection | izers and required cros on, in accordance with | ss bracing Stabilizer |
| REACTIONS. (Ib/size) | 2=2375/0-3-8 (min 0-2-15 |) 28=737/0-5-8 (min 0-1-8) 19=26 | 62/0-3-8 (min 0-2 | Installa | tion guide. | | |
| Max Horz | 2=128(LC 14) | , 20 101/0 0 0 (1111. 0 1 0), 10 20 | |) | | | |
| Max Opin Max Grav | 2=3014(LC 46), 28=1190(L | C 53), 19=3476(LC 46) | | | | | |
| FORCES. (lb) - Max. Co | mp./Max. Ten All forces 2 | 50 (lb) or less except when shown. | | | | | |
| TOP CHORD 2-37=-10 | 205/0, 3-37=-10071/0, 3-38 | =-9196/0, 4-38=-9187/0, 4-39=-533 | 35/0, 5-39=-5321/0 | , | | | |
| 41-42=-5 | 5323/0, 10-42=-5323/0, 10-4 | 3=-5770/0, 43-44=-5770/0, 11-44=- | -5770/0, | | | | |
| 11-12=-5 16-45=-5 | 5770/0, 12-13=-5706/0, 13-1 5917/0, 16-46=-6699/0, 46-4 | 4=-4446/0, 14-15=-5566/0, 15-45=- 7=-6721/0, 17-47=-6792/0, 17-48=- | -5768/0, -6802/0, | | | | |
| 18-48=-6 BOT CHORD 29-49=0 | 6806/0, 18-19=-6994/0 | =0/4279 27-28=0/5125 26-27=0/5 | 120 25-26=0/5136 | | | | |
| 24-25=0 | /5195, 23-24=0/5159, 23-51 | =0/5686, 22-51=0/5686, 22-52=0/5 | 686, 21-52=0/5686 |),), | | | |
| WEBS 27-32=0 | /6084, 2-31=0/9143, 30-31= /1667, 9-32=0/1808, 25-34= | 0/8749, 29-30=0/8456 0/1359, 34-35=0/1365, 12-35=-616 | /152, | | | | |
| 32-33=-1 10-35=-1 | 166/1932, 33-35=-166/1932 | 4-29=-4194/0, 7-29=-214/1087, 10 | -32=-1870/225, | | | WHUTH CARO | 11. |
| 6-29=-68 | 39/160, 3-30=-976/68, 3-31= | 0/1808, 7-28=0/1899, 8-28=-6/454, | , 9-28=-3003/0, | | III. | OFESSION 1 | 1911 |
| 14-36=-1 | 1238/84, 13-35=0/2136, 35- | 30=-1340/95, 13-36=-24/8/3 | | | inn, | Por Mar | |
| NOTES- (18-21) 1) Unbalanced roof live lo | oads have been considered | for this design | | | 11 | SEAL | |
| 2) Wind: ASCE 7-16; Vul | t=115mph (3-second gust) | /asd=91mph; TCDL=5.0psf; BCDL= | =5.0psf; h=23ft; Ca | t. II; Exp | B; Enclosed; MWFRS | 20147 | |
| 29-4-7 to 33-7-9, Exter | rior(2R) 33-7-9 to 51-5-7, Inf | erior(1) 51-5-7 to 57-2-14, Exterior(| 2E) 57-2-14 to 63-6 | 6-8 zone; | C-C for members and | A MOINEER | Mul |
| forces & MWFRS for r 3) TCLL: ASCE 7-16: Pr- | eactions shown; Lumber D0 =20.0 psf (roof LL: Lum D0L | 0L=1.60 plate grip DOL=1.60 .=1.15 Plate DOL=1.15): Pf=20.0 ps | sf (Lum DOL=1.15 | Plate DO | L=1.15): ls=1.0: Rough | ARK K MORRI | enner. |
| Cat B; Partially Exp.; (| Ce=1.0; Cs=1.00; Ct=1.10 | this design | , | | ,, <u>,</u> , | White Bernard Huge | |
| 5) This truss has been de | esigned for greater of min ro | of live load of 12.0 psf or 2.00 times | s flat roof load of 20 | 0.0 psf or | overhangs | 10/9/2021 | · |
| Winning Continued on page 2 Vertically Applicability of | heatilineeloecdand read notes be design parameters and proper in | efore use. This design is based only upon corporation of component is responsibility | parameters shown, ar | nd is for an | individual building compon designer or truss engineer | ent to be installed and load Bracing shown is for later | ded al support |
| of individual web members | only. Additional temporary bra | cing to ensure stability during construction | n is the responsibility | of the erect | tor. Additional permanent b | racing of the overall struct | ture is the |
| responsibility of the buildin Plate Connected Wood Tru | g designer. For general guidance ass Construction and BCSI 1-03 | e regarding fabrication, quality control, sto Guide to Good Practice for Handling, In | orage, delivery, erections stalling & Bracing of | on and brac Metal Plai | cing, consult ANSI/TPI 1 Na te Connected Wood Trusses | ational Design Standard f from Truss Plate Institute | or Metal e, 583 |

