

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 237_2723_A

KB Home 237.2723.A Rev

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by 84 Components - #2383.

Pages or sheets covered by this seal: I49418569 thru I49418586

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

North Carolina COA: C-0844



December 28,2021

Sevier, Scott

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

Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418569 COMMON 237 2723 A Α 11 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:06 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-aqTCOYYG7gCYyAWhKYsxJY3JbldHTLa?lBhXxmy66xd -0-10₇8 19-6-0 25-10-7 32-2-13 38-7-8 6-9-3 6-4-7 6-4-7 6-4-7 6-4-7 6-4-11 Scale = 1:67.8 6x6 = 6 6.00 12 19 20 21 3x4 / 3x4 ≥ 5 3x6 / 3x6 > 10-5-0 1.5x4 📏 1.5x4 // 3 3x4 ≥ 22 10 3x4 ≥ 16 23 15 24 25 13 26 12 4x6 =14 6x6 || 4x4 = 4x8 = 4x8 = 4x4 = 4x8 =

19-6-0 29-0-10 38-7-8 9-11-6 9-6-14 Plate Offsets (X,Y)--[2:0-0-0,0-0-13], [11:0-3-13,0-0-1]

LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.96 Vert(LL) -0.20 12-14 >999 240 MT20 197/144 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.84 Vert(CT) -0.35 12-14 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.58 Horz(CT) 0.09 n/a n/a 11 **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 238 lb FT = 20%Matrix-S BCDL 10.0

BRACING-

WEBS

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

1 Row at midpt

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

7-14, 5-14

LUMBER-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*

8-11: 2x4 SP No.1 **BOT CHORD** 2x6 SP No.2 2x4 SP No.3

WEBS SLIDER Right 2x4 SP No.3 3-6-5

REACTIONS. (size) 2=0-3-8, 11=Mechanical

Max Horz 2=147(LC 20)

Max Uplift 2=-102(LC 16), 11=-84(LC 17) Max Grav 2=1746(LC 3), 11=1694(LC 3)

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

TOP CHORD 2-3=-2994/176, 3-5=-2788/167, 5-6=-1966/201, 6-7=-1969/203, 7-9=-2696/172,

9-11=-2898/175

BOT CHORD 2-16=-222/2558, 14-16=-102/2171, 12-14=-6/2154, 11-12=-75/2457 6-14=-53/1405, 7-14=-697/192, 7-12=-4/535, 5-14=-721/192, 5-16=-8/621, **WEBS**

3-16=-276/172

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-11-14, Interior(1) 2-11-14 to 19-6-0, Exterior(2R) 19-6-0 to 23-4-6, Interior(1) 23-4-6 to 38-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) 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.



December 28,2021

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

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

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



Job Truss Truss Type Qty KB Home 237.2723.A Rev 149418570 237 2723 A Α1 COMMON 2 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:07 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-201acuZuuzKPZJ5tuFNAslbUG8zPCom9_rQ5TCy66xc

25-10-7

6-4-7

Vert(LL)

Vert(CT)

BRACING-

WEBS

TOP CHORD

BOT CHORD

Horz(CT)

-0.20 12-14

-0.35 12-14

1 Row at midpt

10

0.10

>999

>999

n/a

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

240

180

n/a

Structural wood sheathing directly applied or 2-6-11 oc purlins

7-14, 5-14

MT20

Weight: 235 lb

197/144

FT = 20%

32-2-13

6-4-7

19-6-0

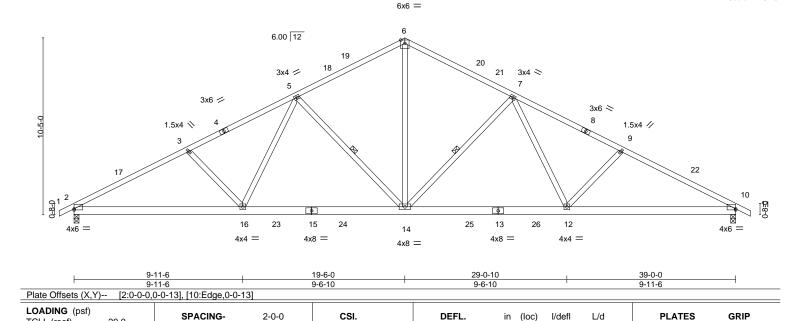
6-4-7

0-10-8

Scale = 1:67.9

39-0-0

6-9-3



LUMBER-

TCLL (roof)

TCDL

BCLL

BCDL

Snow (Pf/Pg)

-0-10₇8

6-9-3

6-4-7

2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD

20.0

10.0

10.0

0.0

11.6/15.0

BOT CHORD 2x6 SP No.2 WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=145(LC 16)

Max Uplift 2=-102(LC 16), 10=-102(LC 17) Max Grav 2=1755(LC 3), 10=1755(LC 3)

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

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

TC

BC

WB

Matrix-S

0.97

0.84

0.59

TOP CHORD 2-3=-3014/176, 3-5=-2808/168, 5-6=-1985/202, 6-7=-1985/202, 7-9=-2808/168,

9-10=-3014/176

BOT CHORD 2-16=-219/2575, 14-16=-99/2189, 12-14=-4/2189, 10-12=-74/2575

WEBS 6-14=-51/1413, 7-14=-721/193, 7-12=-9/623, 9-12=-275/172, 5-14=-721/192,

5-16=-8/623, 3-16=-275/172

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-0-5, Interior(1) 3-0-5 to 19-6-0, Exterior(2R) 19-6-0 to 23-4-13, Interior(1) 23-4-13 to 39-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 9) 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.



