

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 237_2723_C
KB Home 237.2723.C

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: I49667134 thru I49667165

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



January 12, 2022

Johnson, Andrew

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_C	Truss A	Truss Type ROOF TRUSS	Qty 5	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667134
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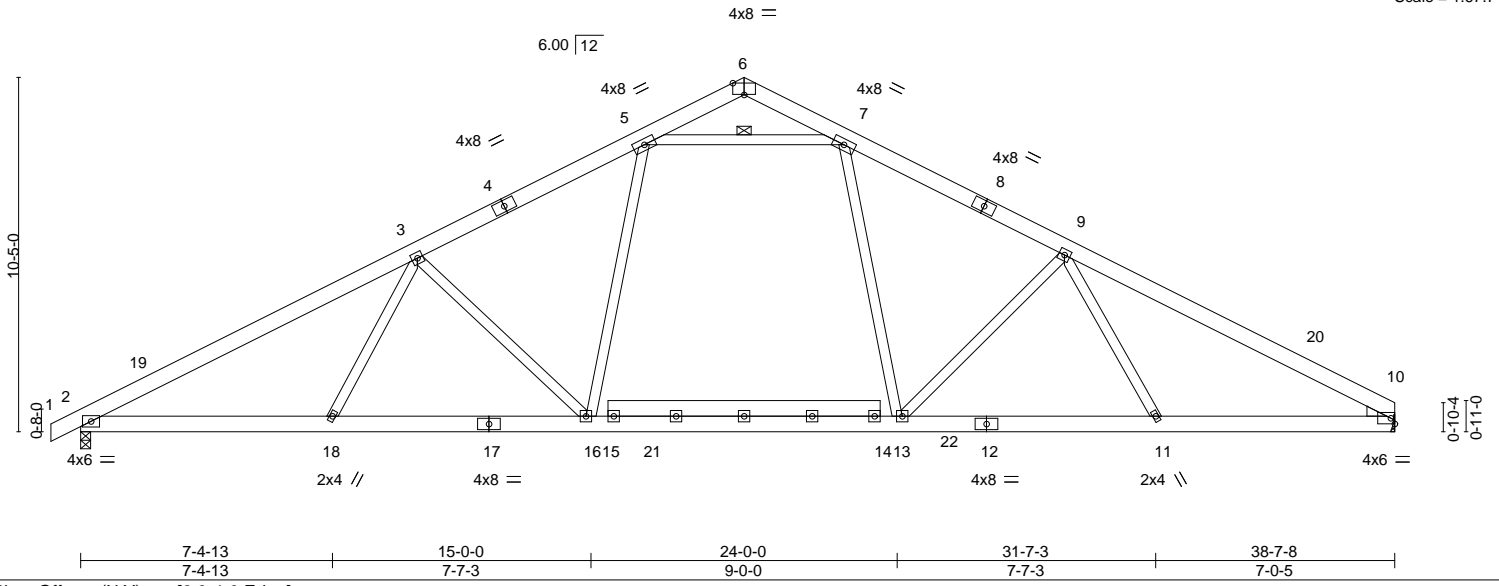
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:35 2022 Page 1

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Scale = 1:67.7



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 0.73	Vert(LL)	-0.23	16-18	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.34	16-18	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.09	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-9 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 5-7
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 10=Mechanical
 Max Horz 2=141(LC 16)
 Max Uplift 2=-73(LC 12), 10=-56(LC 13)
 Max Grav 2=1738(LC 2), 10=1686(LC 2)

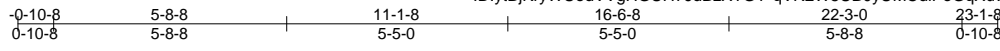
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3067/94, 3-5=-2388/146, 5-6=-250/70, 6-7=-255/69, 7-9=-2381/152, 9-10=-3014/86
 BOT CHORD 2-18=-118/2623, 16-18=-145/2470, 13-16=0/1911, 11-13=-14/2411, 10-11=0/2560
 WEBS 3-18=0/379, 3-16=-727/232, 5-16=-18/781, 7-13=-26/765, 9-13=-680/234, 9-11=0/362, 5-7=-1735/122

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 19-6-0, Exterior(2R) 19-6-0 to 22-6-7, Interior(1) 22-6-7 to 38-6-12 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) All plates are 4x4 MT20 unless otherwise indicated.
 - 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) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
 - 8) 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.
 - 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) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Job 237_2723_C	Truss B1	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667136
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4x6 =

Scale = 1:56.4

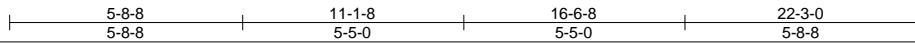
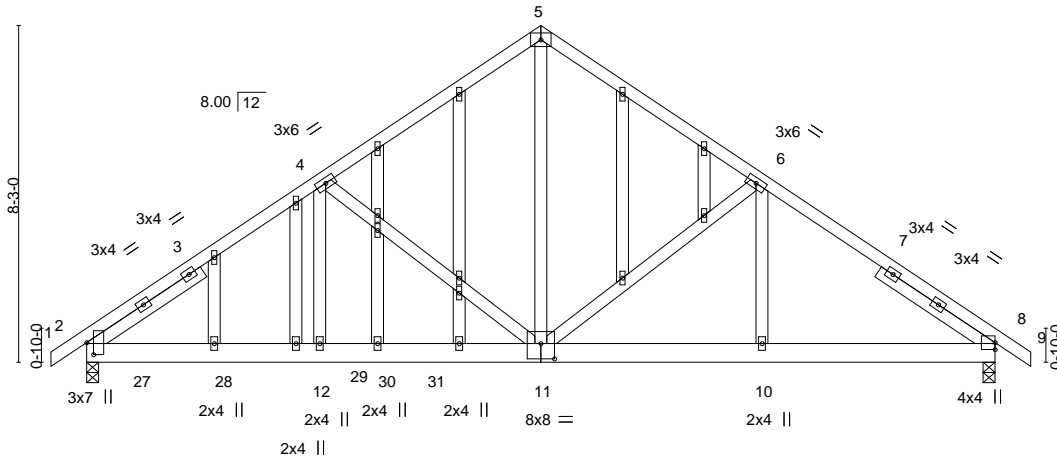


Plate Offsets (X,Y)--	[2:0-3-9,0-2-0], [11:0-4-0,0-4-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.06 11-12 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.12 11-12 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 182 lb	FT = 20%

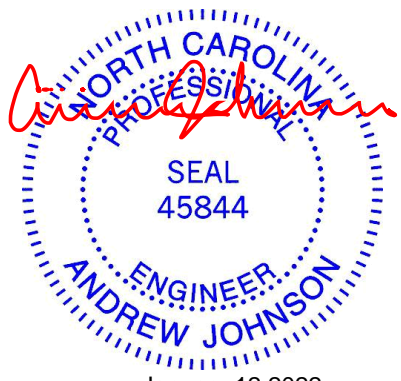
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-3-7 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 3-4-4, Right 2x4 SP No.3 3-4-4	

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=160(LC 28)
 Max Uplift 2=-154(LC 8), 8=-76(LC 9)
 Max Grav 2=1302(LC 1), 8=1106(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1758/197, 4-5=-1170/167, 5-6=-1171/168, 6-8=-1473/111
 BOT CHORD 2-12=-180/1355, 11-12=-180/1355, 10-11=-171/127, 8-10=-171/127
 WEBS 5-11=-95/874, 6-11=-384/164, 4-11=-602/210, 4-12=-40/409