D'Onofrio Drive, Madison, WI 53719.

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|--|--------------------------------|
| 21-6088-R01 | R03 | ATTIC | 2 | 1 | Job Reference (optional) | # 28928 |
| | | | | | 0.400 a Eab 40.0004 MiTal/ Industrian Inc. | Cat Oat 0 10-20-20 2021 Dame 1 |

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NOTES- (18-21)

6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing. 7) Provide adequate drainage to prevent water ponding.

8) All plates are MT20 plates unless otherwise indicated.

9) All plates are 6x6 MT20 unless otherwise indicated.

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Ceiling dead load (5.0 psf) on member(s). 14-15, 32-33, 33-35, 34-36, 14-36
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 25-27, 23-25
- 14) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 28=177.
- 16) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Attic room checked for L/360 deflection.
- 18) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 19) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 20) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 21) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE | FUQUAY VARINA, NC | |
|--|--|---|---|--|---|--|--|
| 21-6088-R01 | R04 | ATTIC | 1 | 2 | | # | 28928 |
| -0 <u>r6-8 7-2-12</u> 0-6-8 7-2-12 | 8 <u>-2-12 15-2-0</u> 1-0-0 6-11-4 | 20-5-8 24-8-025-10-12 33-0-4 5-3-8 4-2-8 1-2-12 7-1-8 | ID:8BSIWII7 40-1-12 7-1-8 | /uOgu7p2z 42-6-8 2-4-12 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek CnsgREydifw-n_ekl2cl1A 48-3-8 53-1-12 5-9-0 4-10-4 | industries, Inc. Sat Oct 9 1 hB4LZMTGjDUKVH4lKr <u>57-10-4</u> 63-0-0 4-8-85-1-12 | 9:30:46 2021 Page 1 nc02IQ9Yi34yV3PN 63-6-8 6-8 |
| | | | | | | | Scale = 1:109.7 |
| 5x3 5x3 6x8 = 36 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6.00 12 2x4 5 = 4x6 = 6T2 5x8 = 387.39 $3 \sqrt{2}$ $3 \sqrt{2}$ | $6x10 = \begin{array}{c} 2x4 \\ 5x5 = \\ 7 & 8 & 9 & W11 \\ 3 & 9 & 13 & 40 \\ 3 & 9 & 5x5 = \\ 10 & 5x5 = \\ 10 & 9 & 10 \\ 8 & 49 & 27 & 26 \\ 48 & 49 & 27 & 26 \\ 6x8 = & 6x \\ 5x8 = \end{array}$ | 5x8 = 4x6 = 1x6 | 2x4 6 43 12 43 12 734 734 734 734 734 734 734 7 2x4 7 | | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | = 8x9 2-4-5 10-11-12 10-11-12 |
| 0- <u>3-8 7-2-12</u> 0- <u>3-8 6-11-4</u> Plate Offsets (X,Y) [2:0 | 8-2-12 15-2-0 1-0-0 6-11-4)-0-12,Edge], [28:0-11-12,0 | 24-2-8 25-10-12 9-0-8 1-8-4 -5-4], [29:0-3-0,0-5-0], [30:0-6-0,0-4 | 40-1-12 14-3-0 1-4] | | 48-3-8 57 8-1-12 9 | 7-10-4 63-0-0 6-12 5-1-12 | |
| LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF | 2-3-8 CSI. 1.15 TC 0.74 1.15 BC 0.97 NO WB 0.80 Pl2014 Matrix-SH | DEFL. Vert(LL) Vert(CT) Horz(CT) Attic | in (lo -0.62 22- -1.08 22- 0.25 -0.23 24- | oc) I/defl L/d 24 >737 240 24 >427 180 18 n/a n/a 26 749 360 | PLATES MT20 MT20HS Weight: 1283 I | GRIP 244/190 187/143 b FT = 20% |
| LUMBER- TOP CHORD 2x6 SP No BOT CHORD 2x10 SP 2 B5: 1-8/16 B3: 2x6 SI WEBS 2x4 SP No W10 W12 | 0.2 2400F 2.0E *Except* 244.12/16 SP No.2, B1: 2x8 P No.2 0.3 *Except* .W18.W16: 2x4 SP No 2 | SP No.1, B2: 2x6 SP No.1 | BRACING- TOP CHORD BOT CHORD WEBS JOINTS | 2-0-0 oc (Switche Rigid ce 1 Row a 1 Brace This trus | purlins (3-10-7 max.) d from sheeted: Spacin lling directly applied or t midpt 4-28, at Jt(s): 7, 31, 32, 33, s requires both edges of | g > 2-0-0). 10-0-0 oc bracing. 9-27 3, 34, 35 of the bottom chord be | sheathed in the |