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

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

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



Job Truss Truss Type Qty KB Home 237.2723.A Rev 149418571 **ROOF TRUSS** 237 2723 A A1A 5 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:08 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-WCbzpDaWfHSGBTg3RzuPPz8hqYJIxILIDVAe0fy66xb 39-10₋8 0-10-8 19-6-0 24-0-0 32-2-13 39-0-0

4-6-0

4-6-0

Scale = 1:73.9 6x6 =

Structural wood sheathing directly applied.

1 Row at midpt

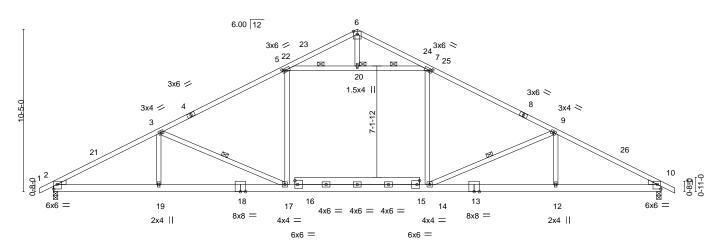
1 Brace at Jt(s): 20

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

9-14, 3-17, 5-20, 7-20

6-9-3

8-2-13



24-0-0 6-9-3 8-2-13 6-9-3 9-0-0 8-2-13 Plate Offsets (X,Y)--[2:0-2-9,0-3-8], [5:0-2-0,0-1-8], [7:0-2-0,0-1-8], [10:0-2-9,0-3-8] LOADING (psf) SPACING-2-0-0 **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.45 17-19 >999 240 197/144 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.86 Vert(CT) -0.58 17-19 >795 180 10.0 Rep Stress Incr YES WB 0.44 Horz(CT) 0.09 10 n/a n/a 0.0 Code IRC2018/TPI2014 -0.33 14-17 324 360 Weight: 254 lb FT = 20%Matrix-S Attic

BRACING-

WEBS

JOINTS

TOP CHORD

BOT CHORD

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD** 2x6 SP No.2 *Except*

10.0

13-18: 2x6 SP DSS

2x4 SP No.3 WEBS

-0-10-8 0-10-8

6-9-3

8-2-13

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 10=0-3-8

Max Horz 2=145(LC 16)

Max Uplift 2=-74(LC 16), 10=-74(LC 17)

Max Grav 2=1723(LC 3), 10=1723(LC 3)

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

TOP CHORD 2-3=-3120/125, 3-5=-2616/120, 5-6=-357/49, 6-7=-357/49, 7-9=-2616/120,

9-10=-3120/126

BOT CHORD 2-19=-178/2672, 17-19=-178/2672, 14-17=0/2272, 12-14=-34/2670, 10-12=-34/2670 WFBS 9-14=-769/239, 3-17=-769/238, 5-20=-2054/142, 7-20=-2054/142, 3-19=0/322,

9-12=0/322, 5-17=0/688, 7-14=0/688

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed: MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-0-5, Interior(1) 3-0-5 to 19-6-0, Exterior(2R) 19-6-0 to 23-4-13, Interior(1) 23-4-13 to 39-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Ceiling dead load (5.0 psf) on member(s). 5-20, 7-20
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 14-17
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- 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.
- 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



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Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418572 237 2723 A A1E COMMON SUPPORTED GAB Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:11 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334,

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-xnH5SFcPyCrr2xOe75S60bmNKmXC8jXkvSOlczy66xY -0-10-8 0-10-8 19-6-0 19-6-0

> Scale = 1:73.3 6x6 =

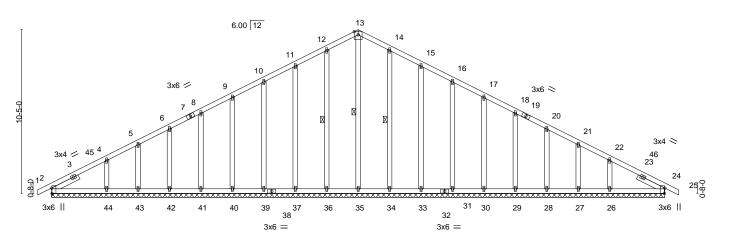


Plate Offsets (X,Y)-- [2:0-4-1,Edge], [24:0-4-1,Edge] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.13 Vert(LL) 0.00 25 120 197/144 n/r MT20 11.6/15.0 Snow (Pf/Pg) Lumber DOL 1.15 BC 0.08 Vert(CT) 0.00 25 n/r 120 TCDL 10.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.01 24 n/a n/a **BCLL** 0.0 *

39-0-0

LUMBER-BRACING-

Code IRC2018/TPI2014

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. 2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.3 WEBS 13-35, 12-36, 14-34 1 Row at midpt

Matrix-S

SLIDER Left 2x4 SP No.3 1-10-12, Right 2x4 SP No.3 1-10-12

REACTIONS. All bearings 39-0-0. Max Horz 2=145(LC 20) (lb) -

10.0

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27,

All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, Max Grav

27, 24 except 44=261(LC 36), 26=261(LC 37)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 11-12=-121/251, 12-13=-138/287, 13-14=-138/287, 14-15=-121/251

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-0-5. Exterior(2N) 3-0-5 to 19-6-0. Corner(3R) 19-6-0 to 23-6-0. Exterior(2N) 23-6-0 to 39-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) n/a
- 13) 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.