- 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; cantilever left and right exposed; end vertical left and right exposed; 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) 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.
 - 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) 49 lb down and 36 lb up at 1-3-12, 49 lb down and 36 lb up at 3-3-12, 49 lb down and 36 lb up at 5-3-12, and 49 lb down and 36 lb up at 7-3-12, and 329 lb down and 50 lb up at 8-6-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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

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

Job 237_2723_C	Truss B1	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.2723.C I49667136 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:37 2022 Page 2
ID:ytBjKryWUodVVgHGUH7JdBzXTGY-qVR2W5UB0yUMCdlPeGqXuw87ktQy56Z6YhHz3Lzw7NW

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-60, 5-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 27=-49(F) 28=-49(F) 29=-49(F) 30=-49(F) 31=-329(F)

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

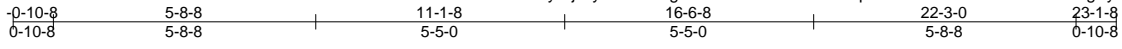
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



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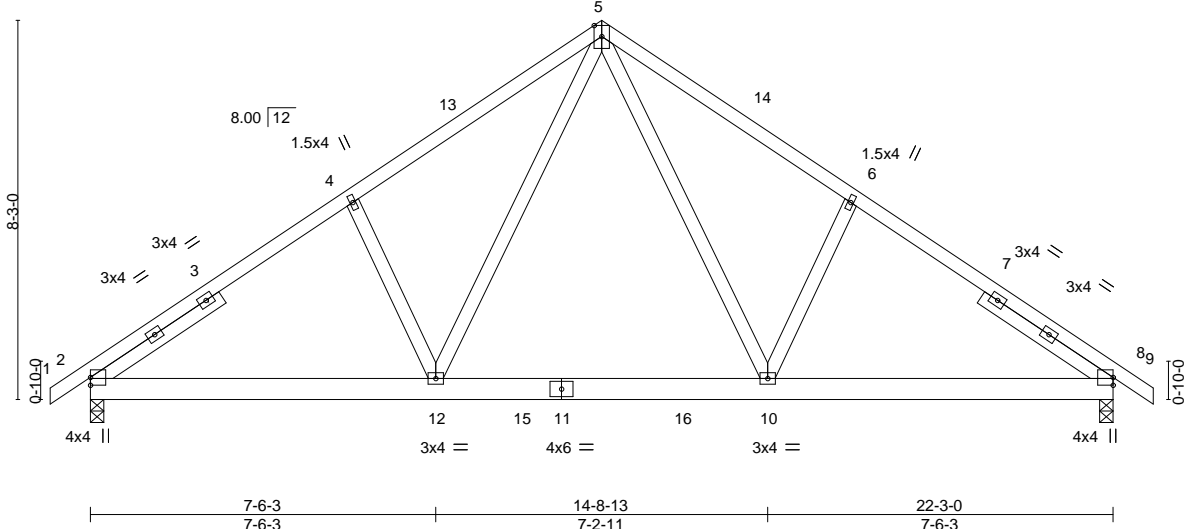
Job 237_2723_C	Truss B2	Truss Type Common	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667137
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4x6 ||

Scale = 1:50.1



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 0.36	Vert(LL) -0.05	10-12	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT) -0.09	10-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.22	Horz(CT) 0.02	8	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					
							Weight: 143 lb	FT = 20%

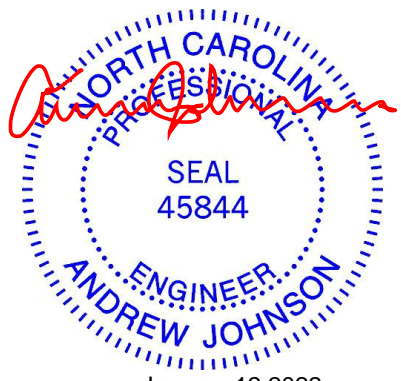
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 3-4-7, Right 2x4 SP No.3 3-4-7

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=-160(LC 10)
Max Uplift 2=-38(LC 12), 8=-38(LC 13)
Max Grav 2=1052(LC 19), 8=1052(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1317/65, 4-5=-1212/124, 5-6=-1212/125, 6-8=-1317/65
BOT CHORD 2-12=-69/1116, 10-12=0/762, 8-10=0/1015
WEBS 5-10=-79/594, 6-10=-267/173, 5-12=-79/593, 4-12=-267/173

- 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; BCDL=6.0psf; h=25ft; 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
 - 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.
 - 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.
 - 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.



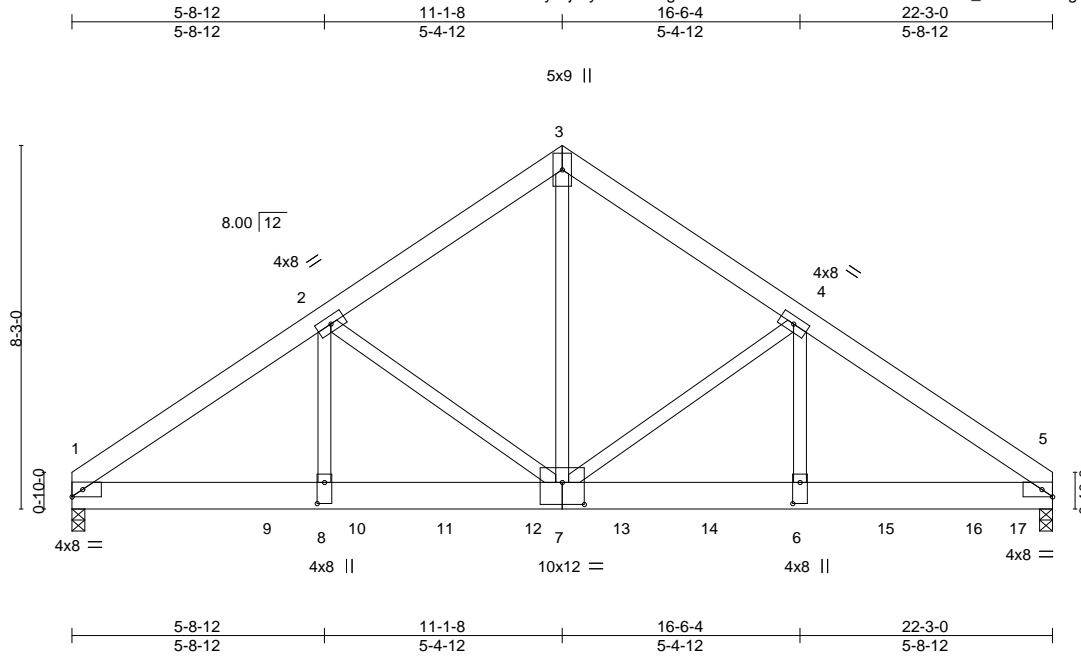
Job 237_2723_C	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 3	KB Home 237.2723.C Job Reference (optional)	149667138
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:40 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-E47B87W4JtsW35U_KONEWZmg74VZIqPVEfVdggzw7NT



