

|                 |              |                     |          |          |   |
|-----------------|--------------|---------------------|----------|----------|---|
| Job<br>72503332 | Truss<br>DG1 | Truss Type<br>Truss | Qty<br>9 | Ply<br>1 | MUNGO HOMES-2 CAR DETACHED GRGE<br>Job Reference (optional)<br>43 CBR |
|-----------------|--------------|---------------------|----------|----------|---|

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Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Tue Feb 04 15:28:39

Page: 1

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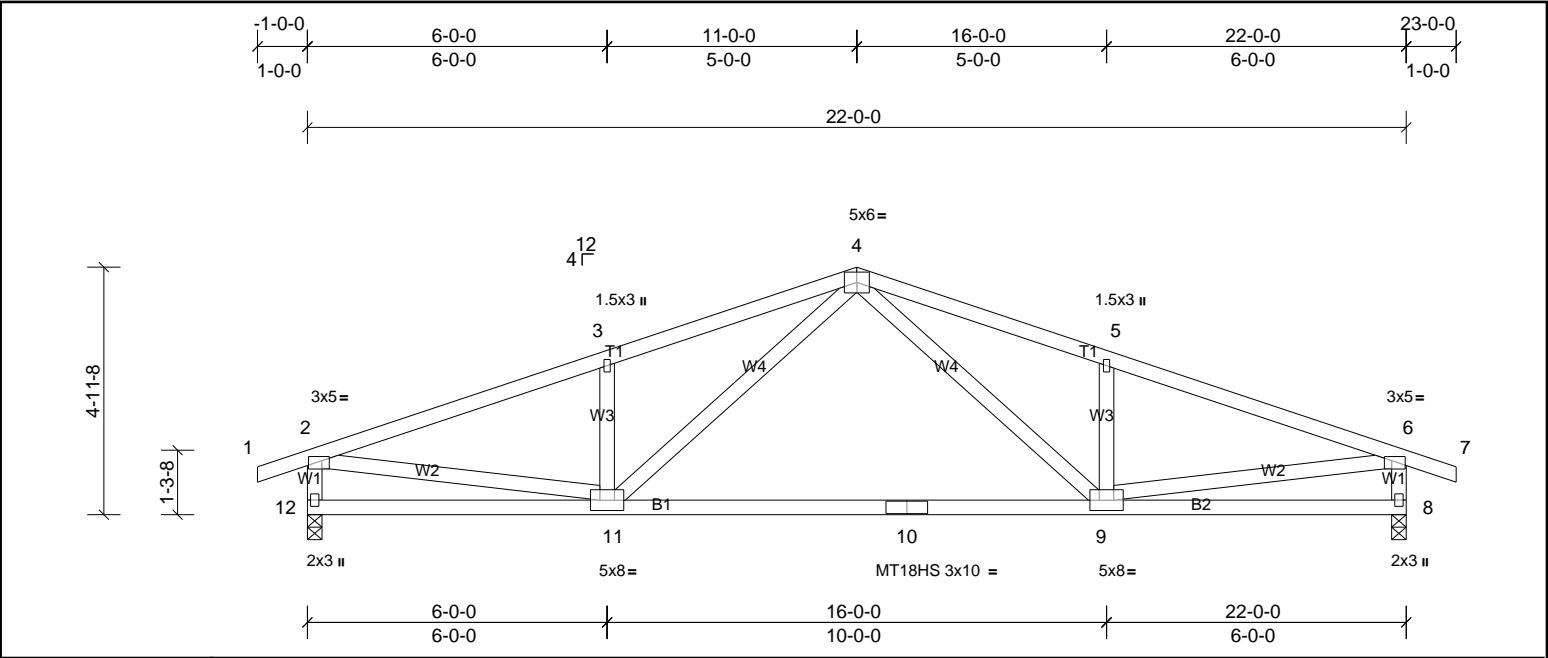