Weight: 274 lb

FT = 20%

December 28,2021

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Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418573 237 2723 A ΑE Common Supported Gable Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:13 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334,

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-tAOssxefTp5ZHEY1EWUa50rkMZCncd11MmtPhsy66xW -0-10-8 0-10-8 19-6-0 19-1-8

> Scale = 1:72.4 6x6 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

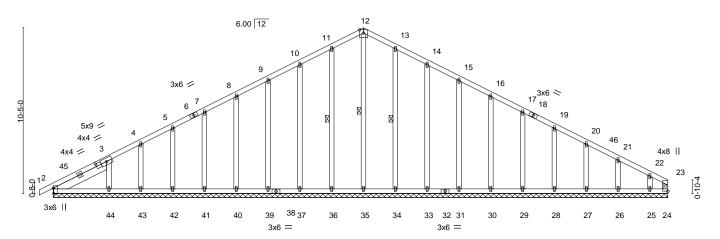


Plate Offsets (X,Y) [2:0-4-1,Edge], [2:3-0-8,0-2-0]								
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.09 BC 0.08 WB 0.15	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 1 n/r 120 Vert(CT) 0.00 1 n/r 120 Horz(CT) 0.01 24 n/a n/a	PLATES GRIP MT20 197/144				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 277 lb FT = 20%				

LUMBER-BRACING-

TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 TOP CHORD

2x4 SP No.2 or 2x4 SPF No.2 **BOT CHORD** except end verticals. WEBS 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.3 **OTHERS WEBS** 12-35, 11-36, 13-34 1 Row at midpt SLIDER Left 2x6 SP No.2 3-9-4

REACTIONS. All bearings 38-7-8.

Max Horz 2=148(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 29, 28, 27,

26 except 25=-109(LC 17)

All reactions 250 lb or less at joint(s) 24, 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, Max Grav

29, 28, 27, 26, 25

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

TOP CHORD 11-12=-129/275, 12-13=-129/275

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-11-14, Exterior(2N) 2-11-14 to 19-6-0, Corner(3R) 19-6-0 to 23-6-0, Exterior(2N) 23-6-0 to 38-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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 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.
- 12) n/a
- 13) 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.



Job Truss Truss Type Qty KB Home 237.2723.A Rev 149418574 237_2723_A **B1** Common Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:14 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-LMyE4HfHE7DQvO7DoD?peEOqKzQFL2EBbQdyDIy66xV 16-6-8 22-3-0 23-1-8 0-10-8 5-5-0 5-5-0 5-8-8 Scale = 1:50.1 4x6 || 5 8.00 12 1.5x4 \\ 1.5x4 // 4x4 // 4x4 <> 4x4 <> 12 15 11 16 10 4x8 || 4x8 || 3x4 = Plate Offsets (X,Y)--[2:0-5-13,Edge], [8:0-5-13,Edge] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.10 10-12 >999 240 MT20 197/144 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.64 Vert(CT) -0.16 2-12 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.22 Horz(CT) 0.03 8 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Weight: 131 lb

BRACING-

TOP CHORD

BOT CHORD

Matrix-S

LUMBER-

BCDL

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

10.0

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 3-5-9, Right 2x6 SP No.2 3-5-9

REACTIONS. (size) 2=0-3-8, 8=0-3-8

Max Horz 2=-169(LC 12)

Max Uplift 2=-54(LC 14), 8=-54(LC 15) Max Grav 2=1054(LC 26), 8=1054(LC 27)

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

2-4=-1305/85, 4-5=-1198/147, 5-6=-1198/147, 6-8=-1305/85 TOP CHORD

BOT CHORD 2-12=-88/1104. 10-12=0/760. 8-10=0/997

WEBS 5-10=-92/585, 6-10=-259/190, 5-12=-92/584, 4-12=-259/190

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-1-8, Exterior(2R) 11-1-8 to 14-1-8, Interior(1) 14-1-8 to 23-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- 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.



Structural wood sheathing directly applied or 4-9-15 oc purlins.

