

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 237_2723_A_R2
KB Home 237.3723.A Rev 2

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: I51172571 thru I51172588

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

North Carolina COA: C-0844



April 6, 2022

Gilbert, Eric

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

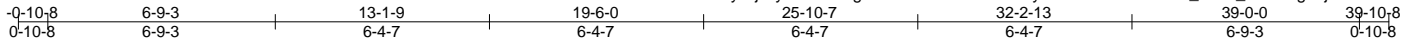
Job 237_2723_A_R2	Truss A1	Truss Type COMMON	Qty 2	Ply 1	KB Home 237.3723.A Rev 2	151172572
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84 Components (Dunn), Dunn, NC - 28334,

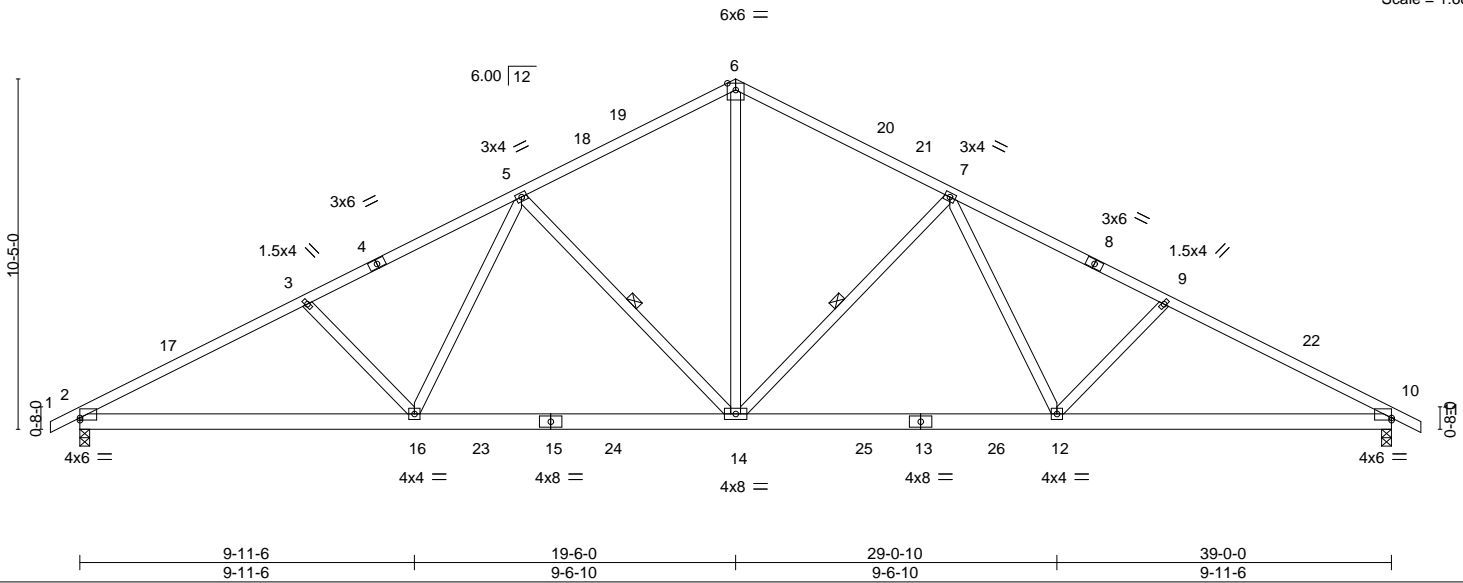
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:58:52 2022 Page 1

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Job Reference (optional)



Scale = 1:68.5



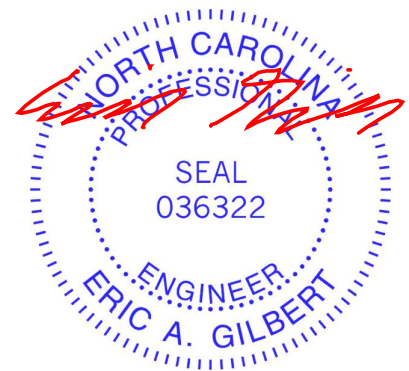
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.97	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.84	Vert(LL) -0.20 12-14 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.35 12-14 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 235 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-11 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-14, 5-14

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.
 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.
 - 7) * 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.



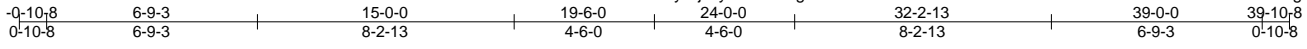
Job 237_2723_A_R2	Truss A1A	Truss Type ROOF TRUSS	Qty 5	Ply 1	KB Home 237.3723.A Rev 2	151172573
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84 Components (Dunn), Dunn, NC - 28334,

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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-heWULi2oVSDZwNIDKUJDaHdYGo338Fr7Nges?zTrM0

Job Reference (optional)



6x6 =

Scale = 1:73.9

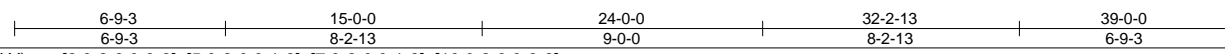
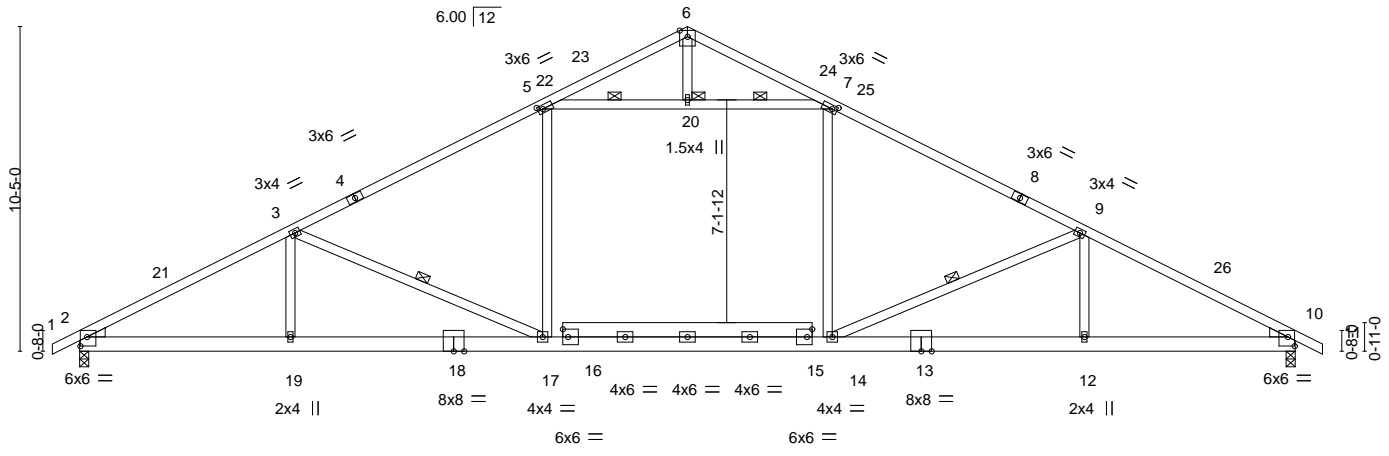


Plate Offsets (X, Y)-- [2:0-2-9,0-3-8], [5:0-2-0,0-1-8], [7:0-2-0,0-1-8], [10:0-2-9,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/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	MT20	197/144
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.58 17-19	>795	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.09 10	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Attic	-0.33 14-17	324	360	Weight: 254 lb	FT = 20%
BCDL	10.0										

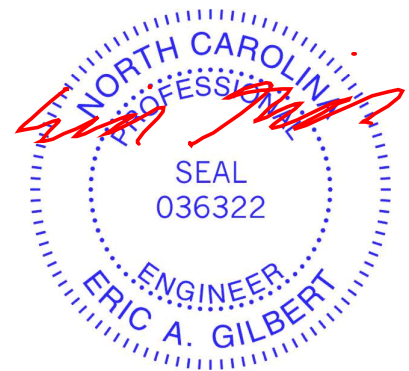
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2 *Except*
13-18: 2x6 SP DSS
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 9-14, 3-17, 5-20, 7-20
JOINTS 1 Brace at Jt(s): 20

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
WEBS 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.
 - 7) * 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.
 - 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.
 - 12) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



April 6, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job 237_2723_A_R2	Truss A1E	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172574
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84 Components (Dunn), Dunn, NC - 28334,

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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-6DCd_k4hoNb8nrUo0dswCvE_3U?zGYQHPLvJSKzTrLz

Job Reference (optional)