Scale = 1:52.3

Plate Offsets (X,Y)--	[6:0-5-12,0-2-0], [7:0-6-0,0-6-0], [8:0-5-12,0-2-0]				
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 0.36	Vert(LL) -0.09 7-8 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.16 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Horz(CT) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 517 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x8 SP DSS	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	
3-7: 2x4 SP No.2 or 2x4 SPF No.2	

REACTIONS. (size) 1=(0-3-8 + LGT3-SDS2.5 Simpson Strong-Tie) (req. 0-4-0), 5=(0-3-8 + TBE4 Simpson Strong-Tie) (req. 0-5-11)
 Max Horz 1=-153(LC 25)
 Max Uplift 1=-871(LC 8), 5=-619(LC 9)
 Max Grav 1=7642(LC 1), 5=10827(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-12086/1316, 2-3=-8724/749, 3-4=-8730/750, 4-5=-13072/839
 BOT CHORD 1-8=-1093/9700, 7-8=-1093/9700, 6-7=-615/10529, 5-6=-615/10529
 WEBS 3-7=-736/9271, 4-7=-4140/253, 4-6=-122/5075, 2-7=-3475/736, 2-8=-694/4271

- 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 0-4-0 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=25ft; 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
 - 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.
 - LGT3-SDS2.5 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
 - TBE4 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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.



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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Job 237_2723_C	Truss BG	Truss Type COMMON GIRDER	Qty 1	Ply 3	KB Home 237.2723.C I49667138 Job Reference (optional)
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:40 2022 Page 2
ID:ytBjKryWUodVVgHGdUH7JdBzXTGY-E47B87W4Jtsw35U_KONEWZmg74VZIQpYEFvdggzw7NT

NOTES-

- 10) LGT3 Hurricane ties must have three studs in line below the truss.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2412 lb down and 622 lb up at 4-6-0, 1519 lb down and 156 lb up at 6-5-4, 1704 lb down and 153 lb up at 8-5-4, 1717 lb down and 150 lb up at 10-5-4, 1677 lb down and 61 lb up at 12-5-4, 1666 lb down and 76 lb up at 14-5-4, 1666 lb down and 76 lb up at 16-5-4, 1666 lb down and 76 lb up at 18-5-4, and 1666 lb down and 76 lb up at 20-5-4, and 1669 lb down and 73 lb up at 21-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-1516(B) 9=-2412(B) 10=-1519(B) 11=-1519(B) 12=-1513(B) 13=-1518(B) 14=-1516(B) 15=-1516(B) 16=-1516(B) 17=-1519(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



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Edenton, NC 27932

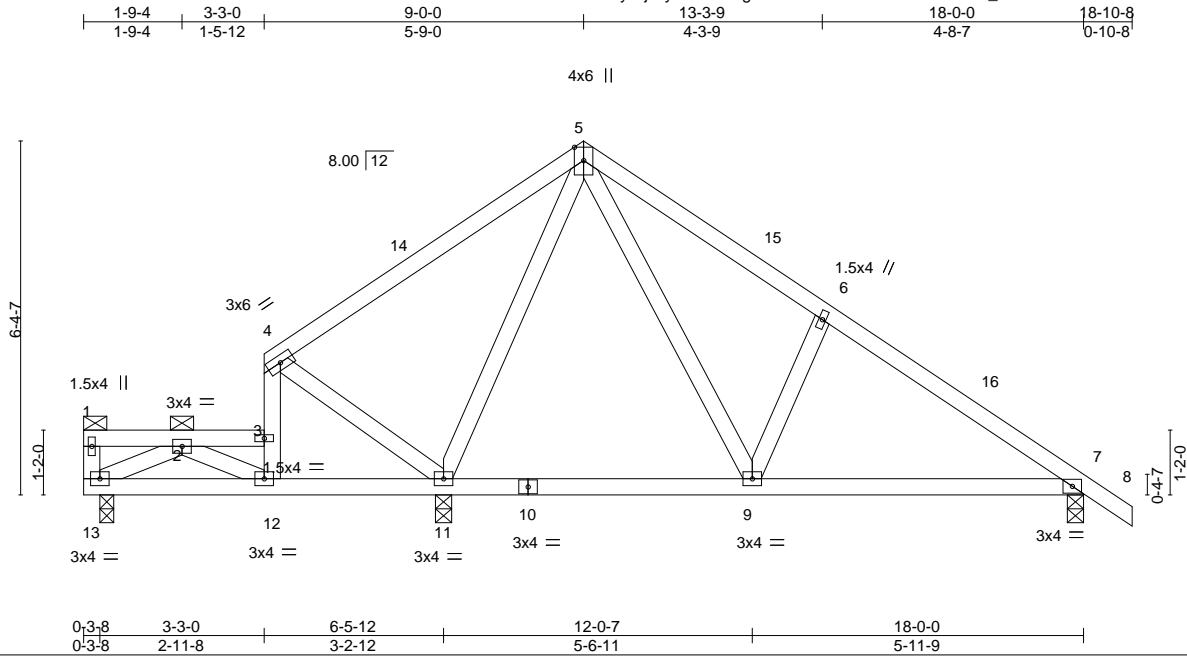
Job 237_2723_C	Truss C1	Truss Type Roof Special	Qty 1	Ply 1	KB Home 237.2723.C	149667139
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:41 2022 Page 1

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Scale = 1:41.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.32	Vert(LL) -0.03 7-9 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.06 7-9 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.00 7 n/a n/a	Weight: 98 lb	FT = 20%
	Code IRC2018/TPI2014				

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

BRACING-

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.): 1-3.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 13=0-3-0, 11=0-3-8, 7=0-3-8
 Max Horz 13=134(LC 8)
 Max Uplift 13=20(LC 8), 11=15(LC 12), 7=35(LC 13)
 Max Grav 13=562(LC 19), 11=1304(LC 1), 7=387(LC 26)

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

TOP CHORD 4-5=-15/622, 6-7=-352/40
 BOT CHORD 12-13=-34/665
 WEBS 2-12=-569/33, 3-12=0/304, 3-4=0/520, 4-11=-617/69, 5-11=-932/48, 5-9=-60/406, 6-9=-255/137, 2-13=-599/53

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; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-12, Interior(1) 3-4-12 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 18-10-8 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
- Provide adequate drainage to prevent water ponding.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13, 11, and 7. 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-277(F=-190), 4-5=-60, 5-8=-60, 7-13=-20