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

December 28,2021



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

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

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



Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418575 237 2723 A B2 Common Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:15 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-pYWcHdfv?RLGXYiPMxW2BRx?6NIQ3VTKq4MWlly66xU 16-6-8 22-3-0 5-5-0 5-5-0 4x6 || Scale = 1:49.6 8.00 12 1.5x4 \\ 1.5x4 // 6 4x4 ≫ 4x4 // 4x4 <> 0-10-0 10 13 9 14 8 4x8 || 4x8 | 3x4 = 3x4 = 3x4 = 14-8-13 Plate Offsets (X,Y)--[1:0-3-8,Edge], [7:0-5-13,Edge] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.10 8-10 >999 240 197/144 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.64 Vert(CT) -0.16 7-8 >999 180 TCDL 10.0 Rep Stress Incr YES WB 0.22 Horz(CT) 0.03 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Weight: 128 lb Matrix-S BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 3-5-9, Right 2x6 SP No.2 3-5-9

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=-167(LC 10)

Max Uplift 1=-40(LC 14), 7=-40(LC 15) Max Grav 1=1005(LC 25), 7=1005(LC 26)

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

1-3=-1309/87, 3-4=-1203/148, 4-5=-1203/149, 5-7=-1309/87 TOP CHORD

BOT CHORD 1-10=-90/1108, 8-10=0/762, 7-8=0/1000

WEBS 4-8=-93/588, 5-8=-263/191, 4-10=-93/588, 3-10=-263/191

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-1-8, Exterior(2R) 11-1-8 to 14-1-8, Interior(1) 14-1-8 to 22-3-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- 7) 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.



Structural wood sheathing directly applied or 4-9-14 oc purlins.

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

December 28,2021



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

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

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



Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418576 237 2723 A BE **GABLE** Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:17 2021 Page 1 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-mxeMilhAX2b_mssoTLZWGs0QjAbNXRbdHOrcqdy66xS

3x4 =

Scale = 1:51.5

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

23-1-8

22-3-0

11-1-8

10 6 8.00 12 12 6x6 // 6x6 💸 0-10-0 3x6 || 3x6 II 26 25 24 21 20 18 17 16 3x4 =

Plate Offsets (X,Y)--[2:Edge,0-0-0], [3:0-2-2,0-3-0], [8:0-2-0,Edge], [13:0-2-2,0-3-0], [14:Edge,0-6-8] LOADING (psf) SPACING-(loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00 14 120 MT20 197/144 n/r Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00 14 n/r 120 TCDL 10.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.01 14 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Weight: 153 lb FT = 20%Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

OTHERS 2x4 SP No.3

SLIDER Left 2x6 SP No.2 2-5-13, Right 2x6 SP No.2 2-5-13

-0-10-8 0-10-8

REACTIONS. All bearings 22-3-0.

Max Horz 2=-169(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 23, 24, 25, 26, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

11-1-8

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-1-8, Corner(3R) 11-1-8 to 14-1-8, Exterior(2N) 14-1-8 to 23-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 1.5x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- 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 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.
- 11) N/A
- 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.



December 28,2021

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

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

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



Job Truss Truss Type Qty Ply KB Home 237 2723 A Rev 149418577 237 2723 A BG COMMON GIRDER Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:19 2021 Page 1 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-iKI77_iQ3fri?A?Bbmb_LH5hE_8t?AMwkiKjuWy66xQ 16-6-4 5-8-12 5-4-12 5-4-12 5-8-12 5x9 || Scale = 1:51.3 3 8.00 12 4x8 / 4x8 < 2 0-10-0 0-110-0 X \boxtimes ¹⁶6 8 ¹¹ 10 13 7 4x8 =4x8 =4x8 II 10x12 =4x8 II 16-6-4 22-3-0 5-8-12 5-8-12 5-4-12 5-8-12 Plate Offsets (X,Y)--[6:0-6-0,0-2-0], [7:0-6-0,0-6-0], [8:0-6-0,0-2-0] LOADING (psf) SPACING-CSI. **DEFL** (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.09 7-8 >999 240 MT20 197/144 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.54 Vert(CT) -0.17 7-8 >999 180 TCDL 10.0 Rep Stress Incr NO WB 0.80 Horz(CT) 0.05 5 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 Weight: 517 lb FT = 20%Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x6 SP No.2

BOT CHORD 2x8 SP DSS 2x4 SP No.3 *Except* **WEBS**

10.0

3-7: 2x4 SP No.2 or 2x4 SPF No.2

REACTIONS.

1=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-4-14), 5=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-9)

Max Horz 1=162(LC 32)

Max Uplift 1=-532(LC 10), 5=-603(LC 11) Max Grav 1=9361(LC 3), 5=10591(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-13323/765, 2-3=-9205/600, 3-4=-9206/600, 4-5=-14016/806 BOT CHORD 1-8=-650/10718, 7-8=-650/10718, 6-7=-586/11289, 5-6=-586/11289

WEBS 3-7=-566/9799, 4-7=-4592/387, 4-6=-254/5647, 2-7=-3876/345, 2-8=-205/4825

- 1) 3-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: 2x8 - 3 rows staggered at 0-5-0 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.
- Unbalanced roof live loads have been considered for this design
- 4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- 9) 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
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1674 lb down and 104 lb up at 2-0-12, 1674 lb down and 104 lb up at 4-0-12, 1674 lb down and 104 lb up at 6-0-12, 1674 lb down and 104 lb up at 8-0-12, 1674 lb down and 104 lb up at 10-0-12, 1674 lb down and 104 lb up at 12-0-12, 1674 lb down and 104 lb up at 14-0-12, 1674 lb down and 104 lb up at 16-0-12, 1674 lb down and 104 lb up at 18-0-12, and 1674 lb down and 104 lb up at 18-11-4, and 1674 lb down and 104 lb up at 20-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

