| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 21-010094T | A01 | Common | 17 | 1 | Job Reference (optional) |

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

Run: 8.420 s Dec 1 2020 Print: 8.420 s Dec 1 2020 MiTek Industries, Inc. Tue Jan 5 09:54:27 2021 Page 1
ID:x1HO2N3JAD1hDswR1IMPTYzyQuD-0VkJwqGX31_G5IvoOCXx51RRb0C2F9E?ewutcVzyQkw

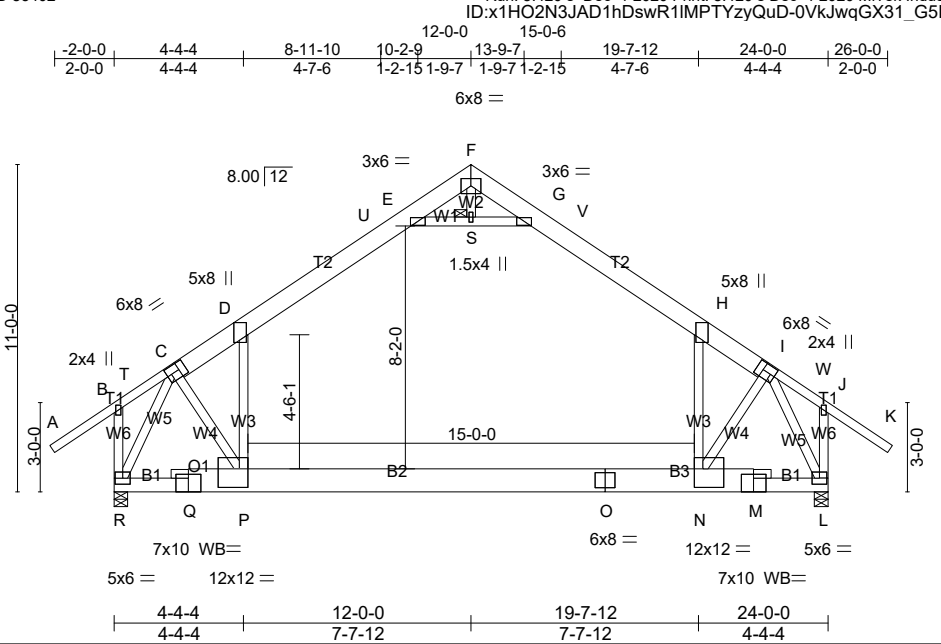


Plate Offsets (X,Y)-- [C:0-2-12,0-3-0], [D:0-7-4,Edge], [H:0-7-4,Edge], [I:0-2-12,0-3-0], [N:0-3-8,0-7-8], [P:0-3-8,0-7-8]

| **LOADING** (psf) | | **SPACING-** 2-0-0 | **CSI.** | | **DEFL.** | in | (loc) | l/defl | L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 30.0 | Plate Grip DOL 1.15 | TC | 0.59 | Vert(LL) | -0.41 | N-P | >702 | 360 | MT20 | 220/195 |
| TCDL | 15.0 | Lumber DOL 1.15 | BC | 0.70 | Vert(CT) | -0.62 | N-P | >456 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr YES | WB | 0.75 | Horz(CT) | 0.03 | L | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-SH | | Wind(LL) | -0.04 | N-P | >999 | 240 | Weight: 208 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x8 DF 1950F 1.7E or 2x8 DF SS *Except*
T1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x6 DF 1800F 1.6E or 2x6 DF SS *Except*
B3,B2: 2x10 DF 1950F 1.7E or 2x10 DF SS
WEBS 2x4 DF Stud/Std *Except*
W3,W1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

**BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-5-2 oc bracing.
JOINTS 1 Brace at Jt(s): S

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

**REACTIONS.** (lb/size) L=1734/0-5-8 (min. 0-2-2), R=1734/0-5-8 (min. 0-2-2)
Max Horz R=-200(LC 10)
Max Uplift L=-70(LC 12), R=-70(LC 12)
Max Grav L=2016(LC 19), R=2016(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-1860/0, D-U=-1460/98, E-U=-1227/133, E-F=0/611, F-G=0/611, G-V=-1229/132, H-V=-1462/97, H-I=-1864/0, B-R=-394/252, J-L=-394/252
BOT CHORD Q-R=0/1081, P-Q=0/1103, O-P=0/1360, N-O=0/1360, M-N=0/1033, L-M=0/1002
WEBS H-N=-62/997, D-P=-62/997, E-S=-1937/101, G-S=-1937/101, C-P=0/701, I-N=0/702, C-R=-2270/0, I-L=-2274/0