room area. REACTIONS. (lb/size) 2=2739/0-3-8 (min. 0-1-15), 27=817/0-5-8 (min. 0-1-8), 18=3061/0-3-8 (min. 0-1-10) Max Horz 2=146(LC 14) Max Uplift27=-204(LC 11) Max Grav 2=3473(LC 46), 27=1330(LC 53), 18=3995(LC 46)

forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-36=-11641/0, 3-36=-11488/0, 3-37=-10404/0, 4-37=-10394/0, 4-38=-6111/0, 5-38=-6083/0, 5-39=-5990/0, 6-39=-5979/0, 6-7=-6121/79, 7-8=-5613/0, 8-9=-5613/0, 9-40=-6104/0, 40-41=-6104/0, 10-41=-6104/0, 10-42=-6475/0, 42-43=-6475/0, 11-43=-6475/0, 11-12=-6475/0, 12-13=-6437/0, 13-14=-5249/0, 14-44=-6669/0, 15-44=-6840/0, 15-45=-7669/0, 45-46=-7695/0, 16-46=-7775/0, 16-47=-7788/0, 17-47=-7791/0, 17-18=-8008/0 BOT CHORD 28-48=0/4941, 48-49=0/4948, 27-49=0/4948, 26-27=0/5916, 25-26=0/5922, 24-25=0/5922, 23-24=0/5957, 22-23=0/5957, 22-50=0/6561, 21-50=0/6561, 21-51=0/6561, 20-51=0/6561,

18-20=0/6967, 2-30=0/10417, 29-30=0/9951, 28-29=0/9565 WEBS 26-31=0/1729, 9-31=0/1879, 24-33=0/1517, 33-34=0/1522, 12-34=-685/174, 17-20=-15/251, 1-32-215/2216, 32-34-215/2216, 4-28--4680/0, 7-28--55/1207, 10-31--2176/278, 10-34--1737/330, 14-22=0/653, 15-22--1044/174, 15-20--144/777, 4-29=0/3858, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-20--004/124, 0-20--005/122, 0-2 6-28=-804/184, 3-29=-1357/70, 3-30=0/2306, 7-27=0/2257, 8-27=-9/487, 9-27=-3162/0, 14-35=-1322/86, 13-34=0/2229, 34-35=-1544/108, 13-35=-36/1174