December 28,2021

Continued on page 2

LOAD CASE(S) Standard

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply KB Home 237.2723.A Rev 149418577 237_2723_A BG **COMMON GIRDER**

84 Components (Dunn),

Dunn, NC - 28334,

| 3 | Job Reference (optional) 8.530 s Dec | 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:19 2021 | Page 2 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-iKI77_iQ3fri?A?Bbmb_LH5hE_8t?AMwkiKjuWy66xQ

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-43, 3-5=-43, 1-5=-20

Concentrated Loads (lb)

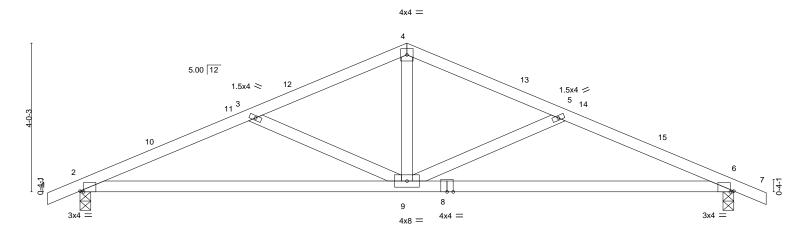
Vert: 9=-1193(B) 10=-1193(B) 11=-1193(B) 12=-1193(B) 13=-1193(B) 14=-1193(B) 15=-1193(B) 15=-1193(B) 16=-1193(B) 17=-1193(B) 18=-1193(B) 19=-1193(B) 19=-1193(B) 18=-1193(B) 1



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply KB Home 237,2723.A Rev 149418578 237 2723 A C₁ QUEENPOST Job Reference (optional) 84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:20 2021 Page 1 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-AWJVKKj2qzzZdJaN8U6DuVetxOQckmz3zM4HRyy66xP 12-11-2 17-8-0 0-10-8 0-10-8 4-8-14 4-1-2 4-1-2 4-8-14

Scale = 1:31.1



8-10-0 8-10-0 Plate Offsets (X,Y)--[2:0-1-2,Edge], [6:0-1-2,Edge] LOADING (psf) SPACING-2-0-0 CSI. (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.13 2-9 >999 240 197/144 MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 BC 0.83 Vert(CT) -0.272-9 >772 180 TCDL 10.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.03 6 n/a n/a **BCLL** 0.0 * Code IRC2018/TPI2014 FT = 20% Weight: 76 lb Matrix-S BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=58(LC 20)

Max Uplift 2=-58(LC 16), 6=-58(LC 17) Max Grav 2=756(LC 2), 6=756(LC 2)

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

TOP CHORD 2-3=-1316/234, 3-4=-987/150, 4-5=-987/150, 5-6=-1316/234

BOT CHORD 2-9=-161/1175, 6-9=-163/1175

WFBS 3-9=-360/162, 4-9=-7/513, 5-9=-360/162

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-10-0, Exterior(2R) 8-10-0 to 11-10-0, Interior(1) 11-10-0 to 18-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

8-10-0

- * 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.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 9) 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.



Structural wood sheathing directly applied or 4-9-4 oc purlins.

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

December 28,2021

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

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

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



3-11-2

6-3-0

Scale = 1:30.1

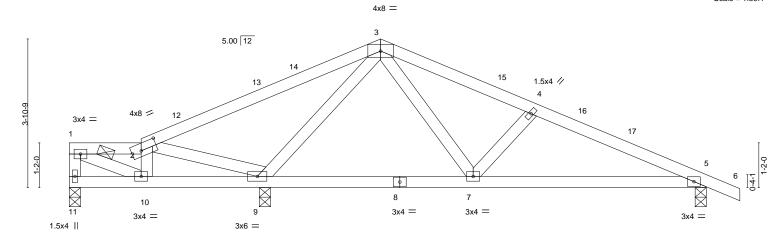
0-10-8

4-6-14

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.

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



1-10-0	3-2-12	J-J-4	6-1-0				
Plate Offsets (X,Y) [2:0-5-0,0-2-4]							
LOADING (psf) TCLL (roof) 20.0 Snow (Pf/Pg) 20.4/20.0 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 NO Code IRC2018/TPI2014	CSI. TC 0.91 BC 0.39 WB 0.41 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.03 5-7 >999 240 Vert(CT) -0.07 5-7 >999 180 Horz(CT) 0.01 5 n/a n/a	PLATES GRIP MT20 197/144 Weight: 78 lb FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-10-8

1-10-8

2x4 SP No.3 **WEBS**

REACTIONS. (size) 11=0-3-8, 9=0-3-8, 5=0-3-8

Max Horz 11=-59(LC 21)