**NOTES-**

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=44ft; L=28ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -2-1-0 to 0-11-0, Interior(1) 0-11-0 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 26-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Ceiling dead load (5.0 psf) on member(s). D-E, G-H, E-S, G-S
6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. N-P
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) L, R.
8) 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.
9) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 21-010094T | A02 | Common | 2 | 1 | Job Reference (optional) |

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

Run: 8.420 s Dec 1 2020 Print: 8.420 s Dec 1 2020 MiTek Industries, Inc. Tue Jan 5 09:54:28 2021 Page 1
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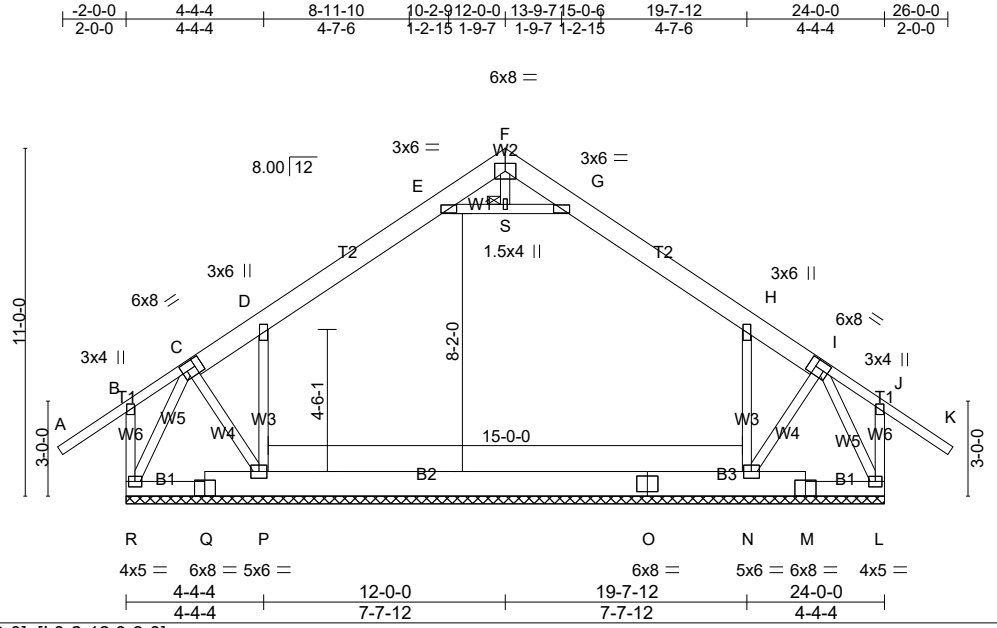


Plate Offsets (X,Y)-- [C:0-2-12,0-3-0], [I:0-2-12,0-3-0]

| **LOADING** (psf) | | **SPACING-** 2-0-0 | **CSI.** | **DEFL.** in (loc) l/defl L/d | **PLATES** | **GRIP** |
|---|---|---|---|---|---|---|
| TCLL 30.0 | | Plate Grip DOL 1.15 | TC 0.33 | Vert(LL) -0.05 K n/r 120 | MT20 | 220/195 |
| TCDL 15.0 | | Lumber DOL 1.15 | BC 0.24 | Vert(CT) -0.09 J-K n/r 120 | | |
| BCLL 0.0 | * | Rep Stress Incr YES | WB 0.31 | Horz(CT) 0.01 L n/a n/a | | |
| BCDL 10.0 | | Code IRC2015/TPI2014 | Matrix-SH | | Weight: 206 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x8 DF 1950F 1.7E or 2x8 DF SS *Except*
T1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x6 DF 1800F 1.6E or 2x6 DF SS *Except*
B3,B2: 2x10 DF 1950F 1.7E or 2x10 DF SS
WEBS 2x4 DF Stud/Std *Except*
W3,W1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): S

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

**REACTIONS.** All bearings 24-0-0.
(lb) - Max Horz R=-200(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) N, P except L=-114(LC 12), R=-114(LC 12)
Max Grav All reactions 250 lb or less at joint(s) except N=878(LC 19), P=888(LC 18), L=1151(LC 1), R=1151(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD C-D=-748/67, D-E=-980/206, E-F=-279/26, F-G=-279/26, G-H=-980/206, H-I=-748/66, B-R=-393/252, J-L=-393/252
BOT CHORD Q-R=0/425, P-Q=0/444, O-P=0/666, N-O=0/666, M-N=0/401, L-M=0/388
WEBS H-N=-681/186, D-P=-681/187, E-S=-489/241, G-S=-489/241, C-P=0/555, I-N=0/555, C-R=-904/0, I-L=-904/0