January 12, 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

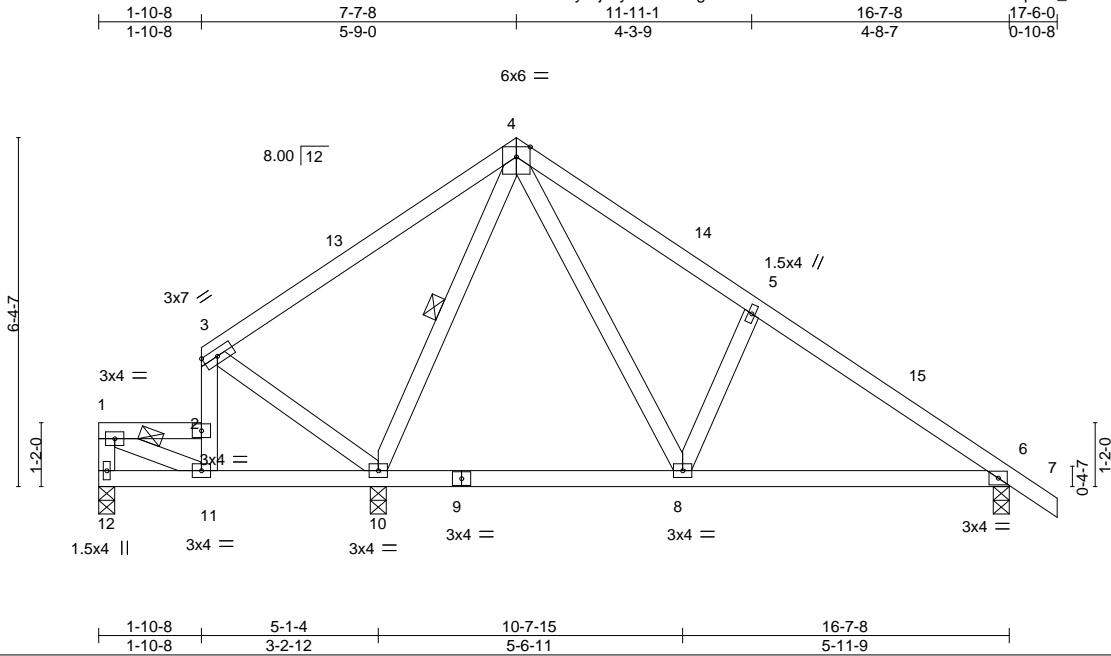
Job 237_2723_C	Truss C2	Truss Type Roof Special	Qty 3	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667140
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:42 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-ATFxZoYKrU7elOeMRpPib_rvLuDOmLxriz_kkZzw7NR



Scale = 1:42.1

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 0.83	Vert(LL)	-0.03	6-8	>999	MT20	197/144
BDDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.07	6-8	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.65	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 91 lb	FT = 20%

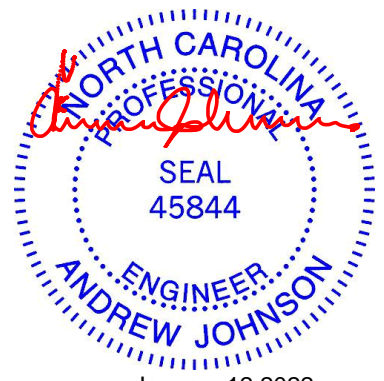
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 3-11: 2x4 SP No.2 or 2x4 SPF No.2	WEBS 1 Row at midpt 4-10

REACTIONS. (size) 12=0-3-8, 10=0-3-8, 6=0-3-8
 Max Horz 12=-134(LC 8)
 Max Uplift 12=-10(LC 12), 10=-94(LC 12), 6=-29(LC 17)
 Max Grav 12=314(LC 27), 10=2013(LC 19), 6=249(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-325/29, 3-4=-63/1042, 4-5=-99/279
 BOT CHORD 8-10=-309/148
 WEBS 1-11=-31/296, 2-3=-57/1083, 3-10=-1166/129, 4-10=-1301/103, 4-8=-60/407,
 5-8=-261/138

- 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; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-0-4, Interior(1) 2-0-4 to 7-7-8, Exterior(2R) 7-7-8 to 10-7-8, Interior(1) 10-7-8 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12, 10, and 6. 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 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.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-87(F=-27), 3-4=-60, 4-7=-60, 6-12=-20



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

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

Job 237_2723_C	Truss C2	Truss Type Roof Special	Qty 3	Ply 1	KB Home 237.2723.C Job Reference (optional)	I49667140
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:43 2022 Page 2
ID:ytBjKryWUodVVgHGUAH7JdBzXTGY-ffoJm8ZycoFVwYDZ?Xwx8BO45IZdVnB_xdkHG?zw7NQ

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 2=-1090(F)

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

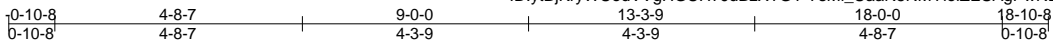
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss CE	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667141
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84 Components (Dunn), Dunn, NC - 28334, 8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:44 2022 Page 1



Scale = 1:43.8

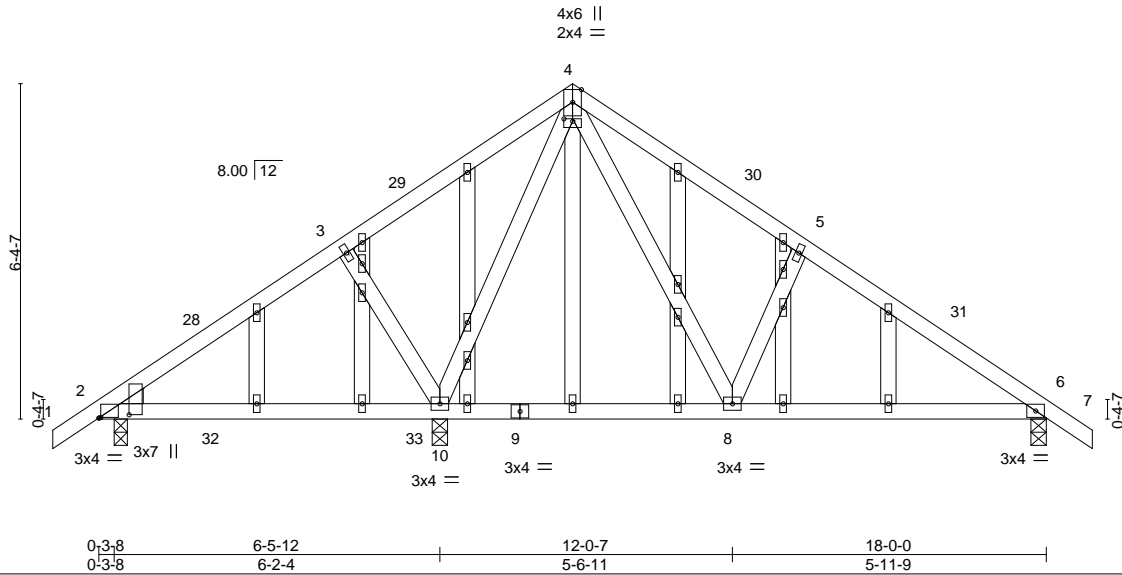


Plate Offsets (X,Y)--	[2:0-0-12,0-6-14], [2:0-0-7,0-0-2], [4:0-2-0,0-0-9]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.28	Vert(LL)	0.08	2-10	>998	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.30	Vert(CT)	-0.09	2-10	>885		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 128 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.
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	
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-0, 10=0-3-8, 6=0-3-8
 Max Horz 2=132(LC 11)
 Max Uplift 2=-10(LC 12), 10=-39(LC 12), 6=-42(LC 13)
 Max Grav 2=268(LC 25), 10=810(LC 1), 6=480(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-406/111, 5-6=-511/54
 BOT CHORD 6-8=0/365
 WEBS 3-10=-265/138, 4-10=-492/15, 4-8=-68/410, 5-8=-259/139

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-0-0, Exterior(2R) 9-0-0 to 12-0-0, Interior(1) 12-0-0 to 18-10-8 zone; cantilever left and right exposed; end vertical right exposed; porch left 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 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) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, 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.