Plate Offsets (X, Y): [2:0-1-12,0-1-0], [6:0-1-12,0-1-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI        | DEFL | in       | (loc) | I/defl | L/d  | PLATES | GRIP                    |
|-------------|-------|-----------------|-----------------|------------|------|----------|-------|--------|------|--------|-------------------------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC         | 0.50 | Vert(LL) | -0.21 | 9-11   | >999 | 240    | MT20 244/190            |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC         | 0.76 | Vert(CT) | -0.44 | 9-11   | >588 | 180    | MT18HS 244/190          |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB         | 0.49 | Horz(CT) | 0.02  | 8      | n/a  | n/a    |                         |
| BCDL        | 10.0  | Code            | IRC2015/TPI2014 | Matrix-MSH |      |          |       |        |      |        | Weight: 117 lb FT = 20% |

| LUMBER    |             | BRACING   |  |
|-----------|-------------|-----------|--|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 4-6-10 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 10-0-0 oc bracing.                                   |
| WEBS      | 2x4 SP No.3 |           |  |

| REACTIONS | (lb/size)  | 8=937/0-3-8, (min. 0-1-8), 12=937/0-3-8, (min. 0-1-8) |
|-----------|------------|---|
|           | Max Horiz  | 12=35 (LC 14)   |
|           | Max Uplift | 8=186 (LC 7), 12=186 (LC 6)                           |

| FORCES    | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.            |
|-----------|---|
| TOP CHORD | 2-3=-1451/373, 3-4=-1434/452, 4-5=-1434/452, 5-6=-1451/373, 2-12=-893/313, 6-8=-893/313 |
| BOT CHORD | 10-11=-156/993, 9-10=-156/993   |
| WEBS      | 4-9=-107/501, 5-9=-342/214, 4-11=-107/501, 3-11=-342/214, 2-11=-207/1187, 6-9=-207/1187 |

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint 8 and 186 lb uplift at joint 12.
  - 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.



|          |       |            |     |     |                                 |
|----------|-------|------------|-----|-----|---------------------------------|
| Job      | Truss | Truss Type | Qty | Ply | MUNGO HOMES-2 CAR DETACHED GRGE |
| 72503332 | DG1G  | Truss      | 2   | 1   | Job Reference (optional)        |

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Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Tue Feb 04 15:28:40

Page: 1

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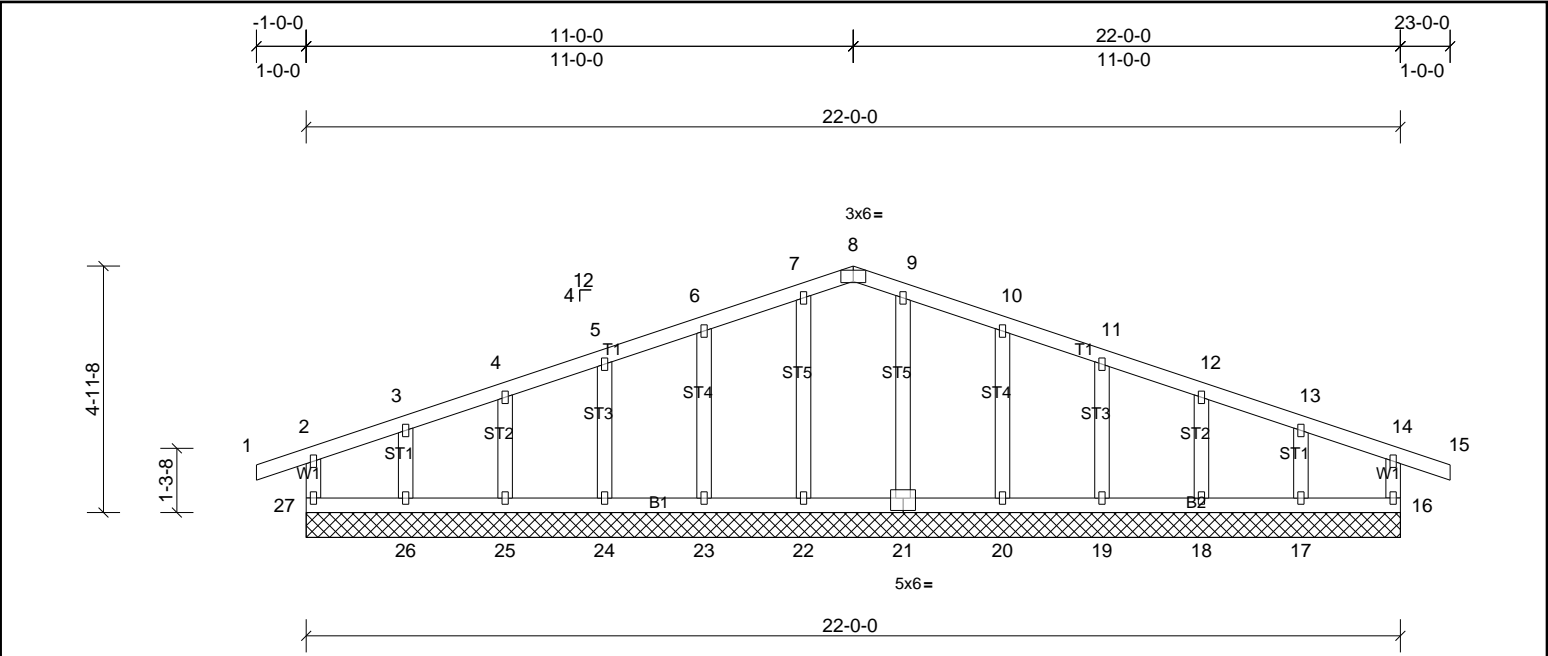