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=44ft; L=28ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -2-1-0 to 0-11-0, Exterior(2) 0-11-0 to 12-0-0, Corner(3) 12-0-0 to 15-0-0, Exterior(2) 15-0-0 to 26-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Ceiling dead load (5.0 psf) on member(s). D-E, G-H, E-S, G-S
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) N, P except (jt=lb) L=114, R=114.
8) 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.
9) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 21-010094T | A03 | COMMON | 1 | 2 | Job Reference (optional) |

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

Run: 8.420 s Dec 1 2020 Print: 8.420 s Dec 1 2020 MiTek Industries, Inc. Tue Jan 5 09:54:29 2021 Page 1
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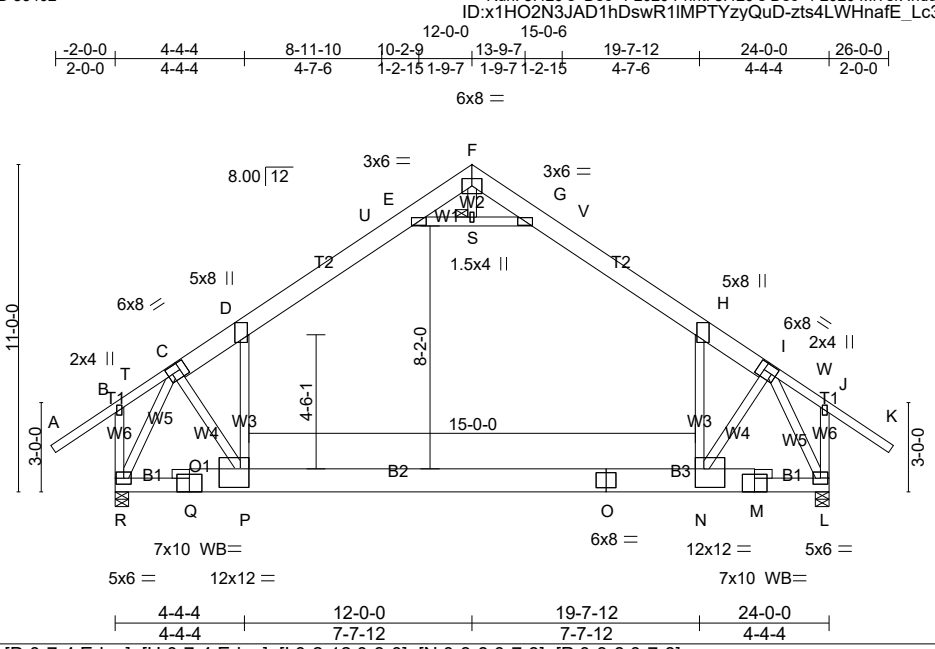


Plate Offsets (X,Y)-- [C:0-2-12,0-3-0], [D:0-7-4,Edge], [H:0-7-4,Edge], [I:0-2-12,0-3-0], [N:0-3-8,0-7-8], [P:0-3-8,0-7-8]

| LOADING (psf) | | SPACING- 4-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 30.0 | Plate Grip DOL 1.15 | TC 0.69 | Vert(LL) | -0.41 | N-P | >702 | 360 | MT20 | 220/195 |
| TCDL | 15.0 | Lumber DOL 1.15 | BC 0.77 | Vert(CT) | -0.62 | N-P | >456 | 240 | | |
| BCLL | 0.0 * | Rep Stress Incr NO | WB 0.50 | Horz(CT) | 0.03 | L | n/a | n/a | | |
| BCDL | 10.0 | Code IRC2015/TPI2014 | Matrix-SH | Wind(LL) | -0.04 | N-P | >999 | 240 | Weight: 415 lb | FT = 20% |

**LUMBER-**

TOP CHORD 2x8 DF 1950F 1.7E or 2x8 DF SS *Except*
T1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x6 DF 1800F 1.6E or 2x6 DF SS *Except*
B3,B2: 2x10 DF 1950F 1.7E or 2x10 DF SS
WEBS 2x4 DF Stud/Std *Except*
W3,W1: 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

**BRACING-**

TOP CHORD 6-0-0 oc bracing, except end verticals
(Switched from sheeted: Spacing > 2-0-0). Except:
6-0-0 oc bracing: B-F, F-J
10-0-0 oc bracing: A-B, J-K
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): F, S, B, J