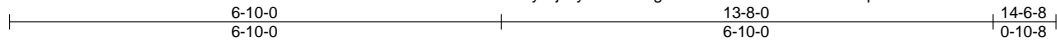


Job 237_2723_C	Truss D1	Truss Type Common	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667142
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:45 2022 Page 1

ID:ytBjKryWUodVvGHGUH7JdBzXTGY-b2w4BqaD8PVD9sNx6xzPDcTSs5GizptHOxDOLuzw7NO



4x6 =

Scale: 3/8"=1'

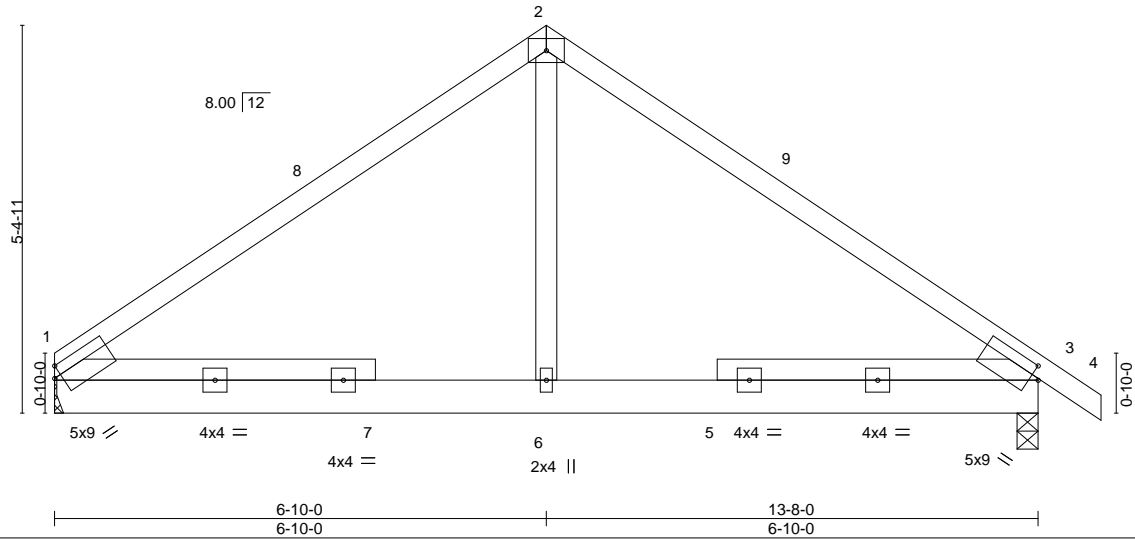


Plate Offsets (X,Y)--	[1:Edge,0-1-12], [3:0-1-5,0-2-0]
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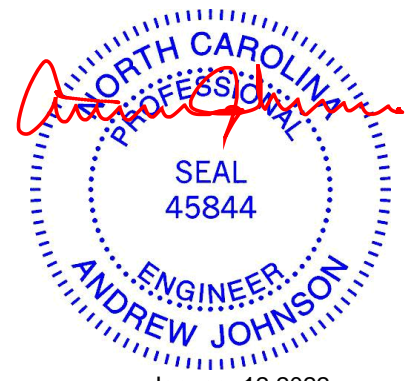
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.68	Vert(LL)	-0.01	3-6	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.03	3-6	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 79 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-10-5 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	
SLIDER Left 2x4 SP No.3 4-5-8, Right 2x4 SP No.3 4-5-8	

REACTIONS. (size) 1=Mechanical, 3=0-3-8
 Max Horz 1=-102(LC 8)
 Max Uplift 1=-14(LC 12), 3=-28(LC 13)
 Max Grav 1=545(LC 1), 3=601(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-650/81, 2-3=-658/85
 BOT CHORD 1-6=0/427, 3-6=0/427
 WEBS 2-6=0/342

- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-10-0, Exterior(2R) 6-10-0 to 9-10-0, Interior(1) 9-10-0 to 14-6-8 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) 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1.
 - 7) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3. 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.



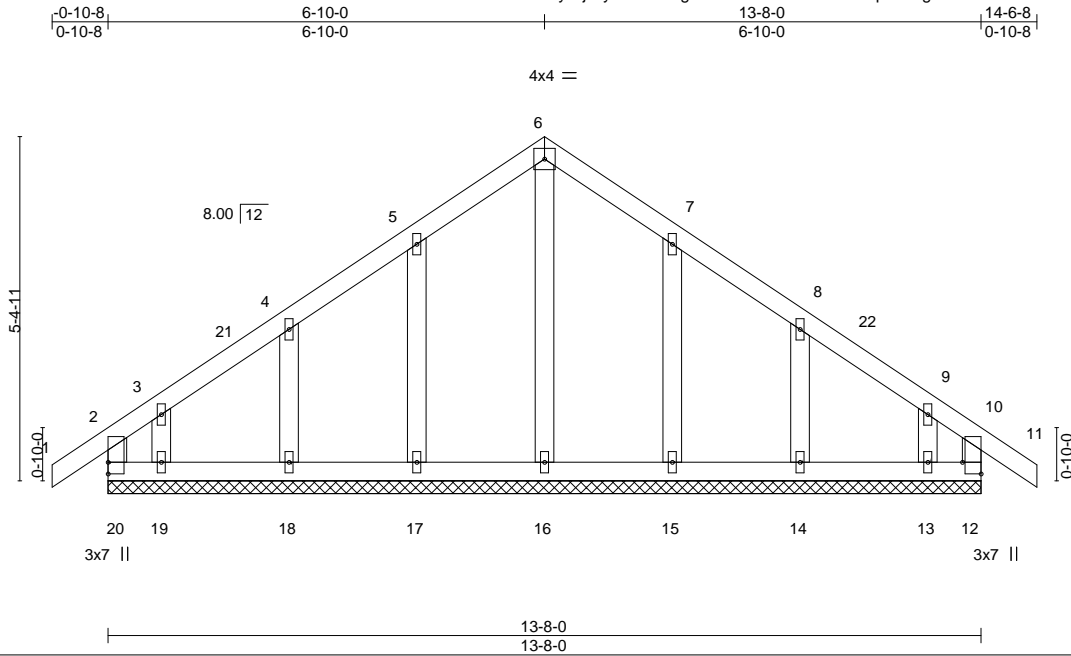
Job 237_2723_C	Truss DE	Truss Type Common Supported Gable	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667143
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84 Components (Dunn),

Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:47 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdEzXTGY-XQ2qcWcTg0lxP9WKEM?tl1Yxav_TRITarFivPmz7NM



Scale = 1:36.1

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 0.09	Vert(LL)	-0.00	11	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	11	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 76 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 13-8-0.
 (lb) - Max Horz 20=121(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13
 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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=25ft; 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 6-10-0, Corner(3R) 6-10-0 to 9-10-0, Exterior(2N) 9-10-0 to 14-6-8 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) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * 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.
 - 10) N/A
 - 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.