0-10-8 19-6-0 39-0-0 39-10-8
0-10-8 19-6-0 19-6-0 0-10-8

6x6 =

Scale = 1:73.3

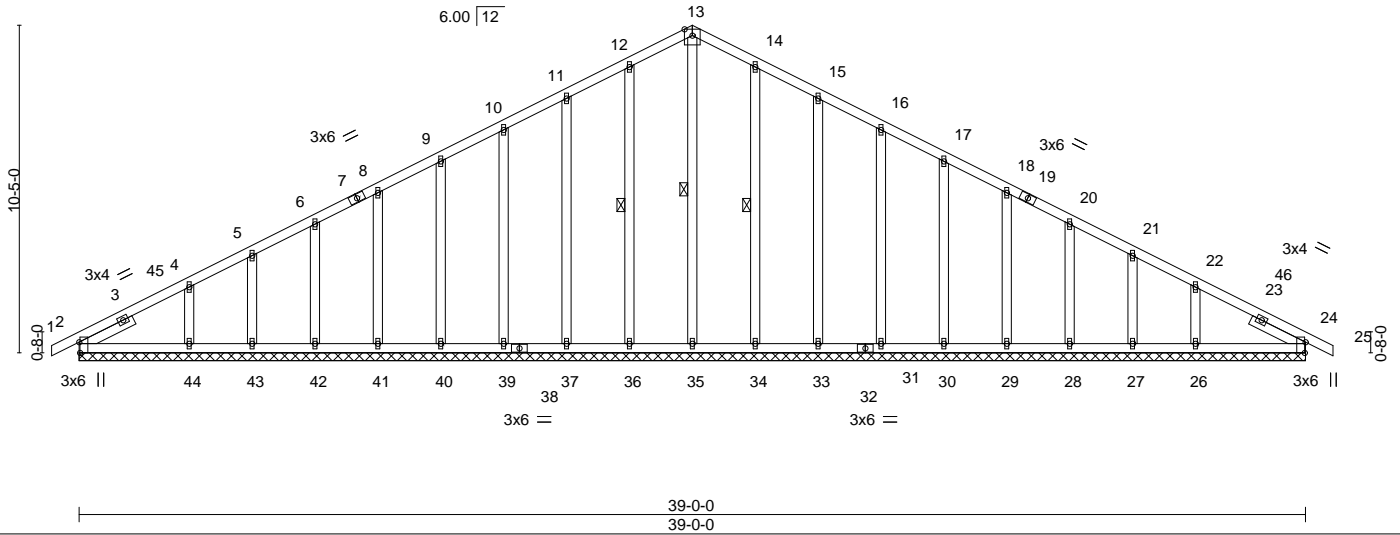


Plate Offsets (X,Y)-- [2:0-4-1,Edge], [24:0-4-1,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) 0.00 25 n/r 120		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Vert(CT) 0.00 25 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 24 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 274 lb	FT = 20%

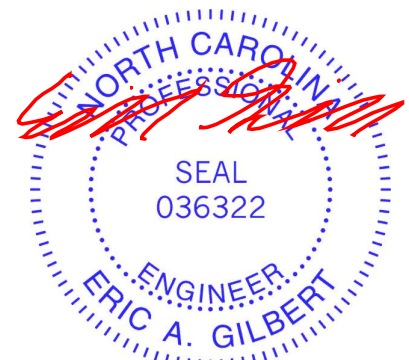
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 SLIDER Left 2x4 SP No.3 1-10-12, Right 2x4 SP No.3 1-10-12

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.
 WEBS 1 Row at midpt 13-35, 12-36, 14-34

REACTIONS. All bearings 39-0-0.
 (lb) - Max Horz 2=145(LC 20)
 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
 Max Grav All reactions 250 lb or less at joint(s) 2, 35, 36, 37, 39, 40, 41, 42, 43, 34, 33, 31, 30, 29, 28, 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

- 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 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.
 - 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.



April 6, 2022

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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Job 237_2723_A_R2	Truss AE	Truss Type Common Supported Gable	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172575
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84 Components (Dunn), Dunn, NC - 28334,

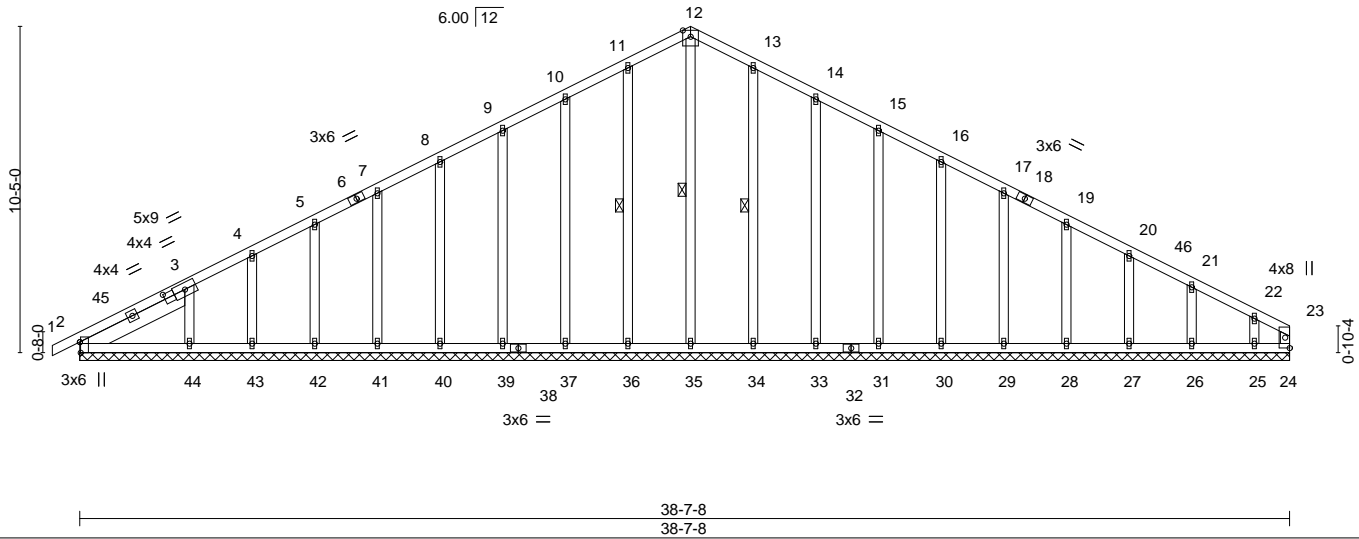
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:58:58 2022 Page 1

ID:ytBjKryWUodVvGhGUH7JdBzXTGY-2cKNPP5xK?rs08eB72vOHKKL5HhYkSxaGfOPWDzTrLx



6x6 =

Scale = 1:73.6



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)	-0.00	1	n/r	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	0.00	1	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.01	24	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-S						
BCDL 10.0								Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 12-35, 11-36, 13-34
OTHERS 2x4 SP No.3	
SLIDER Left 2x6 SP No.2 3-9-4	

REACTIONS. All bearings 38-7-8.
 (lb) - Max Horz 2=148(LC 16)
 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)
 Max Grav All reactions 250 lb or less at joint(s) 24, 2, 35, 36, 37, 39, 40, 41, 42, 43, 44, 34, 33, 31, 30, 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.
 - 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.
 - 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.



April 6, 2022

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

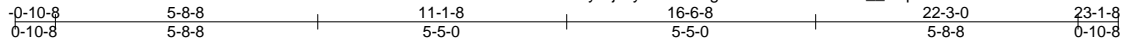
Job 237_2723_A_R2	Truss B1	Truss Type Common	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172576
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84 Components (Dunn),

Dunn, NC - 28334,

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ID:ytBjKryWUodVVgHGuh7JdBzXTGY-__R8p57Bsc5ZFSoZFSxsMIPco5EFLotkytWb5zTrLv



4x6 ||

Scale = 1:50.1

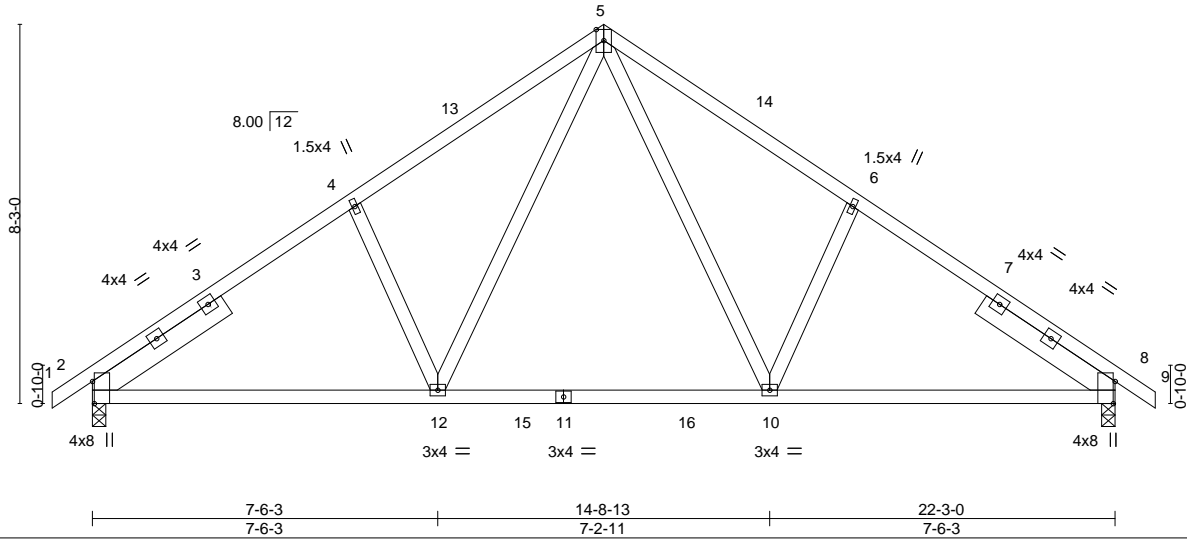


Plate Offsets (X,Y)-- [2:0-5-13,Edge], [8:0-5-13,Edge]