Max Uplift 11=-34(LC 12), 9=-12(LC 18), 5=-52(LC 17) Max Grav 11=544(LC 3), 9=1205(LC 3), 5=482(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-11=-474/62, 1-2=-903/167, 2-3=-82/642, 3-4=-550/84, 4-5=-738/100 TOP CHORD

BOT CHORD 9-10=-110/831, 5-7=-43/642

WFBS 1-10=-173/937, 2-10=-451/113, 2-9=-1425/269, 3-9=-887/170, 3-7=-13/427,

4-7=-299/115

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-10-8, Interior(1) 1-10-8 to 8-1-8, Exterior(2R) 8-1-8 to 11-1-8, Interior(1) 11-1-8 to 17-6-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * 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.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11, 9, and 5. This connection is for uplift only and does not consider lateral forces.
- 10) 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.
- 11) Load case(s) 7, 8, 9, 12, 13, 14, 15, 16, 17, 20, 21 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORF USF

Och tinube வெக்கெ (S) section, loads applied to the face of the truss are noted as front (F) or back (B)



December 28,2021

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job	Truss	Truss Type	Qty	Ply	KB Home 237.2723.A Rev	
007 0700 A	C2	DOOF SPECIAL	2			149418579
237_2723_A	62	ROOF SPECIAL	3	1	Job Reference (optional)	

84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:21 2021 Page 2 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-eittYgkgbH5QFT9ZiBdSQiBuaoskTA0DC0pqzOy66xO

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-61, 2-3=-51, 3-6=-51, 5-11=-20

7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-2=-35(F=-15), 2-3=-20, 3-6=-20, 5-11=-40

Concentrated Loads (lb)

Vert: 2=-615(F)

8) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=15(F=-9), 2-3=20, 3-15=28, 5-15=20, 5-6=16, 5-11=-12

Horz: 1-11=16, 1-2=-36, 2-3=-32, 3-15=40, 5-15=32, 5-6=28

Concentrated Loads (lb)

Vert: 2=108(F)

9) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=11(F=-9), 2-13=20, 3-13=28, 3-17=20, 5-17=24, 5-6=41, 5-11=-12

Horz: 1-11=-28, 1-2=-32, 2-13=-32, 3-13=-40, 3-17=32, 5-17=36, 5-6=53

Concentrated Loads (lb)

Vert: 2=108(F)

12) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10(F=-9), 2-3=11, 3-5=9, 5-6=4, 5-11=-12

Horz: 1-11=13, 1-2=-31, 2-3=-23, 3-5=21, 5-6=16

Concentrated Loads (lb)

Vert: 2=63(F)

13) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-3(F=-9), 2-3=9, 3-5=11, 5-6=21, 5-11=-12

Horz: 1-11=-17, 1-2=-18, 2-3=-21, 3-5=23, 5-6=33

Concentrated Loads (lb)

Vert: 2=-60(F)

14) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-7(F=-9), 2-3=-6, 3-5=-8, 5-6=-4, 5-11=-20

Horz: 1-11=22, 1-2=-22, 2-3=-14, 3-5=12, 5-6=16

Concentrated Loads (lb)

Vert: 2=-453(F)

15) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-20(F=-9), 2-3=-8, 3-5=-6, 5-6=-2, 5-11=-20

Horz: 1-11=-8, 1-2=-9, 2-3=-12, 3-5=14, 5-6=18

Concentrated Loads (lb)

Vert: 2=-289(F)

16) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=10(F=-9), 2-3=19, 3-5=6, 5-6=1, 5-11=-12

Horz: 1-11=11, 1-2=-31, 2-3=-31, 3-5=18, 5-6=13

Concentrated Loads (lb)

Vert: 2=-10(F)

17) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-3(F=-9), 2-3=6, 3-5=19, 5-6=15, 5-11=-12

Horz: 1-11=-15, 1-2=-18, 2-3=-18, 3-5=31, 5-6=27

Concentrated Loads (lb)

Vert: 2=-60(F)

20) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-7(F=-9), 2-3=2, 3-5=-11, 5-6=-7, 5-11=-20

Horz: 1-11=20, 1-2=-22, 2-3=-22, 3-5=9, 5-6=13

Concentrated Loads (lb)

Vert: 2=-289(F)

21) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-20(F=-9), 2-3=-11, 3-5=2, 5-6=7, 5-11=-20

Horz: 1-11=-6, 1-2=-9, 2-3=-9, 3-5=22, 5-6=27

Concentrated Loads (lb)

Vert: 2=-289(F)



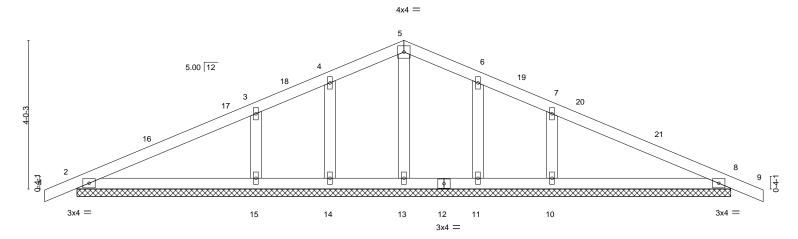
Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418580 237 2723 A CE **GABLE** Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:22 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-6vRFI0IIMaDHsdkmGv8hzwjDOBGFCjjMRgZNVry66xN

8-10-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

0-10-8 Scale = 1:31.1



		17-8- 17-8-							
TCLL (roof) 20.0 Snow (Pf/Pg) 11.6/15.0 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 0.27 BC 0.18 WB 0.06 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 0.02 0.00	(loc) 9 9 8	l/defl n/r n/r n/a	L/d 120 120 n/a	PLATES MT20 Weight: 76 lb	GRIP 197/144 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

0-10-8

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

OTHERS 2x4 SP No.3

REACTIONS. All bearings 17-8-0.