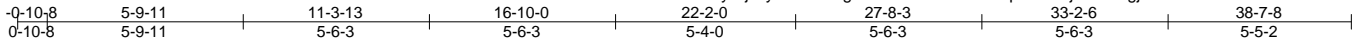


Job 237_2723_C	Truss H1	Truss Type Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667144
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:49 2022 Page 1

ID:ytBjKryWUodVvgHGUH7JdBzXTGY-TpAb1CdjBe?feTgJLn1LNSe5uiXMvV6tJZBbUfzw7NK



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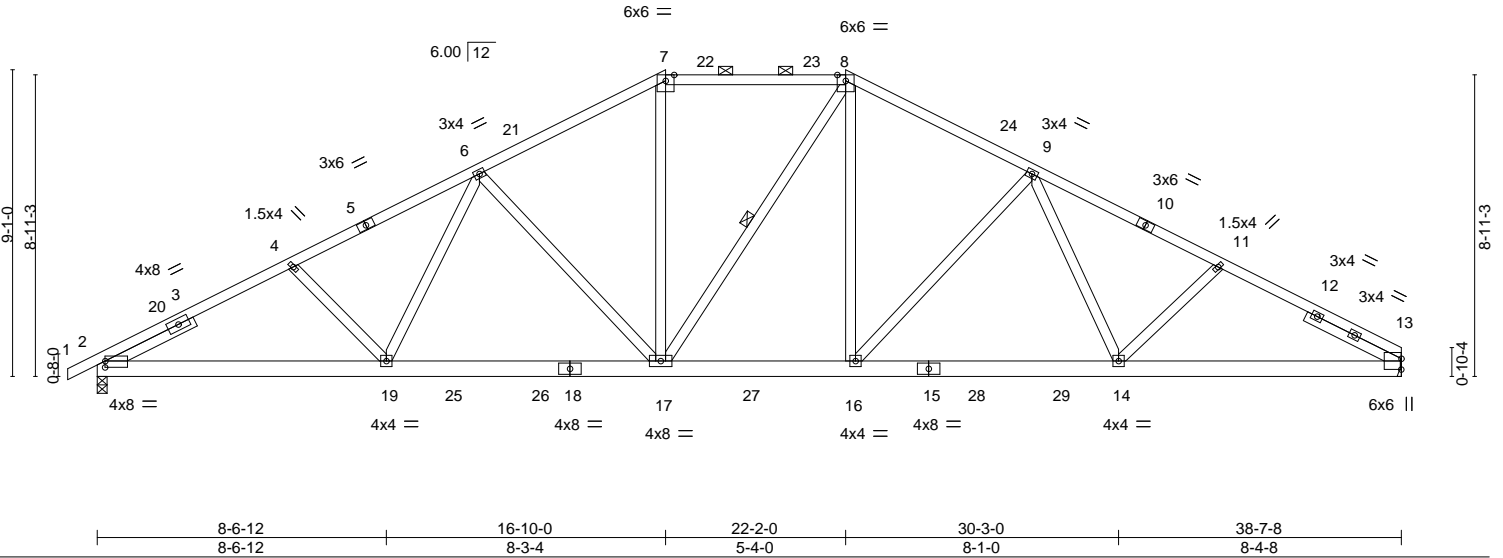


Plate Offsets (X,Y)--	[2:0-0-1,0-2-4], [13:0-3-13,0-0-1]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.87	Vert(LL) -0.17 17-19 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.31 17-19 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.09 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 10-13: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-6 max.): 7-8.
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 8-17
SLIDER Left 2x4 SP No.3 2-10-14, Right 2x4 SP No.3 3-1-9	

REACTIONS. (size) 2=0-3-8, 13=Mechanical
 Max Horz 2=121(LC 16)
 Max Uplift 2=-59(LC 12), 13=-41(LC 13)
 Max Grav 2=1746(LC 2), 13=1697(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2983/105, 4-6=-2807/110, 6-7=-2205/153, 7-8=-1909/161, 8-9=-2201/154,
 9-11=-2749/112, 11-13=-2907/112
 BOT CHORD 2-19=-135/2551, 17-19=-45/2296, 16-17=0/1905, 14-16=0/2279, 13-14=-36/2458
 WEBS 6-19=0/447, 6-17=-568/148, 7-17=0/682, 8-16=-32/684, 9-16=-550/146, 9-14=0/393

- 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; 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 16-10-0, Exterior(2R) 16-10-0 to 21-0-15, Interior(1) 21-0-15 to 22-2-0, Exterior(2R) 22-2-0 to 26-4-15, Interior(1) 26-4-15 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13.
 - 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 237_2723_C	Truss H2	Truss Type Half Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667145
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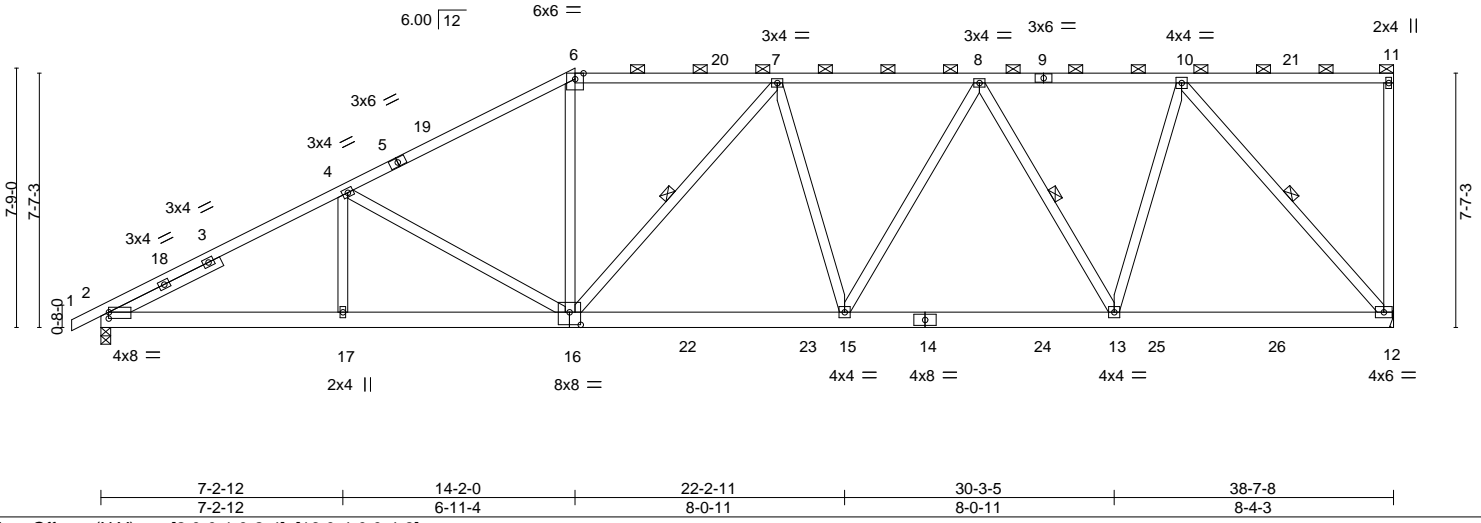
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:50 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-y?jzEXeLyx7WGdFvVYawgAG86tOeug0YDw905zw7NJ



Scale = 1:68.8



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 0.78	Vert(LL)	-0.16	15-16	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.29	15-16	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93	Horz(CT)	0.08	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 266 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-6: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-8 max.): 6-11.
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 7-16, 8-13, 10-12
SLIDER Left 2x4 SP No.3 3-8-6	