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	0.40	-0.10	10-12	>999	240	MT20	197/144
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.64	-0.16	2-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	0.03	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										

Weight: 131 lb FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
SLIDER Left 2x6 SP No.2 3-5-9, Right 2x6 SP No.2 3-5-9

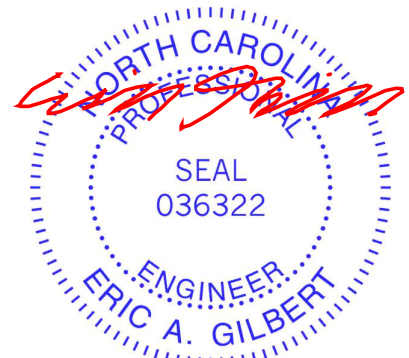
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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 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.
- 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, with BCDL = 10.0psf.
- 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(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.



April 6, 2022

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

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

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

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



818 Soundside Road
Edenton, NC 27932

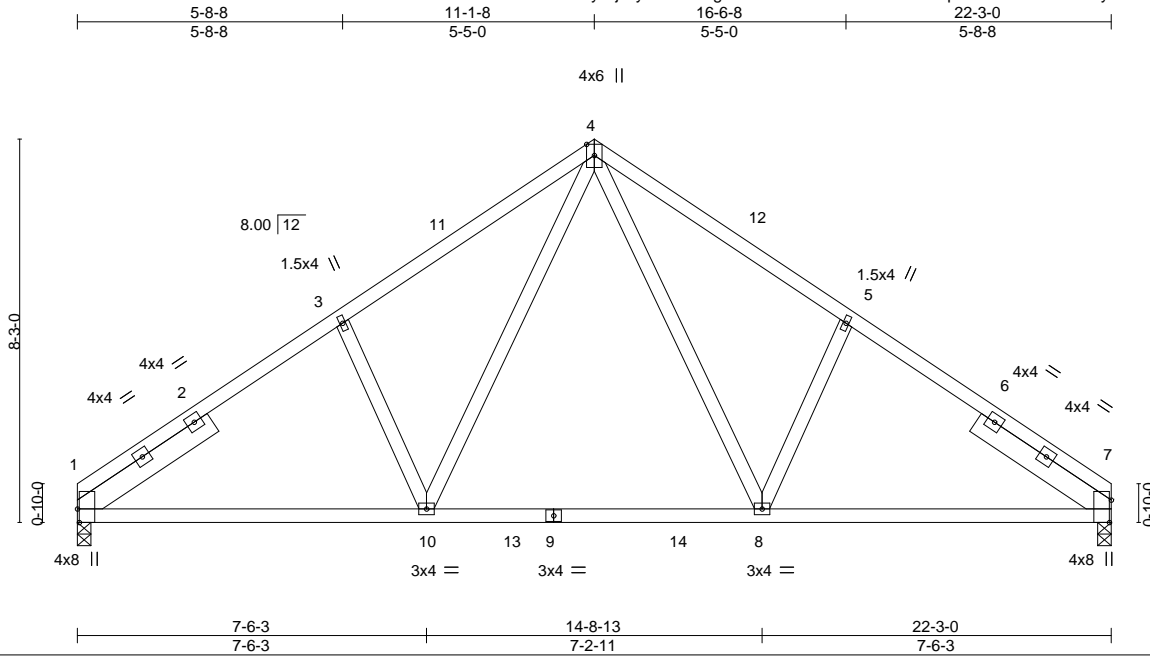
Job 237_2723_A_R2	Truss B2	Truss Type Common	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172577
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:01 2022 Page 1

ID:ytBjKryWUodVvgHGUH7JdBzXTGY-SB?W1R8pdwEQtcMmoAS5vzynaVZQxoc0ycc47YzTrLu



Scale = 1:49.6

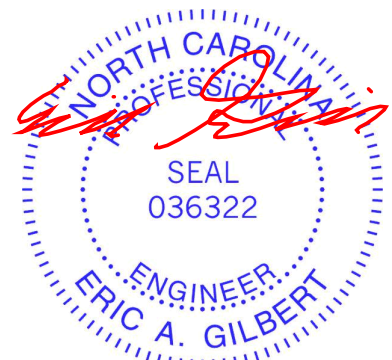
Plate Offsets (X,Y)--	[1:0-3-8,Edge], [7:0-5-13,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.10	8-10	>999	240	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.16	7-8	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.03	7	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S					Weight: 128 lb	FT = 20%
BCDL 10.0								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
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.
 TOP CHORD 1-3=-1309/87, 3-4=-1203/148, 4-5=-1203/149, 5-7=-1309/87
 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

- 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) 0-0-0 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.
 - 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) 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.



April 6, 2022

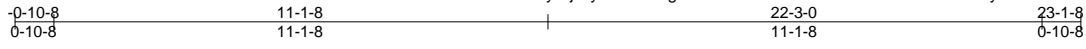
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 237_2723_A_R2	Truss BE	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.3723.A Rev 2 Job Reference (optional)	151172578
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:02 2022 Page 1

ID:ytBjKryWUodVvGhGUH7JdBzXTGY-xNZuEn9SODMHVmxymtzKRAU1Su38gHU9BGMdf_zTrLt



3x4 =

Scale = 1:51.9

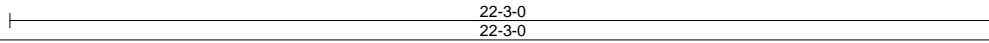
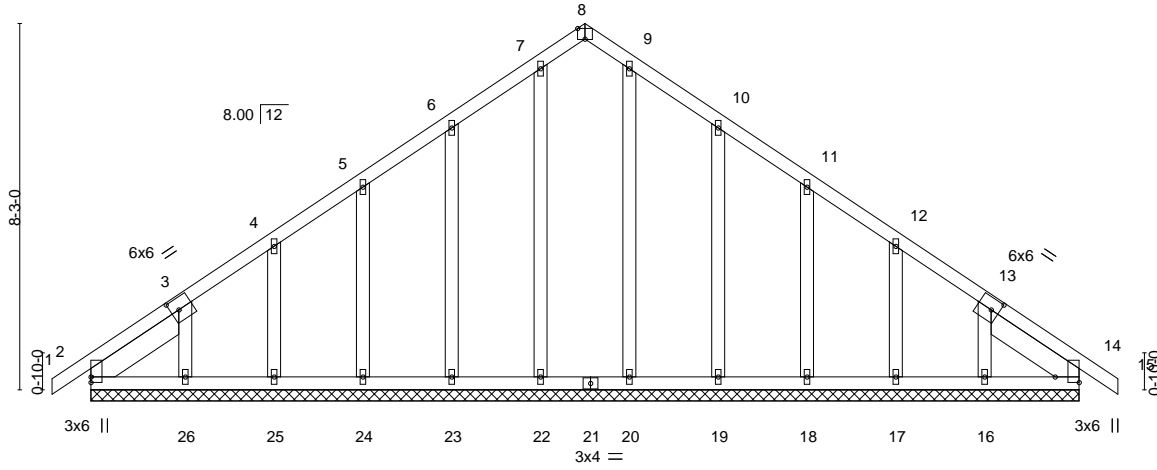


Plate Offsets (X, Y)-- [2:Edge,0-0-0], [3:0-2-2,0-3-0], [8:0-2-0,Edge], [13:0-2-2,0-3-0], [14:Edge,0-6-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	14	n/r	MT20	197/144
Snow (Pf/Pg)	11.6/15.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	14	n/r		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	14	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							
BCDL	10.0									Weight: 153 lb	FT = 20%

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

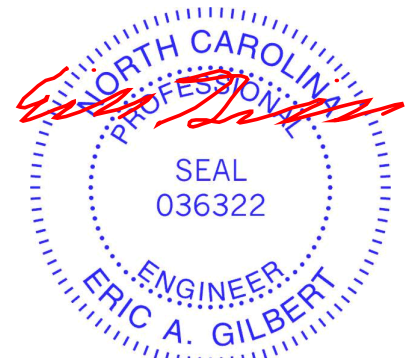
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-3-0.
(lb) - Max Horz 2=169(LC 12)
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

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 7-16; 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
- 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- N/A
- 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.