AND A COPESSION NOTES-(21-24) NAMANIA MARINA 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc, 1-8/16x4-12/16 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows SEAL staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. 28147 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to by ALL DE ANA connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. NOINEE 3) Unbalanced roof live loads have been considered for this design.
 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS K. MORR (envelope) gable end zone and C-C Exterior(2E) -0-6-8 to 5-9-2, Interior(1) 5-9-2 to 11-6-9, Exterior(2R) 11-6-9 to 29-4-7, Interior(1) 29-4-7 to 33-7-9, Exterior(2R) 33-7-9 to 51-5-7, Interior(1) 51-5-7 to 57-2-14, Exterior(2E) 57-2-14 to 63-6-8 zone; C-C for members and

Warning !---Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded Continued on page 2. Vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

10/9/2021

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|--|--------------------------------|
| 21-6088-R01 | R04 | ATTIC | 1 | 2 | Job Reference (optional) | # 28928 |
| | | | | | 8 430 c Eob 12 2021 MiTok Industrios, Inc. | Sat Oct 0 10:30:46 2021 Page 2 |

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- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 9) Provide adequate drainage to prevent water ponding.
- 10) All plates are MT20 plates unless otherwise indicated.
- 11) All plates are 6x6 MT20 unless otherwise indicated.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 31-32, 32-34, 33-35, 14-35
- 15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 24-26, 22-24
- 16) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 27=204.
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10.2 and referenced standard ANSI/TPI 1.
- 19) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 20) Attic room checked for L/360 deflection.
- 21) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

22) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

- 23) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate 24) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



NOTES-(21-24)



r une Connectea wood Truss Constructio D'Onofrio Drive, Madison, WI 53719.

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|---------------------------------|
| 21-6088-R01 | R05 | ATTIC | 1 | 2 | Job Reference (optional) | # 28928 |
| | | | | | 8 430 c Eeb 12 2021 MiTek Industries Inc. | Sat Oct. 0 10:30:40 2021 Page 2 |

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- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 9) Provide adequate drainage to prevent water ponding.
- 10) All plates are MT20 plates unless otherwise indicated.
- 11) All plates are 6x6 MT20 unless otherwise indicated.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 30-31, 31-33, 32-34, 14-34
- 15) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 23-25, 21-23
- 16) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 19) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 20) Attic room checked for L/360 deflection.
- 21) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

22) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

- 23) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate 24) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



NOTES-(21-24)



Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| J | Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|---|-------------|-------|------------|-----|-----|---|---------------------------|
| 2 | 21-6088-R01 | R06 | ATTIC | 2 | 1 | Job Reference (optional) | # 28928 |
| - | | | | | | 0.400 - E-h 40.0004 Mit-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h-h | 0-+ 0-+ 0 40.00 E4 0004 D |

ID:8BSIWII7uOgu7p2zCnsgREydifw-7yRdLmgRsiJTA6SKGqJOBNC5pm4HHDiUZQGTkIyV3PI

NOTES- (17-20)

- 6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a gualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing. 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Ceiling dead load (5.0 psf) on member(s). 28-29, 29-31, 30-32, 13-32
- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 22-24, 20-22
- 13) Bearing at joint(s) 27 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Attic room checked for L/360 deflection.
- 17) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 18) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 19) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 20) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