REACTIONS. (size) 12=Mechanical, 2=0-3-8
 Max Horz 2=232(LC 9)
 Max Uplift 12=130(LC 9), 2=39(LC 12)
 Max Grav 12=1737(LC 2), 2=1732(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2970/74, 4-6=-2452/109, 6-7=-2118/121, 7-8=-2265/110, 8-10=-1587/102
 BOT CHORD 2-17=-239/2542, 16-17=-239/2542, 15-16=-217/2299, 13-15=-200/2007, 12-13=-150/1271
 WEBS 4-17=0/254, 4-16=-496/147, 6-16=0/751, 7-16=-389/127, 8-15=-4/530, 8-13=-863/112, 10-13=0/1177, 10-12=-1934/156

- 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; 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 14-2-0, Exterior(2R) 14-2-0 to 18-4-15, Interior(1) 18-4-15 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=130.
 - 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



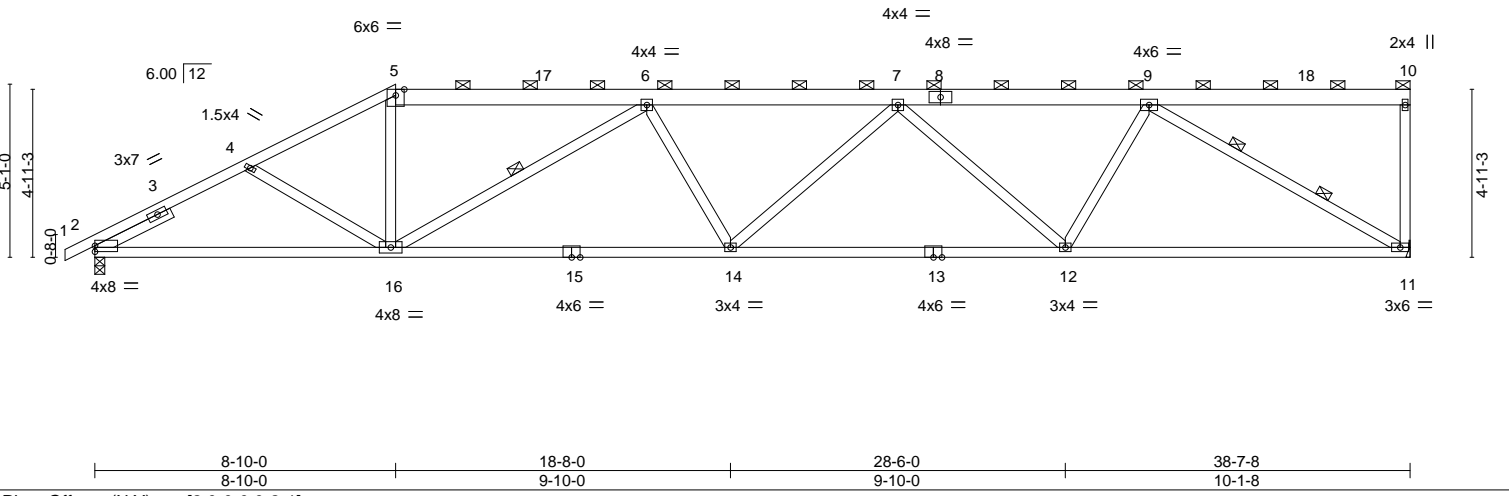
Job 237_2723_C	Truss H4	Truss Type Half Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667147
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84 Components (Dunn), Dunn, NC - 28334,

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ID:ytBjKryWUodVVgHGUH7JdBzXTGY-MaP5tZhEFsV474_Uad6HYlon_KlrH4SEB9pdQzw7NG
 -0-10-8 4-6-12 8-10-0 16-2-8 23-7-0 30-11-8 38-7-8
 0-10-8 4-6-12 4-3-4 7-4-8 7-4-8 7-4-8 7-8-0

Scale = 1:67.7



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 0.80	Vert(LL)	-0.25	11-12	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.53	11-12	>864		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.15	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 226 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.2 *Except* 1-5: 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-8 max.): 5-10.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-16
SLIDER Left 2x4 SP No.3 2-5-13	2 Rows at 1/3 pts 9-11

REACTIONS. (size) 11=Mechanical, 2=0-3-8
 Max Horz 2=145(LC 11)
 Max Uplift 11=136(LC 9), 2=-39(LC 9)
 Max Grav 11=1539(LC 1), 2=1592(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2717/135, 4-5=-2577/138, 5-6=-2280/136, 6-7=-3249/222, 7-9=-2512/180
 BOT CHORD 2-16=-221/2292, 14-16=-323/3214, 12-14=-321/3111, 11-12=-236/2099
 WEBS 5-16=0/759, 6-16=-1176/194, 7-14=0/264, 7-12=-816/141, 9-12=0/871, 9-11=-2418/250

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-10-0, Exterior(2R) 8-10-0 to 13-0-15, Interior(1) 13-0-15 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) Provide adequate drainage to prevent water ponding.
 - 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=136.
 - 8) 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.
 - 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



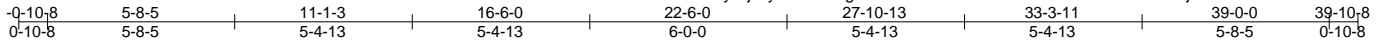
January 12, 2022

Job 237_2723_C	Truss H5	Truss Type ROOF TRUSS	Qty 1	Ply 1	KB Home 237.2723.C	149667148
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84 Components (Dunn), Dunn, NC - 28334,

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ID:ytBjKryWUodVvgHGUH7JdBzXTGY-IzXsHFIUnUloMO7si28ldju5a7YRJEWhVewhJzw7NE