April 6, 2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

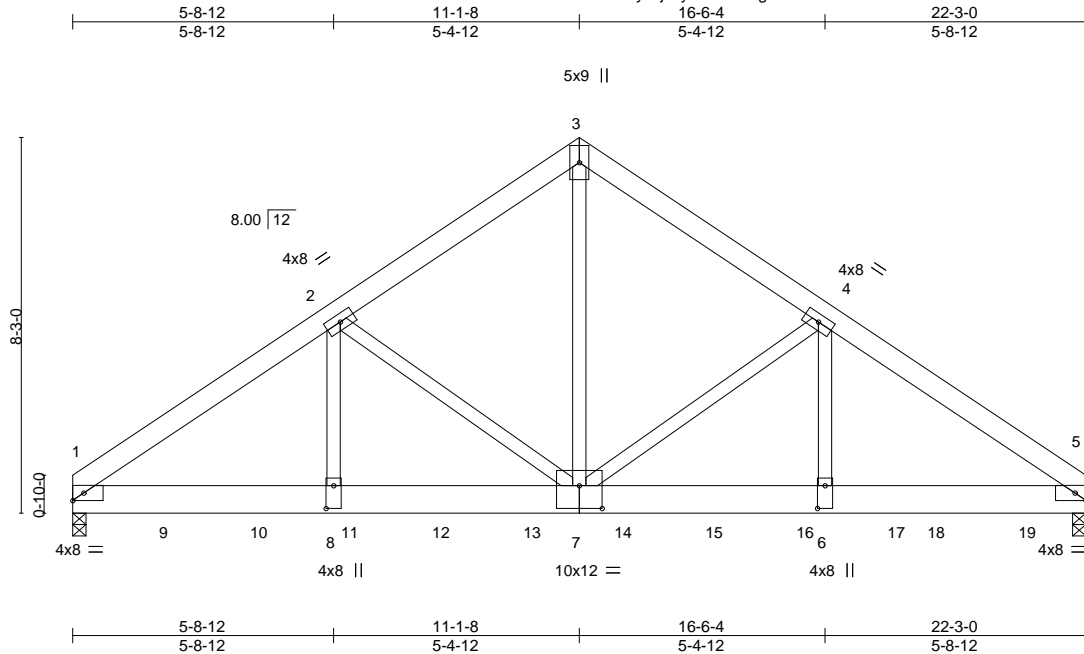
Job 237_2723_A_R2	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 3	KB Home 237.3723.A Rev 2	151172579
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:04 2022 Page 1

ID:ytBjKryWUodVVgHG7JdBzXTGY-tmhefTAiwrc?k45KUI?oWbalzide80GSearktzTrLr



Scale = 1:50.6

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- 2-0-0	CSI.	DEFL. in (loc) l/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	Matrix-S			
BCDL 10.0				Weight: 517 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.2
 BOT CHORD 2x8 SP DSS
 WEBS 2x4 SP No.3 *Except*
 3-7: 2x4 SP No.2 or 2x4 SPF No.2

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.

REACTIONS.

(size) 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

NOTES-

- 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.
- 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.
- 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
- 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
- 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.
- TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing at jt(s) 1 and 5. This connection 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.
- 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.

Continued on page 2

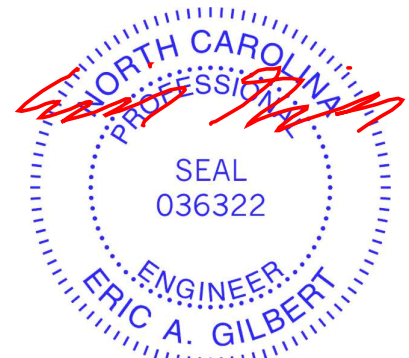
LOAD CASE(S) Standard

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 a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



April 6, 2022

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 237_2723_A_R2	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 3	KB Home 237.3723.A Rev 2 I51172579 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:04 2022 Page 2
ID:ytBjKryWUodVVgHGUH7JdBzXTGY-tmhefTAiwrc?k45KUI?oWbalzide80GSearkktzTrLr

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) 16=-1193(B) 17=-1193(B) 18=-1193(B) 19=-1193(B)

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

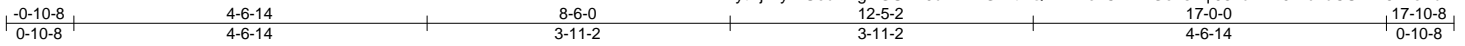
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



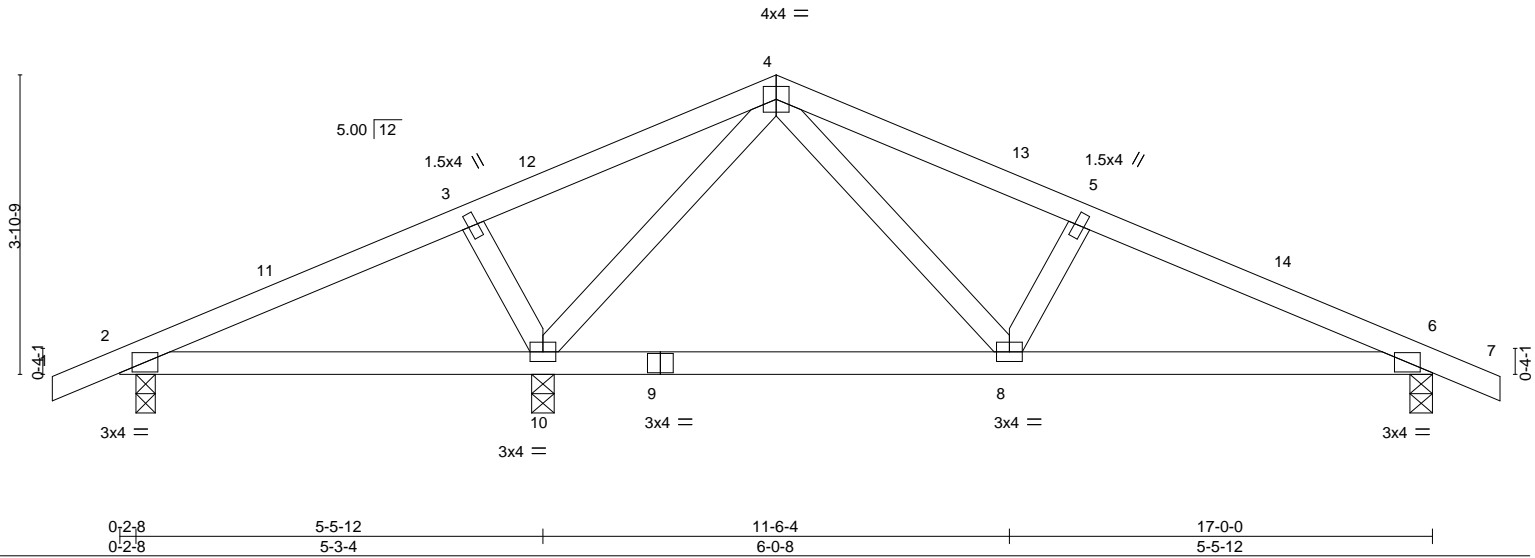
818 Soundside Road
Edenton, NC 27932

Job 237_2723_A_R2	Truss C1	Truss Type COMMON	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172580
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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-iRQAnHKeKcNBMGo1s4qi95kbrWBjWuxdCUM4i6zToKd
8.530 s Dec 6 2021 MITek Industries, Inc. Tue Apr 5 10:25:10 2022 Page 1



Scale = 1:29.8



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	-0.02	6-8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.05	6-8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 75 lb	FT = 20%

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

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

REACTIONS. (lb/size) 10=818/0-3-8 (min. 0-1-8), 6=469/0-3-8 (min. 0-1-8), 2=173/0-3-0 (min. 0-1-8)
Max Horz 2=-43(LC 10)
Max Uplift 6=-31(LC 12), 2=-32(LC 12)
Max Grav 10=818(LC 1), 6=469(LC 1), 2=205(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 4-12=0/267, 4-13=-493/115, 5-13=-545/98, 5-14=-619/104, 6-14=-667/93
BOT CHORD 6-8=-48/568
WEBS 3-10=-273/121, 4-10=-582/90, 4-8=-43/456, 5-8=-254/118

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-6-0, Exterior(2R) 8-6-0 to 11-6-0, Interior(1) 11-6-0 to 17-10-8 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) 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 2. This connection is for uplift only and does not consider lateral forces.
 - 6) 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.