**REACTIONS.** (lb/size) L=3468/0-5-8 (min. 0-2-2), R=3468/0-5-8 (min. 0-2-2)
Max Horz R=-400(LC 10)
Max Uplift L=-139(LC 12), R=-139(LC 12)
Max Grav L=4032(LC 19), R=4032(LC 18)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD B-T=-200/268, C-T=-176/284, C-D=-3720/0, D-U=-2920/195, E-U=-2454/266, E-F=0/1222, F-G=0/1222, G-V=-2458/265, H-V=-2924/194, H-I=-3727/0, I-W=-176/284, J-W=-200/268, B-R=-789/505, J-L=-789/505
BOT CHORD Q-R=0/2163, P-Q=0/2207, O-P=0/2720, N-O=0/2720, M-N=0/2067, L-M=0/2004
WEBS H-N=-124/1994, D-P=-124/1994, E-S=-3875/202, G-S=-3875/202, F-S=0/481, C-P=0/1402, I-N=0/1404, C-R=-4539/0, I-L=-4549/0

**NOTES-**

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.
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 ply 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 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=4.2psf; h=15ft; B=44ft; L=28ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -2-1-0 to 0-11-0, Interior(1) 0-11-0 to 12-0-0, Exterior(2) 12-0-0 to 15-0-0, Interior(1) 15-0-0 to 26-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). D-E, G-H, E-S, G-S
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. N-P
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) L=139, R=139.
10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
12) Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard

| Job | Truss | Truss Type | Qty | Ply | |
|---|---|---|---|---|---|
| 21-010094T | V11 | GABLE | 1 | 1 | Job Reference (optional) |

BMC WEST (IDAHO FALLS), IDAHO FALLS, ID 83402

Run: 8.420 s Dec 1 2020 Print: 8.420 s Dec 1 2020 MiTek Industries, Inc. Tue Jan 5 09:54:30 2021 Page 1
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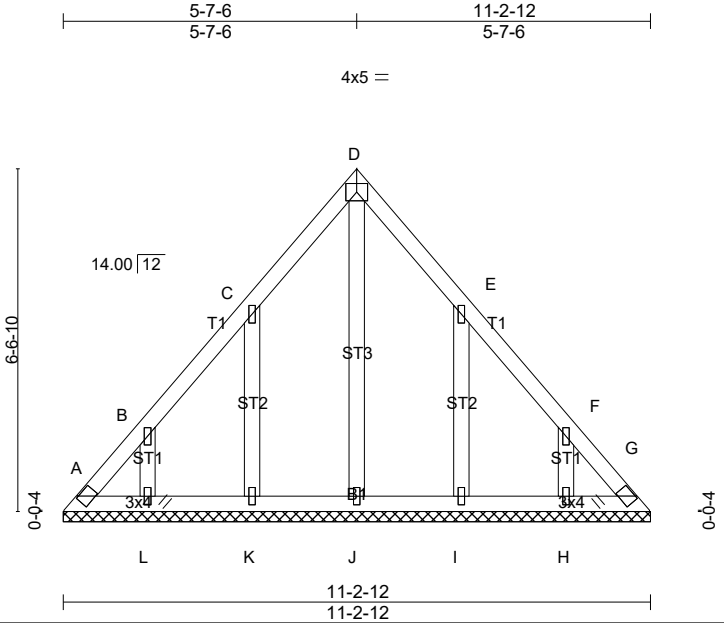


| LOADING (psf) | | SPACING- | 2-0-0 | CSI. | | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCLL | 30.0 | Plate Grip DOL | 1.15 | TC | 0.05 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 220/195 |
| TCDL | 7.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.08 | Horz(CT) | 0.00 | G | n/a | n/a | | |
| BCDL | 7.0 | Code IRC2015/TPI2014 | | Matrix-SH | | | | | | | Weight: 59 lb | FT = 20% |

**LUMBER-**
TOP CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
BOT CHORD 2x4 DF 1800F 1.6E or 2x4 DF No.1&Btr or 2x4 DF-N 1800F 1.6E
OTHERS 2x4 DF Stud/Std

**BRACING-**
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

**REACTIONS.** All bearings 11-2-12.
(lb) - Max Horz A=169(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) A, G except K=-122(LC 12), L=-109(LC 12), I=-122(LC 12), H=-109(LC 12)
Max Grav All reactions 250 lb or less at joint(s) A, G, J, K, L, I, H

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

**NOTES-**
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=115mph Vasd=91mph; TCDL=4.2psf; BCDL=4.2psf; h=25ft; B=45ft; L=25ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-3-13 to 3-7-6, Exterior(2) 3-7-6 to 5-7-6, Corner(3) 5-7-6 to 8-7-6, Exterior(2) 8-7-6 to 10-10-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
3) All plates are 1.5x4 MT20 unless otherwise indicated.
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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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) A, G except (jt=lb) K=122, L=109, I=122, H=109.
8) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

**LOAD CASE(S)** Standard