Max Horz 2=58(LC 20) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 14, 15, 11, 10, 2

8-10-0

8-10-0

Max Grav All reactions 250 lb or less at joint(s) 8, 13, 14, 11, 2 except 15=392(LC 2), 10=392(LC 2)

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

3-15=-276/118, 7-10=-276/118 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-10-0, Exterior(2R) 8-10-0 to 11-10-0, Interior(1) 11-10-0 to 18-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.6 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 1.5x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8, 14, 15, 11, 10, and 2. This connection is for uplift only and does not consider lateral forces.
- 13) 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.



December 28,2021

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

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



Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418581 237 2723 A V1 Valley Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:23 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-a5?ezMmx7uL8UnJyqcgwV7GJ9bbPx9DVfKIx2Hy66xM 19-6-12 9-9-6 9-9-6 Scale = 1:43.4 4x4 = 3 8.00 12 11 1.5x4 || 10 1.5x4 || 2 3x4 🗸 3x4 > 13 6 7 9 12 8 3x4 = 1.5x4 II 1.5x4 II 1.5x4 || 19-6-12 19-6-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES GRIP** (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.59 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.25 Vert(CT) 999 n/a n/a

LUMBER-TOP CHORD

TCDL

BCLL

BCDL

2x4 SP No.3

10.0

10.0

0.0

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 19-6-12. (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-139(LC 14), 6=-139(LC 15)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=314(LC 28), 9=584(LC 25), 6=584(LC 26)

WB

Matrix-S

0.11

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

5

n/a

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

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Rep Stress Incr

Code IRC2018/TPI2014

2-9=-355/195, 4-6=-355/195 WEBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-9-6, Exterior(2R) 9-9-6 to 12-9-6, Interior(1) 12-9-6 to 19-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
- * 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.
- 7) N/A

8) N/A

9) 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.



Weight: 81 lb

FT = 20%



Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418582 237 2723 A V2 Valley Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:24 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-2HZ0AimZuCT?6xu8NKB92LpY3?zZgcifu_2Uajy66xL 8-3-6 8-3-6 16-6-12 8-3-6 Scale = 1:36.9 4x4 = 3 8.00 12 12 1.5x4 || 1.5x4 || 13 10 3x4 / 3x4 N 9 8 6 3x4 = 1.5x4 || 1.5x4 || 1.5x4 II 16-6-12 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.38 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 67 lb FT = 20% **BCDL** 10.0 LUMBER-BRACING-

TOP CHORD

BOT CHORD

TOP CHORD

2x4 SP No.3

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 16-6-12.

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-114(LC 14), 6=-114(LC 15) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=382(LC 25), 6=382(LC 26)

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

2-9=-287/161, 4-6=-287/160 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-3-6, Exterior(2R) 8-3-6 to 11-3-6, Interior(1) 11-3-6 to 16-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
- * 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) N/A
- 8) N/A
- 9) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



149418583 237_2723_A V3 Valley Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:25 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-XT7OO1nBfVcsj5TKx1iObYLkCPluP3Jo7en269y66xK 13-6-12 6-9-6 6-9-6 Scale = 1:28.9 4x4 = 3 8.00 12 10 1.5x4 || 1.5x4 || 8 7 6 3x4 > 3x4 / 1.5x4 || 1.5x4 || 1.5x4 || 13-6-12 13-6-12 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 197/144 1.15 TC 0.29 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) 999 n/a n/a **TCDL** 10.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 52 lb FT = 20% **BCDL** 10.0 **BRACING-**

TOP CHORD

BOT CHORD

Qty

KB Home 237,2723.A Rev

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

LUMBER-TOP CHORD

Job

Truss

Truss Type

2x4 SP No.3

BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2

2x4 SP No.3 **OTHERS**

REACTIONS. All bearings 13-6-12.

Max Horz 1=-89(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=266(LC 2), 8=314(LC 25), 6=314(LC 26)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-9-6, Exterior(2R) 6-9-6 to 9-9-6, Interior(1) 9-9-6 to 13-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 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) N/A
- 8) N/A
- 9) 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.