- LOAD CASE(S)**
- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-6=-20
 - 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 2-6=-20
 - 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-6=-40
 - 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60



April 6, 2022

Continued on page 2

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

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



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KB Home 237.3723.A Rev 2	IS1172580
237_2723_A_R2	C1	COMMON	1	1	Job Reference (optional)	

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 10:25:10 2022 Page 2
 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-iRQAnHKeKcNBMGo1s4qi95kbrWBjWuxdCUM4I6zToKd

LOAD CASE(S)

- Uniform Loads (plf)
 Vert: 1-2=41, 2-11=24, 4-11=20, 4-13=28, 6-13=20, 6-7=15, 2-6=-12
 Horz: 1-2=-53, 2-11=-36, 4-11=-32, 4-13=40, 6-13=32, 6-7=27
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=15, 2-12=20, 4-12=28, 4-14=20, 6-14=24, 6-7=41, 2-6=-12
 Horz: 1-2=-27, 2-12=-32, 4-12=-40, 4-14=32, 6-14=36, 6-7=53
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-12, 2-4=-32, 4-6=-32, 6-7=-28, 2-6=-20
 Horz: 1-2=-8, 2-4=12, 4-6=-12, 6-7=-8
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-28, 2-4=-32, 4-6=-32, 6-7=-12, 2-6=-20
 Horz: 1-2=8, 2-4=12, 4-6=-12, 6-7=8
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=18, 2-4=5, 4-6=5, 6-7=1, 2-6=-12
 Horz: 1-2=-30, 2-4=-17, 4-6=17, 6-7=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=1, 2-4=5, 4-6=5, 6-7=18, 2-6=-12
 Horz: 1-2=-13, 2-4=-17, 4-6=17, 6-7=30
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-18, 2-4=-23, 4-6=-12, 6-7=-7, 2-6=-20
 Horz: 1-2=-2, 2-4=3, 4-6=8, 6-7=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-7, 2-4=-12, 4-6=-23, 6-7=-18, 2-6=-20
 Horz: 1-2=-13, 2-4=-8, 4-6=-3, 6-7=2
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=25, 2-4=13, 4-6=13, 6-7=25, 2-6=-12
 Horz: 1-2=-37, 2-4=-25, 4-6=25, 6-7=37
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=16, 2-4=4, 4-6=4, 6-7=16, 2-6=-12
 Horz: 1-2=-28, 2-4=-16, 4-6=16, 6-7=28
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-6=-20
 Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-6=-20
 Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-20, 2-6=-20
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-49, 2-4=-52, 4-6=-44, 6-7=-40, 2-6=-20
 Horz: 1-2=-1, 2-4=2, 4-6=6, 6-7=10
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-40, 2-4=-44, 4-6=-52, 6-7=-49, 2-6=-20
 Horz: 1-2=-10, 2-4=-6, 4-6=-2, 6-7=1
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-6=-20
 Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-6=-20
 Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-2=4, 2-4=-28, 4-7=-28, 2-6=-12
 Horz: 1-2=-16, 2-4=16, 4-7=-16
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
 Uniform Loads (plf)
 Vert: 1-4=4, 4-7=4, 2-6=-12
 Horz: 1-4=-16, 4-7=16
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-7=-20, 2-6=-20

Continued on page 3

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 237_2723_A_R2	Truss C1	Truss Type COMMON	Qty 1	Ply 1	KB Home 237.3723.A Rev 2 Job Reference (optional)	I51172580
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8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 10:25:10 2022 Page 3
 ID:ytBjKryWUodVVgHGUH7JdBzXTGY-iRQAnHKeKcNBMGo1s4qi95kbrWBJWuxdCUM4I6zToKd

LOAD CASE(S)

- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-60, 2-6=-20
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-50, 4-7=-20, 2-6=-20
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-20, 4-7=-50, 2-6=-20

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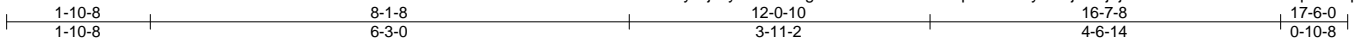
818 Soundside Road
 Edenton, NC 27932

Job 237_2723_A_R2	Truss C2	Truss Type ROOF SPECIAL	Qty 3	Ply 1	KB Home 237.3723.A Rev 2	151172581
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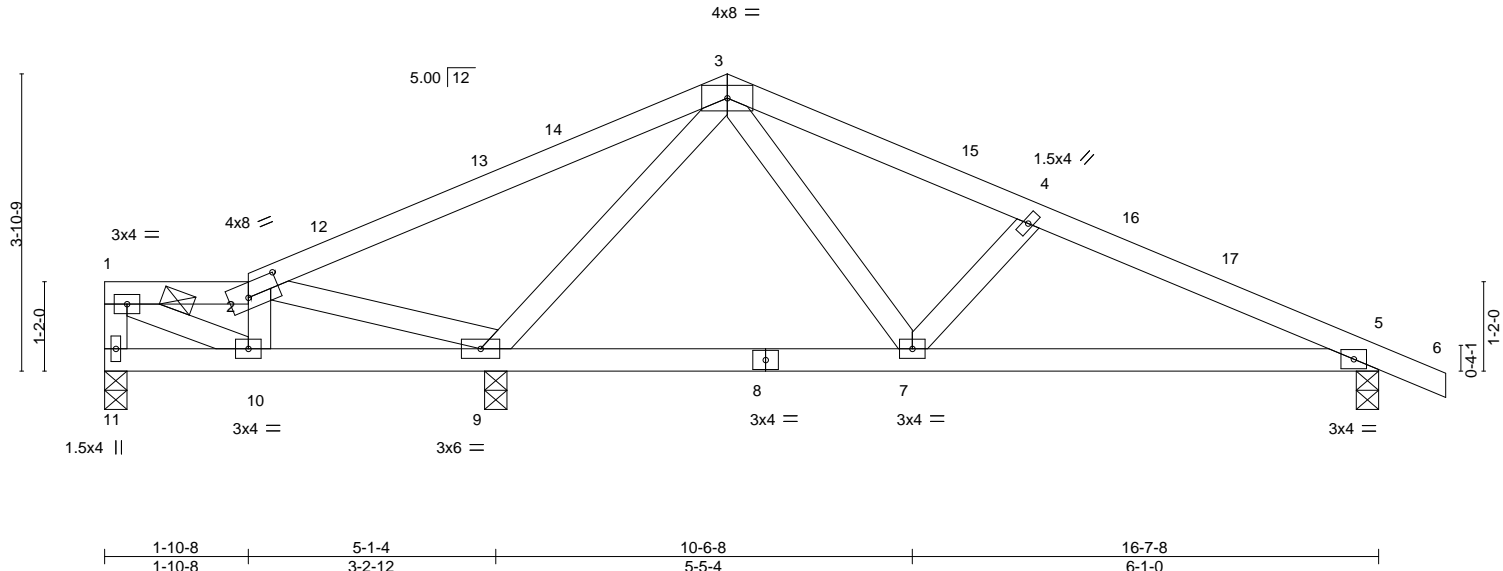
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:06 2022 Page 1

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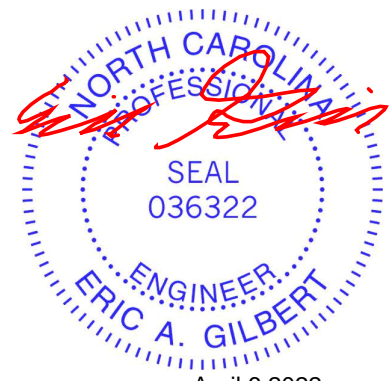
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.91	Vert(LL)	-0.03	5-7	>999	240	MT20	197/144
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.07	5-7	>999	180		
BCLL	10.0	Rep Stress Incr	NO	WB	0.41	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0											
											Weight: 78 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD	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.
BOT CHORD	2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

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.
 TOP CHORD 1-11=-474/62, 1-2=-903/167, 2-3=-82/642, 3-4=-550/84, 4-5=-738/100
 BOT CHORD 9-10=-110/831, 5-7=-43/642
 WEBS 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.
- On the CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	KB Home 237.3723.A Rev 2	I51172581
237_2723_A_R2	C2	ROOF SPECIAL	3	1	Job Reference (optional)	

84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:06 2022 Page 2
ID:ytBjKryWUodVvGHGUH7JdBzXTGY-p8oP48CyRSsjNFbj2Gb0fWlWKWc0w16uKqolzTrLp

LOAD CASE(S) Standard

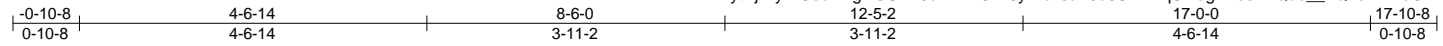
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-61, 2-3=-51, 3-6=-51, 5-11=-20
- 7) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-35(F=-15), 2-3=-20, 3-6=-20, 5-11=-40
Concentrated 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)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