Scale = 1:104.9



| | 7-8-8 | 15-2-0 | 25-10-12 | + | | 40-1-12 | | 48-3-8 | | 57-10-4 | 63-0-0 |
|--|--|--|--|--------------------------------|-------------------------------|--|--|--|---|---|--|
| Plate Offsets | (X,Y) [6:0-4 | -8,0-3-0], [11:0-8-0,0-4- | 8], [22:0-2-4,0-6 | -0], [23:0 | -4-12,0-7-8] | , [25:0-2-8,0-3-0], | [26:0-2-0,0-2 | 8-1-12 -8] | | 9-0-12 | 5-1-12 |
| LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDI | f) 20.0 20.0 10.0 0.0 * | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TI | 2-0-0 1.15 1.15 YES PI2014 | CSI. TC BC WB Matr | 0.55 0.71 0.91 ix-SH | DEFL. Vert(LL) Vert(CT) Horz(CT) Attic | in (loc) -0.40 22-23 -0.59 22-23 0.05 17 -0.20 20-22 | l/defl >959 >655 n/a 850 | L/d 240 180 n/a 360 | PLATES MT20 Weight: 260 | GRIP 244/190 3 lb FT = 20% |
| LUMBER- TOP CHORD BOT CHORD WEBS | 2x6 SP No.2 2x10 SP 240 B4: 1-8/16x4 2x4 SP No.3 W9,W2,W4, | 00F 2.0E *Except* I-12/16 SP No.2 I *Except* W5: 2x4 SP No.2, W11: | 2x4 SP SS, W7 | 7: 2x6 SF | ? No.2 | BRACING- TOP CHORD BOT CHORD JOINTS | Structural v Rigid ceilin 6-0-0 oc bra 1 Brace at This truss r | vood shea g directly acing: 2-2 Jt(s): 27 requires b | athing direc applied or 24,23-24. both edges o | tly applied or 6-0-0 c 10-0-0 oc bracing, 1 of the bottom chord I | ic purlins. Except: be sheathed in the |
| REACTIONS. | W3,W2,W4,W3, 2x4 SP No.2, W11.2x4 SP 33, W1.2x6 SP No.2 This it as requires both edges of the bottom chord be sheathed in the room area. REACTIONS. (lb/size) 17=6886/0-3-8 (min. 0-2-2), 20=-1555/0-3-8 (min. 0-1-8), 24=8284/0-3-8 (min. 0-2-2) Max Horz 24=129(LC 14) Max Uplift17=-429(LC 15), 20=-3065(LC 53), 24=-581(LC 14) Max Grav 17=10313(LC 46), 20=368(LC 11), 24=12343(LC 54) | | | | | | | | | | |
| FORCES. (Ib TOP CHORD | FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 2-28=-423/384, 3-28=-390/578, 3-29=-12211/593, 4-29=-12198/594, 4-30=-12185/606, 5-30=-12134/622, 5-6=-12149/679, 6-7=-19560/958, 7-31=-19819/968, 31-32=-19819/968, 8-32=-19819/968, 8-33=-8041/428, 33-34=-8041/428, 9-34=-8041/428, 9-10=-8041/428, 10-11=-8334/444, 11-12=-13325/652, 12-35=-13317/624, 13-35=-13338/605, | | | | | | | | | | |
| BOT CHORD | 13-36=-1021/101, 36-37=-1029/04, 14-37=-1062/92, 14-15=-1076/82, 15-16=-996/54 BOT CHORD 2-38=-412/418, 24-38=-412/418, 23-24=-412/412, 23-39=-645/13723, 39-40=-645/13723, 22-40=-645/13723, 21-22=-876/18822, 21-41=-876/18826, 20-41=-877/18909, 20-42=-671/14990, 42-43=-671/14989, 19-43=-672/14981, 18-19=-670/14940, 18-44=-362/8989, 44-5=-362/8989, 416-17=-17/910 WEBS 15-17=-482/136, 25-27=-2648/164, 26-27=-2648/164, 3-24=-12098/732, 3-23=-610/12582, 6-23=-5903/315, 8-25=-195/4025, 8-26=-8863/532, 12-18=-618/146, 11-18=-5911/349, 13-18=-198/4435, 13-17=-11859/529, 20-26=-6581/423, 10-26=-704/117, 22-25=-263/1274, 7-25=-456/425, 11-20=-867/16293, 11-26=-11443/575, 5-23=-649/162, 6-22=-526/11192, 6-25=-526/11192, 6-25=-526/11192, 6-25=-526/11192, 6-25=-526/11192, 6-25=-526/11 | | | | | | | 1110. | | | |
| NOTES- (21-24) 1) 4-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-90 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-90 oc, 2x6 - 3 rows staggered at 0-5-0 oc. Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc. 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to Fly connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 3) Unbalanced roof live loads have been considered for this design. 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23f; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-6-8 to 5-9-2, Interior(1) 51-5-7 to 56-8-6, Exterior(2E) 56-8-6 to 63-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 WarningVerify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded | | | | | | | | | | | |
| Continued on vertically. Ap of individual v | page 2 be plicability of de veb members or | sign parameters and proper ily. Additional temporary br | incorporation of co acing to ensure sta | mponent is bility duri | s responsibilit | y of building designe n is the responsibility | r – not truss des of the erector. | signer or tr Additiona | uss engineer. Il permanent b | Bracing shown is for la pracing of the overall str | teral support ucture is the |

of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|----------------------------------|----------|
| 21-6088-R01 | R07 | ATTIC | 1 | 4 | Job Reference (optional) | # 28928 |