Plate Offsets (X, Y): [8:0-3-0,Edge], [21:0-3-0,0-3-0]

| Loading     | (psf) | Spacing         | 2-0-0           | CSI       | DEFL | in       | (loc) | l/defl | L/d | PLATES         | GRIP     |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0  | Plate Grip DOL  | 1.15            | TC        | 0.09 | Vert(LL) | n/a   | -      | n/a | 999            | MT20     |
| TCDL        | 10.0  | Lumber DOL      | 1.15            | BC        | 0.03 | Vert(CT) | n/a   | -      | n/a | 999            | 244/190  |
| BCLL        | 0.0*  | Rep Stress Incr | YES             | WB        | 0.05 | Horz(CT) | 0.00  | 16     | n/a | n/a            |          |
| BCDL        | 10.0  | Code            | IRC2015/TPI2014 | Matrix-MR |      |          |       |        |     |                |          |
|             |       |                 |                 |           |      |          |       |        |     | Weight: 114 lb | FT = 20% |

|               |             |                |   |
|---------------|-------------|----------------|---|
| <b>LUMBER</b> |             | <b>BRACING</b> |   |
| TOP CHORD     | 2x4 SP No.2 | TOP CHORD      | Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals. |
| BOT CHORD     | 2x4 SP No.2 | BOT CHORD      | Rigid ceiling directly applied or 6'-0" oc bracing.                                   |
| WEBS          | 2x4 SP No.3 |                |   |
| OTHERS        | 2x4 SP No.3 |                |   |

**REACTIONS** All bearings 22'-0".  
(lb) - Max Horiz 27=35 (LC 10)  
Max Uplift All uplift 100 (lb) or less at joint(s) 16, 17, 18, 19, 20, 23, 24, 25, 26, 27  
Max Grav All reactions 250 (lb) or less at joint(s) 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27

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

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only.
  - 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 2'-0" oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0" tall by 2'-0" wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 16, 23, 24, 25, 26, 20, 19, 18, 17.
  - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



This design is based 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 the Building Designer. Building Designer shall verify all design information on this sheet for conformance with conditions and requirements of the specific building and governing codes and ordinances. Building Designer accepts responsibility for the correctness or accuracy of the design information as it may relate to a specific building. Certification is valid only when truss is fabricated by a UFPI plant. Bracing shown is for lateral support of truss members only and does not replace erection and permanent bracing. Refer to Building Component Safety Information (BCSI) for general guidance regarding storage, erection and bracing available from SBCA and Truss Plate Institute.