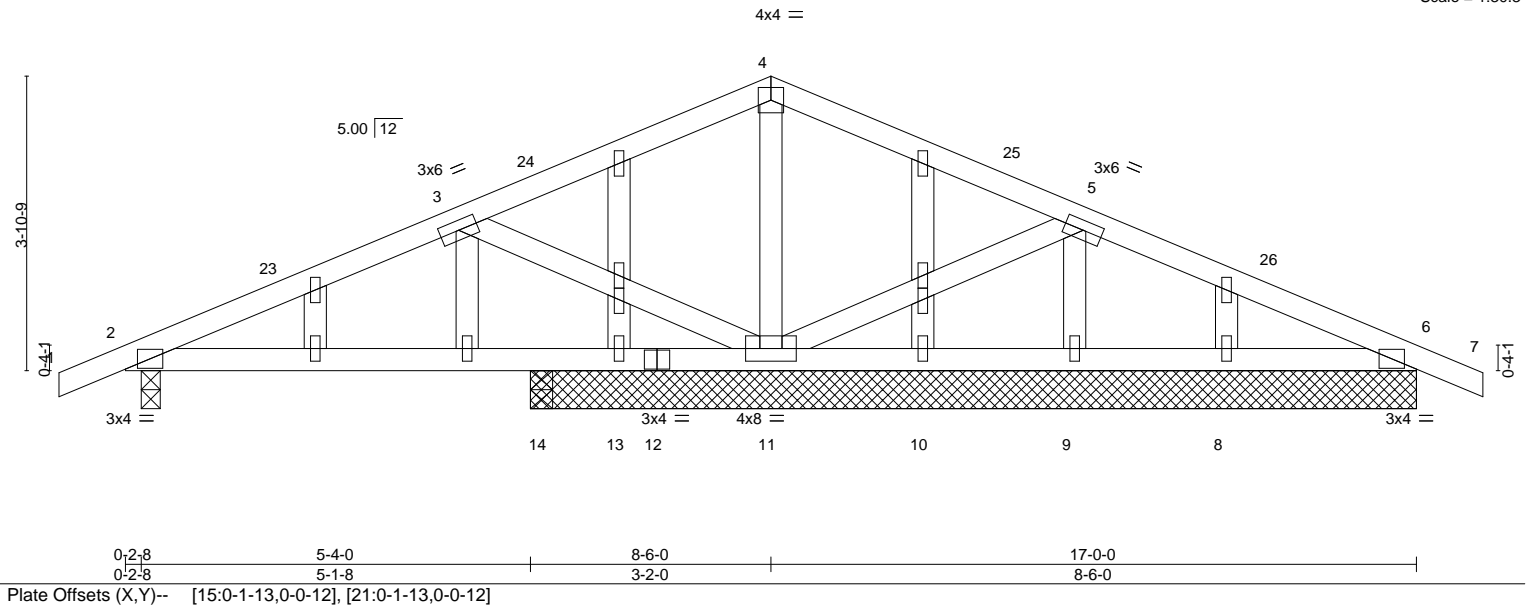


Job 237_2723_A_R2	Truss CE	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172582
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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-8yrYdkJaZ5u8UEAVqSmdgATos4VQue...?QhewlzToGm
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 10:29:17 2022 Page 1



Scale = 1:30.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.02 2-14 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.04 2-14 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2018/TPI2014			Weight: 87 lb	FT = 20%

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

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

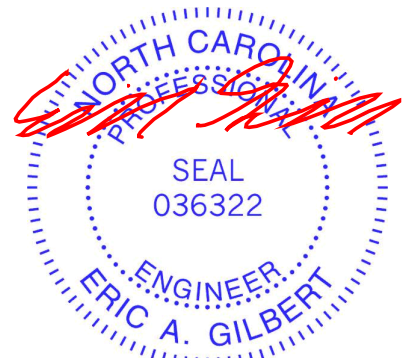
REACTIONS. All bearings 11-8-0 except (jt=length) 2=0-3-0, 14=0-3-8.
(lb) - Max Horz 2=-43(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13, 6, 2 except 11=-102(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10, 9, 8 except 11=726(LC 1), 6=255(LC 24), 2=296(LC 23), 14=260(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-23=-257/55, 4-24=-32/259, 4-25=-32/259, 6-26=-253/58
WEBS 4-11=-383/110, 5-11=-359/165, 3-11=-361/161

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-6-0, Exterior(2R) 8-6-0 to 11-6-0, Interior(1) 11-6-0 to 17-10-8 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
 - 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.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - N/A
 - 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.

LOAD CASE(S)

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-6=-20
- Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-7=-50, 2-6=-20



April 6, 2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 237_2723_A_R2	Truss CE	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	IS1172582
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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-8YrYdkJaZ5u8UEAVqSmdgATos4VQue___?QhewlzToGm
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 10:29:17 2022 Page 2

LOAD CASE(S)

- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-6=-40
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=41, 2-23=24, 4-23=20, 4-25=28, 6-25=20, 6-7=15, 2-6=-12
Horz: 1-2=-53, 2-23=-36, 4-23=-32, 4-25=40, 6-25=32, 6-7=27
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=15, 2-24=20, 4-24=28, 4-26=20, 6-26=24, 6-7=41, 2-6=-12
Horz: 1-2=-27, 2-24=-32, 4-24=-40, 4-26=32, 6-26=36, 6-7=53
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-12, 2-4=-32, 4-6=-32, 6-7=-28, 2-6=-20
Horz: 1-2=-8, 2-4=12, 4-6=-12, 6-7=-8
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-28, 2-4=-32, 4-6=-32, 6-7=-12, 2-6=-20
Horz: 1-2=8, 2-4=12, 4-6=-12, 6-7=8
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=18, 2-4=5, 4-6=5, 6-7=1, 2-6=-12
Horz: 1-2=-30, 2-4=-17, 4-6=17, 6-7=13
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=1, 2-4=5, 4-6=5, 6-7=18, 2-6=-12
Horz: 1-2=-13, 2-4=-17, 4-6=17, 6-7=30
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-18, 2-4=-23, 4-6=-12, 6-7=-7, 2-6=-20
Horz: 1-2=-2, 2-4=3, 4-6=8, 6-7=13
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-7, 2-4=-12, 4-6=-23, 6-7=-18, 2-6=-20
Horz: 1-2=-13, 2-4=-8, 4-6=-3, 6-7=2
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=25, 2-4=13, 4-6=13, 6-7=25, 2-6=-12
Horz: 1-2=-37, 2-4=-25, 4-6=25, 6-7=37
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=16, 2-4=4, 4-6=4, 6-7=16, 2-6=-12
Horz: 1-2=-28, 2-4=-16, 4-6=16, 6-7=28
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-6=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-16, 2-4=-21, 4-6=-21, 6-7=-16, 2-6=-20
Horz: 1-2=-4, 2-4=1, 4-6=-1, 6-7=4
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 4-7=-20, 2-6=-20
- 17) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-4=-52, 4-6=-44, 6-7=-40, 2-6=-20
Horz: 1-2=-1, 2-4=2, 4-6=6, 6-7=10
- 18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-40, 2-4=-44, 4-6=-52, 6-7=-49, 2-6=-20
Horz: 1-2=-10, 2-4=-6, 4-6=-2, 6-7=1
- 19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-6=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-47, 2-4=-51, 4-6=-51, 6-7=-47, 2-6=-20
Horz: 1-2=-3, 2-4=1, 4-6=-1, 6-7=3
- 21) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=4, 2-4=-28, 4-7=-28, 2-6=-12
Horz: 1-2=-16, 2-4=16, 4-7=-16
- 22) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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

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



818 Soundside Road
Edenton, NC 27932

Job 237_2723_A_R2	Truss CE	Truss Type COMMON STRUCTURAL GA	Qty 1	Ply 1	KB Home 237.3723.A Rev 2 Job Reference (optional)	I51172582
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8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 10:29:17 2022 Page 3
ID:ytBjKryWUodVVgHGUH7JdBzXTGY-8yrYdkJaZ5u8UEAVqSmdgATos4VQue__?QhewlzToGm

LOAD CASE(S)

Uniform Loads (plf)

Vert: 1-4=4, 4-7=4, 2-6=-12

Horz: 1-4=-16, 4-7=16

23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-20, 2-6=-20

24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-60, 2-6=-20

25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-50, 4-7=-20, 2-6=-20

26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-20, 4-7=-50, 2-6=-20

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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818 Soundside Road
Edenton, NC 27932

Job 237_2723_A_R2	Truss V1	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172583
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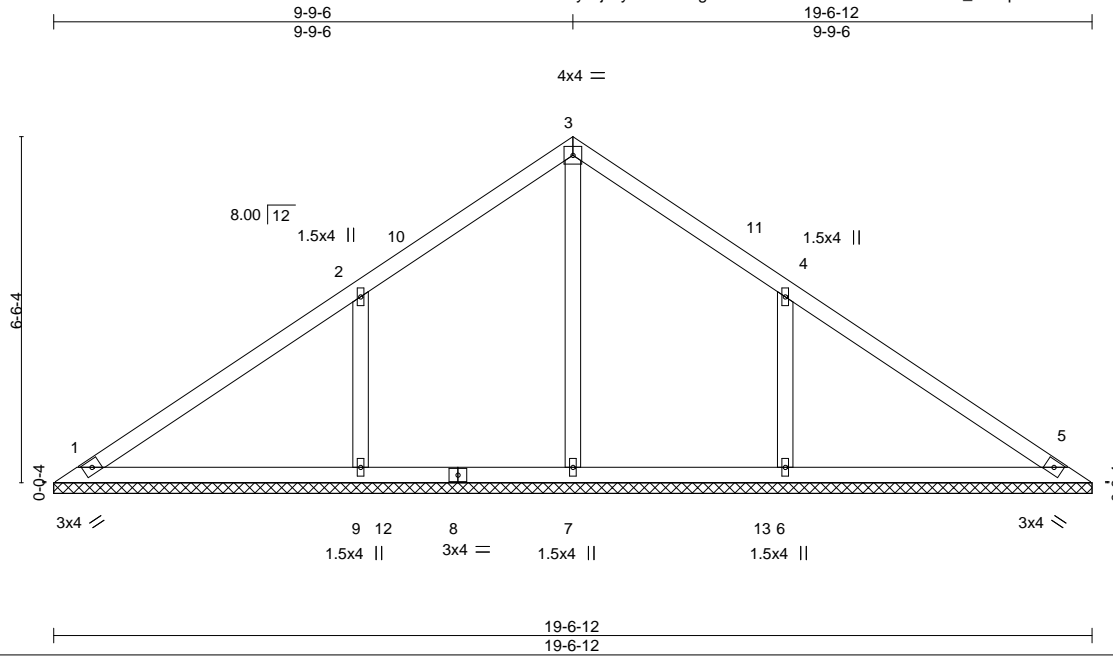
84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:07 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-HLMniUCaCm_abXqv9RZV8ECm8vjyLYtvLY3OKBzTrLo