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

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

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



Job Truss Truss Type Qty KB Home 237,2723.A Rev 149418584 Valley 237 2723 A V4 Job Reference (optional) 8.530 s Dec 6 2021 MiTek Industries, Inc. Thu Dec 23 09:56:26 2021 Page 1 84 Components (Dunn), Dunn, NC - 28334, ID:ytBjKryWUodVVgHGUH7JdBzXTGY-?ghmbNopPpkjLE2XVkDd7muxZpdq8X?yMIXbecy66xJ 10-6-12 5-3-6 5-3-6 5-3-6 Scale = 1:23.6 4x4 = 3 8.00 12 1.5x4 || 1.5x4 5 2x4 <> 2x4 / 1.5x4 II 1.5x4 II 1.5x4 II 0-<u>0-6</u> 10-6-12 10-6-6 LOADING (psf) SPACING-2-0-0 DEFL. L/d **PLATES GRIP** CSI. (loc) I/defl TCLL (roof) 20.0 Plate Grip DOL Vert(LL) 999 244/190 1.15 TC 0.19 n/a n/a MT20 Snow (Pf/Pg) 11.6/15.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) 999 n/a n/a TCDI 10.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 5 n/a n/a **BCLL** 0.0 Code IRC2018/TPI2014 Matrix-S Weight: 39 lb FT = 20% **BCDL** 10.0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

(lb) -

OTHERS 2x4 SP No.3 REACTIONS. All bearings 10-6-0.

> Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 6, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6, 8

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.

Max Horz 1=-67(LC 10)

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 5-3-6, Exterior(2R) 5-3-6 to 8-6-12, Interior(1) 8-6-12 to 10-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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 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) N/A
- 8) N/A
- 9) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

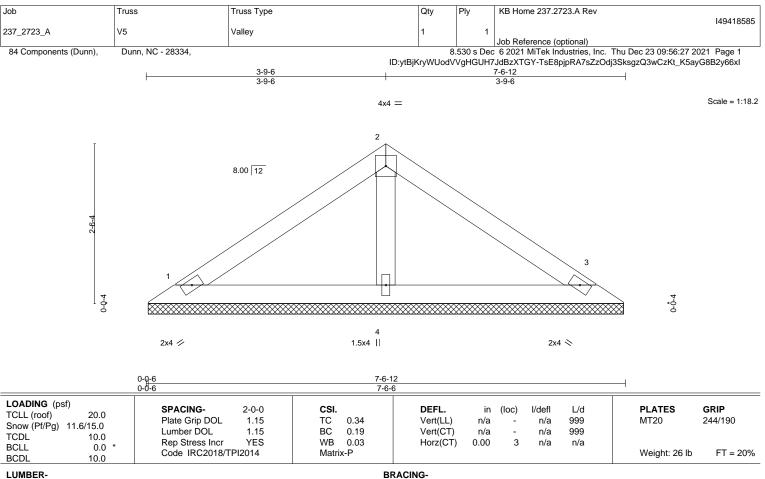
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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OTHERS

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

2x4 SP No.3

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

1=7-6-0, 3=7-6-0, 4=7-6-0 (size) Max Horz 1=-46(LC 10) Max Uplift 1=-21(LC 14), 3=-27(LC 15)

Max Grav 1=141(LC 2), 3=141(LC 2), 4=245(LC 2)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
- * 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) N/A
- 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.





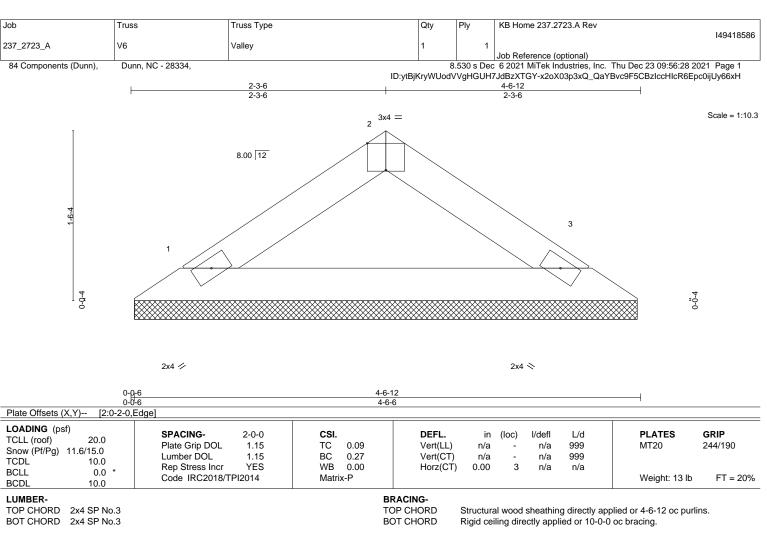


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REACTIONS.

1=4-6-0, 3=4-6-0 (size) Max Horz 1=25(LC 11) Max Uplift 1=-7(LC 14), 3=-7(LC 15) Max Grav 1=144(LC 2), 3=144(LC 2)

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 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=15.0 psf; Pf=11.6 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.
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- 7) N/A
- 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.





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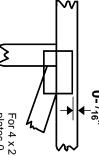


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

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

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

PLATE SIZE

4 × 4

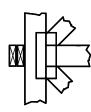
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



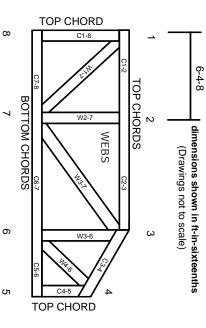
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

4.

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

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

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