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NOTES-(21-24)

- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 9) Provide adequate drainage to prevent water ponding. 10) All plates are 6x8 MT20 unless otherwise indicated.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 13) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
- 14) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22
- 15) Bearing at joint(s) 24 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 16) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=429, 20=3065, 24=581.
 17) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 18) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 19) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10665 lb down and 639 lb up at 25-11-8, and 2932 lb down and 176 lb up at 36-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 20) Attic room checked for L/360 deflection.
- 21) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 22) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 23) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 24) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 11-16=-60, 2-22=-20, 25-26=-10, 20-22=-40, 16-20=-20 Concentrated Loads (lb)

Vert: 22=-6365(F) 41=-1750(F)





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC |
|-------------|-------|----------------|-----|-----|---|
| 21-6088-R01 | R08 | PIGGYBACK BASE | 5 | 1 | Job Reference (optional) # 28928 |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:31:01 2021 Page |

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Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC |
|-------------|-------|----------------|-----|-----|---|
| 21-6088-R01 | R09 | PIGGYBACK BASE | 2 | 1 | Job Reference (optional) # 28928 |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:31:02 2021 Page |

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Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, | NC |
|-------------|-------|------------|----------|---------|---|---|
| 21-6088-R01 | R10 | ATTIC | 1 | 4 | Job Reference (optional) | # 28928 |
| | | | D:8BSIWI | 7uOqu7p | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat (2zCnsgREydifw-8Dz3vat5swS3jjFblu6NNzP | Oct 9 19:31:08 2021 Page 2 JcsXmvT?UausrpyV3P1 |

NOTES- (19-22)

- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 6) Unbalanced snow loads have been considered for this design.
- 7) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 8) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 9) Provide adequate drainage to prevent water ponding.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=489, 20=1960, 16=342.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 10665 lb down and 639 lb up at 25-10-12, and 922 lb down and 55 lb up at 36-7-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) Attic room checked for L/360 deflection.
- 19) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 20) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 21) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 22) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 22) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)
- Vert: 1-6=-60, 6-11=-60, 11-16=-60, 2-22=-20, 20-22=-40, 16-20=-20, 25-26=-10 Concentrated Loads (lb)

Vert: 22=-6365(F) 40=-550(F)





Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|---|--------------------------------|
| 21-6088-R01 | R11 | ATTIC | 2 | 1 | Job Reference (optional) | # 28928 |
| | | | | | 9 420 a Eab 12 2021 MiTak Industrian Inc. | Set Oct 0 10:21:12 2021 Dece 2 |

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NOTES- (17-20)

6) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing. 7) Provide adequate drainage to prevent water ponding.

8) All plates are MT20 plates unless otherwise indicated.

9) The Fabrication Tolerance at joint 20 = 16%

10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
- 13) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20.
- 15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 16) Attic room checked for L/360 deflection.
- 17) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 18) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 19) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 20) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VA | RINA, NC |
|-------------|-------|------------|-----|-----|----------------------------------|----------|
| 21-6088-R01 | R12 | GABLE | 1 | 1 | Job Reference (optional) | # 28928 |
| | | | | | Job Reference (optional) | |

ID:8BSIWII7uOgu7p2zCnsgREydifw-nXhbRh0d1czM9ZAuSPKCsVv0fSyMaLimERoVF6yV3Or

NOTES- (20-23)

7) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing. 8) Provide adequate drainage to prevent water ponding.

9) All plates are MT20 plates unless otherwise indicated.

10) All plates are 2x4 MT20 unless otherwise indicated.

11) The Fabrication Tolerance at joint 20 = 16%

12) Gable studs spaced at 2-0-0 oc.

13) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 14)* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 15) Ceiling dead load (5.0 psf) on member(s). 25-27, 26-27
- 16) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22
- 17) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20.
- 18) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

19) Attic room checked for L/360 deflection.

20) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

21) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the

- loads indicated.
- 22) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
- 23) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE | FUQUAY VARINA, NC | |
|---|--|---|---|---|---|--|------------------------------------|
| 21-6088-R01 | R13 | Common | 7 | 1 | lah Deference (| # | 28928 |
| | | <u> </u> | | | 3.430 s Feb 12 2021 MiTek I | Industries, Inc. Sat Oct 9 | 19:31:21 2021 Page 1 |
| | L | 5-9-0 | ID:88SIWII7 | uOgu7p2 14-6-8 | | oumjkou/rkPiSEesN6 | ου ευντοχοιγγν3Οα |
| | | 5-9-0 | | 8-9-8 | | | |
| | | 4x6 = | | | | | Scale = 1:42.0 |
| | | 6.00 12 2 | | | | | |
| | 4x6 = 17 17 17 17 | B TH W3 | | 9 | 10 6x6 = 3 | | |
| | 4 4 4 4 4 4 8 4 8 4 8 4 8 4 8 1 | W2 | B1 | -W4 | WS | 5-9-0 | |
| | × | 5 | | | | | |
| | 3x4 | 4x8 = | | | 3x4 | | |
| | | 5-9-0 | | 14-6-8 | | | |
| | | 5-9-0 | 1 | 8-9-8 | | | |
| LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0 | SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TP | 2-0-0 CSI. 1.15 TC 0.78 1.15 BC 0.57 YES WB 0.18 I2014 Matrix-SH | DEFL. Vert(LL) Vert(CT) Horz(CT) | in (l -0.14 -0.28 0.00 | loc) I/defl L/d 4-5 >999 240 4-5 >600 180 4 n/a n/a | PLATES MT20 Weight: 88 lb | GRIP 244/190 FT = 20% |
| LUMBER- | | | BRACING- | | | 1 | |
| TOP CHORD 2x4 SP No | 0.2 *Except* | | TOP CHORD | Structu | ral wood sheathing directl | ly applied or 4-9-13 c | oc purlins, except |
| BOT CHORD 2x4 SP No WEBS 2x4 SP No W5: 2x4 SI | 9.2 9.3 *Except* P No.2 | | BOT CHORD | Rigid ce MiTek be ins | eiling directly applied or 1 recommends that Stabili talled during truss erectio | 0-0-0 oc bracing. izers and required cro on, in accordance wit | oss bracing h Stabilizer |
| REACTIONS. (Ib/size) Max Horz Max Upliftt Max Grav | 6=570/0-3-8 (min. 0-1-8), 4 6=-77(LC 15) 6=-25(LC 15), 4=-21(LC 15 6=631(LC 20), 4=637(LC 2 | =570/0-3-8 (min. 0-1-8)) 1) | | Install | ation guide. | | |
| FORCES. (lb) - Max. Cor TOP CHORD 1-7=-452 1-6=-592 WEBS 1-5=-65/4 | mp./Max. Ten All forces 2 /100, 7-8=-436/111, 2-8=-3 /143, 3-4=-555/136 433, 3-5=0/255 | 50 (lb) or less except when shown. 47/125, 2-9=-390/104, 9-10=-397/8 | 5, 3-10=-538/81, | | | | |
| NOTES- (9-12) 1) Unbalanced roof live lo 2) Wind: ASCE 7-16; Vult (envelope) gable end z for members and force: 3) TCLL: ASCE 7-16; Pr= Cat B; Partially Exp.; C 4) Unbalanced snow load 5) This truss has been de 6) * This truss has been de 6) * This truss has been de 6) * This truss is designed is standard ANSI/TPI 1. 9) Graphical bracing repro- the member must be be 10) Bearing symbols are of structural design of th 11) Web bracing shown is Installing, Restraining 12) SEE BCSI-B3 SUMM MINIMUM BRACING MINIMUM BRACING | ads have been considered =115mph (3-second gust) ' cone and C-C Exterior(2E) (s & MWFRS for reactions s :20.0 psf (roof LL: Lum DOL :e=1.0; Cs=1.00; Ct=1.10 s have been considered for signed for a 10.0 psf bottor lesigned for a live load of 3 ord and any other members ord and any other members in accordance with the 2011 esentation does not depict for raced. only graphical representation to for lateral support of indivi- s for lateral support of indivi- & Bracing of Metal Plate CA ARY SHEET- PERMANEN REQUIREMENTS OF TOP ES ALWAYS CONSULT | for this design. /asd=91mph; TCDL=5.0psf; BCDL= -1-12 to 4-11-6, Exterior(2R) 4-11-6 hown; Lumber DOL=1.60 plate grip =1.15 Plate DOL=1.15); Pf=20.0 ps this design. n chord live load nonconcurrent with 0.0psf on the bottom chord in all are s. s to bearing plate capable of withsta 3 International Residential Code sec he size, type or the orientation of th uns of a possible bearing condition. I indicated. dual web members only. Refer to B onnected Wood Trusses for additio T RESTRAING/BRACING OF CHOD CHORD, BOTTOM CHORD, AND HE PRO.IECT ARCHITECT OP EN | =5.0psf; h=23ft; Ca to 9-7-2, Exterior DOL=1.60 if (Lum DOL=1.15 and other live loa as where a rectar and ing 100 lb uplift tions R502.11.1 a e brace on the me Bearing symbols a CSI - Guide to Go nal bracing guidel RDS & WEB MEM WEB PLANES. If GINEER EOR AD | at. II; Exp (2E) 9-7- Plate DC ads. ngle 3-6-(t at joint(and R802 ember. Sy are not cc od Practi ines, incl IBERS F N ADDIT | b B; Enclosed; MWFRS 2 to 14-4-12 zone;C-C c) L=1.15); Is=1.0; Rough c) tall by 1-0-0 wide will fit b) 6, 4. c) 10.2 and referenced ymbol only indicates that c) modered in the c) for Handling, uding diagonal bracing, OR RECOMMENDED ION TO THESE L) BRACING | SEAL 28147 | Super- |
| CONSIDERATIONS. | | | UNELITI ON AD | 2011 | | Attente and the | |
| LOAD CASE(S) Standard | 1 | | | | | 10/9/202 | 1 |
| Warning ! | parameters and read notes be | efore use. This design is based only upon | parameters shown, a | nd is for a | n individual building compone | ent to be installed and lo | aded |
| of individual web members | only. Additional temporary bra | cing to ensure stability during construction | is the responsibility | of the erec | ctor. Additional permanent br | racing of the overall stru | cture is the |

responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC |
|-------------|-------|------------|-----|-----|---|
| 21-6088-R01 | R14 | Half Hip | 7 | 1 | Job Reference (optional) # 28928 |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:31:23 2021 Page 2 |

ID:8BSIWII7uOgu7p2zCnsgREydifw-C6Nj3i3VJXLx00uT8YtvU7XYQf4?no?CwP09rRyV3Oo

8) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 9) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

11) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





- Graphical bracing representation does not depict the size, type of the state that the member must be braced. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated. Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional bracing guidelines, including diagonal bracing Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for Additional Bracing (Bracing Bracing Br 13) MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOADIDASE(S): By and by an and the second se vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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10/9/2021



| Job | Truss | Truss Type | Qty | Ply | 49786-0218 WOODGROVE FUQUAY VARINA, NC |
|-------------|-------|------------|-----|-----|---|
| 21-6088-R01 | VT02 | Valley | 1 | 1 | Job Reference (optional) # 28928 |
| | | | | | 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 9 19:31:26 2021 Page |

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Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard





White support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.





LOAD CASE(S) Standard

Warning !-- Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

10/9/2021

- 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing 12) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECOMMENDED
- MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS

10/9/2021

LOAD CASE(S) Standard

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

2) Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph: TCDL=5.0psf: BCDL=5.0psf: h=23ft: Cat. II: Exp B: Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

4) Gable requires continuous bottom chord bearing.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1

9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the

Web pracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES IN ADDITION CONSIDERATIONS 12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard

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