19-6-12
9-9-6



Scale = 1:43.4

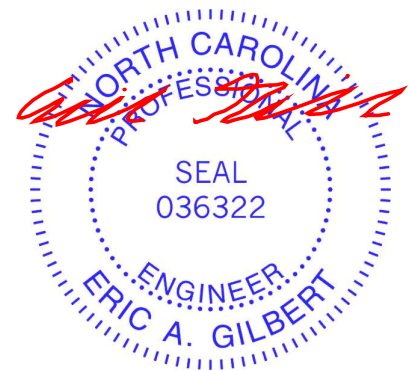
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.25	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 81 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 19-6-12.
 (lb) - Max Horz 1=-131(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-139(LC 14), 6=-139(LC 15)
 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)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-355/195, 4-6=-355/195

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=6.0psf; BC DL=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
 - 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
 - Gable requires continuous bottom chord bearing.
 - 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.
 - N/A
 - N/A
 - 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.



April 6, 2022

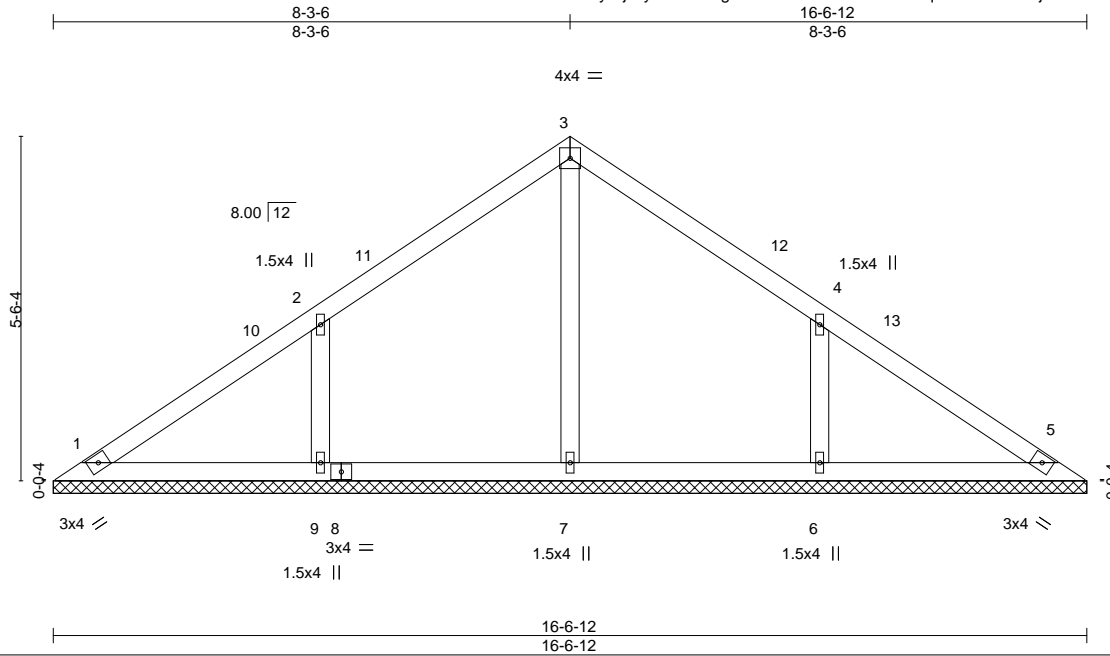
Job 237_2723_A_R2	Truss V2	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172584
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:08 2022 Page 1

ID:ytBjKryWUodVvGHGUH7JdBzXTGY-IXw9VqDCz36RDhP6j84khRk?2J564?L2ZCpxtezTrLn



Scale = 1:36.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 67 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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.

REACTIONS. All bearings 16-6-12.
 (lb) - Max Horz 1=-110(LC 10)
 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.
WEBS 2-9=-287/161, 4-6=-287/160

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - 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
 - 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
 - Gable requires continuous bottom chord bearing.
 - 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.
 - N/A
 - N/A
 - 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.



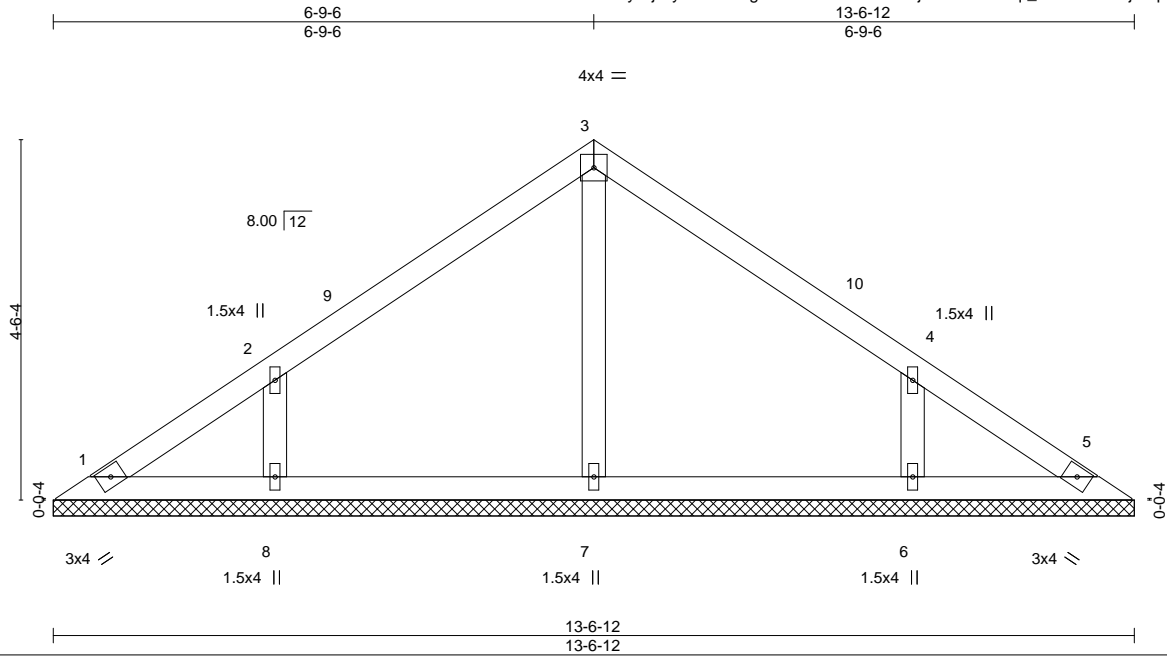
April 6, 2022

Job 237_2723_A_R2	Truss V3	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172585
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:09 2022 Page 1

ID:ytBjKryWUodVvGhGUH7JdBzXTGY-DjUXiAErkNElqr_IGrbzDfHABjRRRSpzBosYVP4zTrLm



Scale = 1:28.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 52 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3

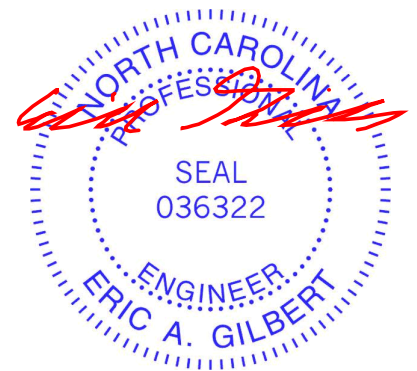
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-6-12.
(lb) - Max Horz 1=89(LC 10)
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.



April 6, 2022

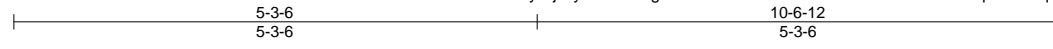
Job 237_2723_A_R2	Truss V4	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2	151172586
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84 Components (Dunn),

Dunn, NC - 28334,

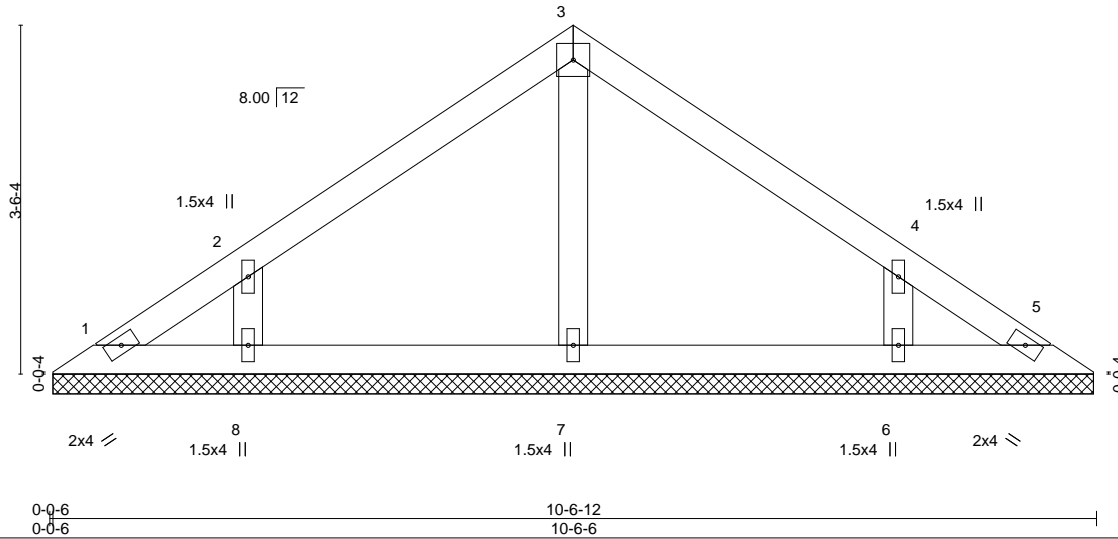
8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:10 2022 Page 1

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4x4 =

Scale = 1:23.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 39 lb	FT = 20%

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

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.

REACTIONS. All bearings 10-6-0.
 (lb) - Max Horz 1=67(LC 10)
 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.
 - 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.



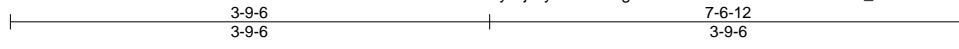
April 6, 2022

Job 237_2723_A_R2	Truss V5	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2 Job Reference (optional)	151172587
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84 Components (Dunn), Dunn, NC - 28334,

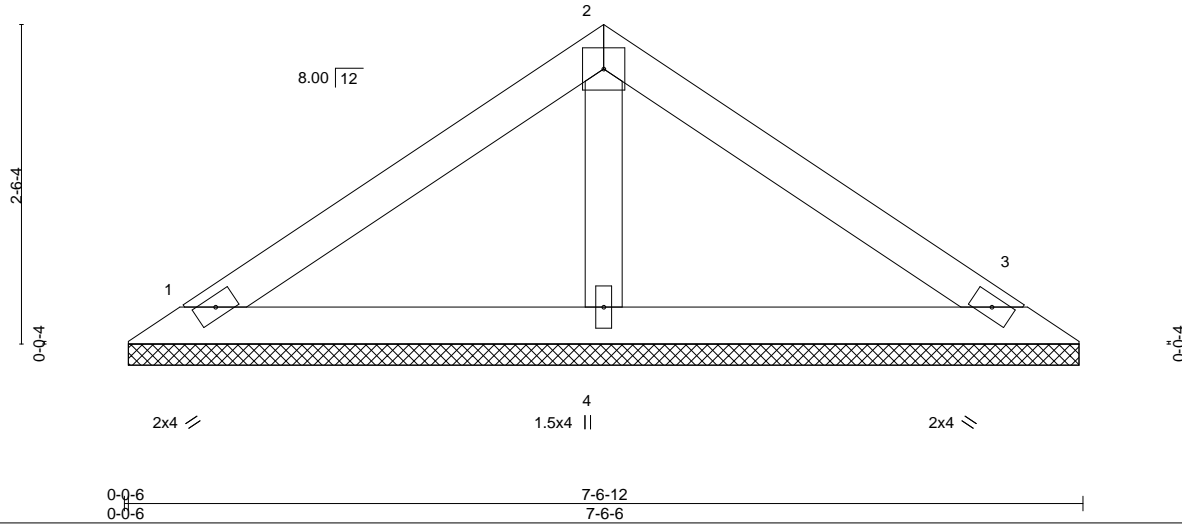
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4x4 =

Scale = 1:18.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Plate Grip DOL 1.15	BC 0.19	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 26 lb	FT = 20%

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

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.

REACTIONS. (size) 1=7-6-0, 3=7-6-0, 4=7-6-0
 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.
- 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) 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.



April 6, 2022

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

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

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

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



818 Soundside Road
 Edenton, NC 27932

Job 237_2723_A_R2	Truss V6	Truss Type Valley	Qty 1	Ply 1	KB Home 237.3723.A Rev 2 Job Reference (optional)	151172588
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Tue Apr 5 06:59:12 2022 Page 1
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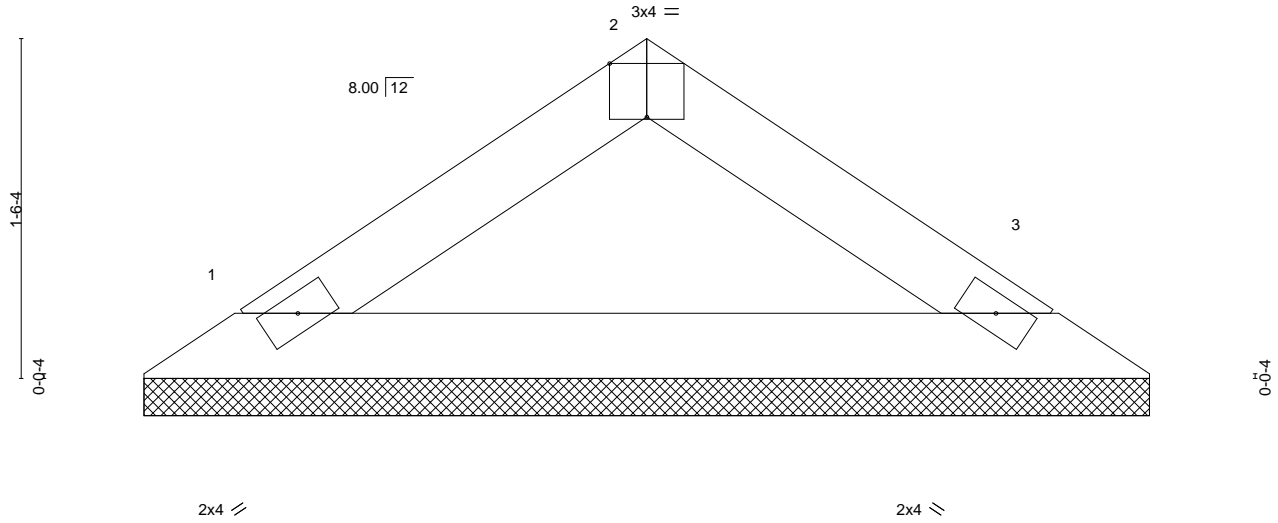


Plate Offsets (X,Y)-- [2:0-2-0,Edge]	0-0-6 0-0-6	4-6-12 4-6-6
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 11.6/15.0	Lumber DOL 1.15	BC 0.27	Vert(CT) n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P						
BCDL 10.0							Weight: 13 lb	FT = 20%

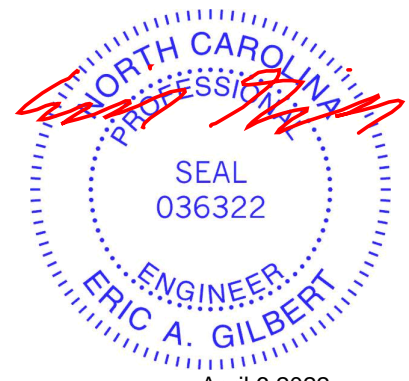
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.3	TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-6-0, 3=4-6-0
 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-

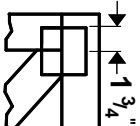
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left 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.
- 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) 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.



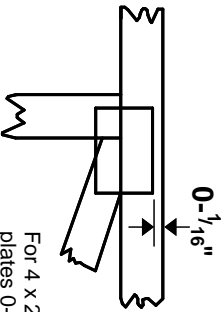
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A MITEK Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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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- 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 X 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



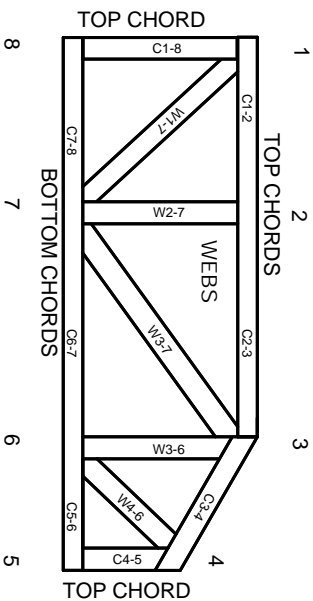
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.