Scale = 1:70.1

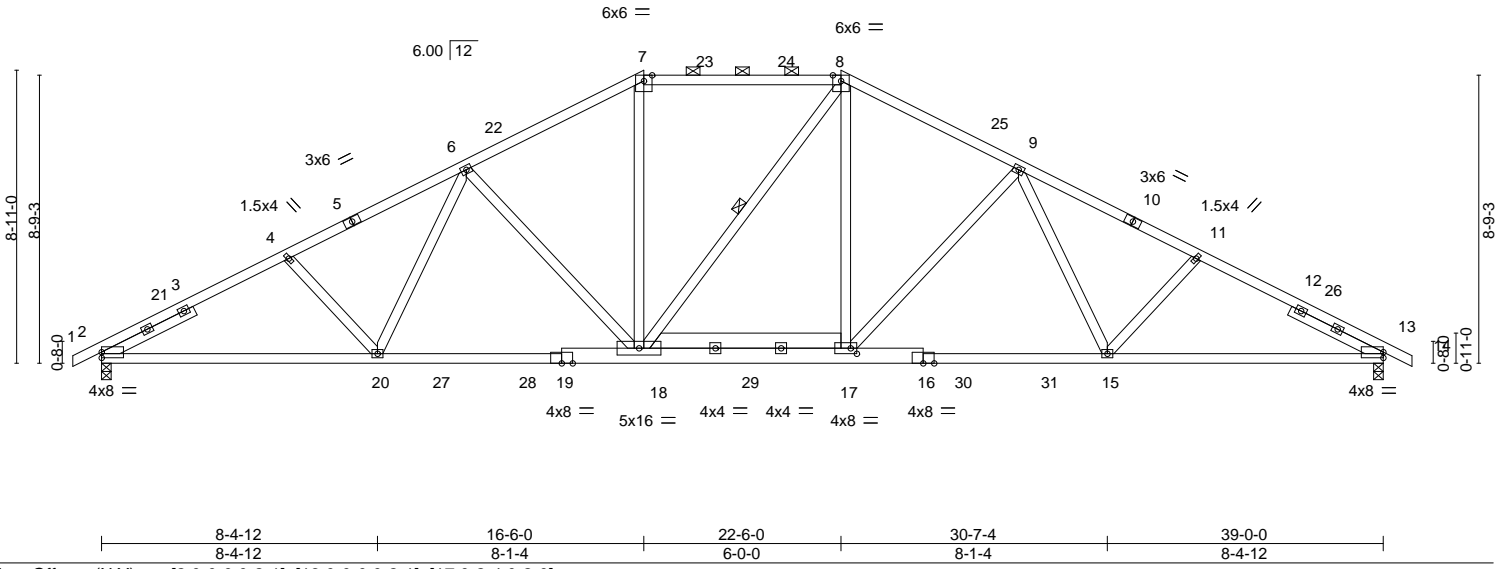


Plate Offsets (X,Y)--	[2:0-0-0,0-2-1], [13:0-0-0,0-2-1], [17:0-2-4,0-2-0]				
LOADING (psf)	SPACING 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.19 15-17 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.34 2-20 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.63	Horz(CT) 0.12 13 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 249 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-1-9 max.): 7-8.
BOT CHORD 2x4 SP No.1 *Except* 16-19,17-18: 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 8-18
SLIDER Left 2x4 SP No.3 3-1-9, Right 2x4 SP No.3 3-1-9	

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=116(LC 12)
 Max Uplift 2=-54(LC 12), 13=-54(LC 13)
 Max Grav 2=1761(LC 2), 13=1765(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3017/105, 4-6=-2844/111, 6-7=-2268/144, 7-8=-2010/151, 8-9=-2294/148, 9-11=-2859/112, 11-13=-3031/106
 BOT CHORD 2-20=-131/2576, 18-20=-39/2366, 17-18=0/1994, 15-17=0/2364, 13-15=-35/2587
 WEBS 6-20=0/391, 6-18=-536/150, 7-18=0/695, 8-17=-30/684, 9-17=-542/149, 9-15=-3/415

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 16-6-0, Exterior(2R) 16-6-0 to 20-8-15, Interior(1) 20-8-15 to 22-6-0, Exterior(2R) 22-6-0 to 26-8-15, Interior(1) 26-8-15 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 3x4 MT20 unless otherwise indicated.
 - 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 13. 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.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 10) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



Job 237_2723_C	Truss H6	Truss Type Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667149
					Job Reference (optional)	

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

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:57 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-EMfcixkkJ5?WbiHFpTADi8zRyxBjn8F29p70mBzw7NC

-0-10-8	7-2-12	14-2-0	19-6-0	24-10-0	31-9-4	39-0-0	39-10-8
0-10-8	7-2-12	6-11-4	5-4-0	5-4-0	6-11-4	7-2-12	0-10-8

Scale = 1:69.4

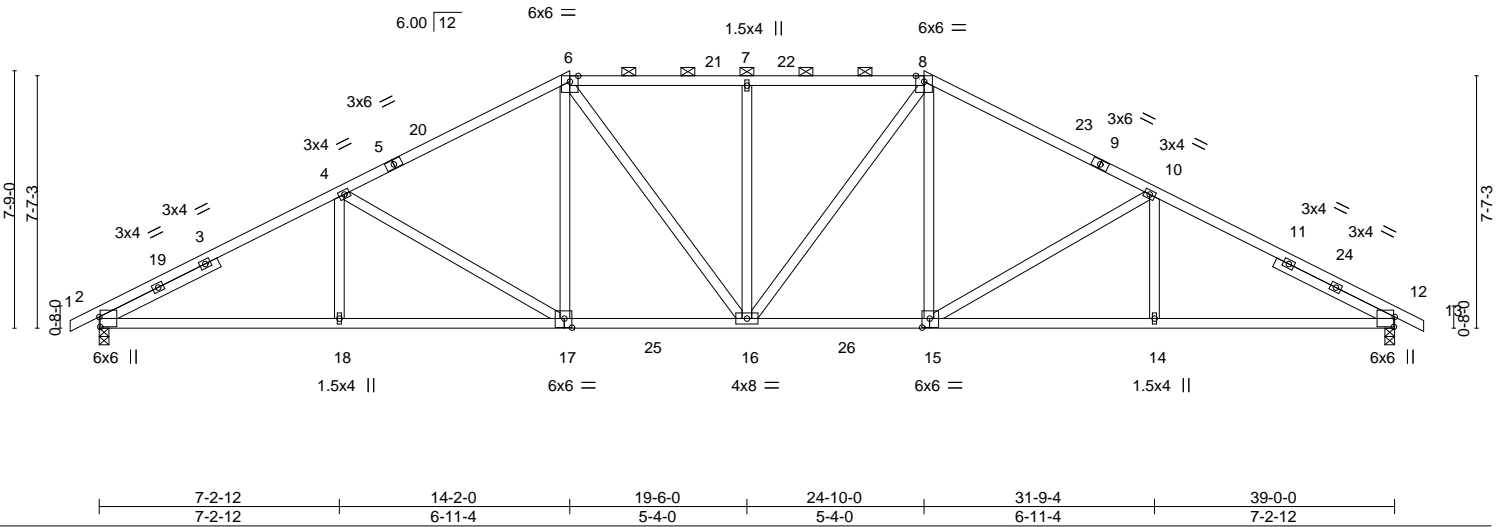


Plate Offsets (X,Y)--	[2:0-3-9,0-0-5], [12:0-3-9,0-0-5], [15:0-2-12,0-3-4], [17:0-2-12,0-3-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.19	15-16	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.35	15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.16	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S							
									Weight: 227 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-6,8-9: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-7-6 max.): 6-8.
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 2x4 SP No.3 3-11-12, Right 2x4 SP No.3 3-11-12	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=101(LC 16)
 Max Uplift 2=-38(LC 12), 12=-38(LC 13)
 Max Grav 2=1740(LC 2), 12=1740(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3011/94, 4-6=-2458/133, 6-7=-2319/150, 7-8=-2319/150, 8-10=-2458/133,
 10-12=-3011/94
 BOT CHORD 2-18=-55/2578, 17-18=-55/2578, 16-17=0/2127, 15-16=0/2127, 14-15=-14/2578,
 12-14=-14/2578
 WEBS 4-18=0/293, 4-17=-528/142, 6-17=0/515, 6-16=-76/433, 7-16=-389/119, 8-16=-76/433,
 8-15=0/515, 10-15=-529/142, 10-14=0/293

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 14-2-0, Exterior(2R) 14-2-0 to 18-4-15, Interior(1) 18-4-15 to 24-10-0, Exterior(2R) 24-10-0 to 29-0-15, Interior(1) 29-0-15 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) Provide adequate drainage to prevent water ponding.
 - 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) 2 and 12. 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.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

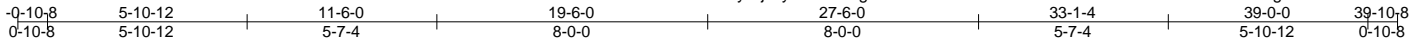


Job 237_2723_C	Truss H7	Truss Type Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667150
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:34:59 2022 Page 1

ID:ytBjKryWUodVVgHGuh7JdBzXTGY-BkmN7cl?riGER?RexuDhnZ2mnkgwF5zLc6c7r4zw7NA



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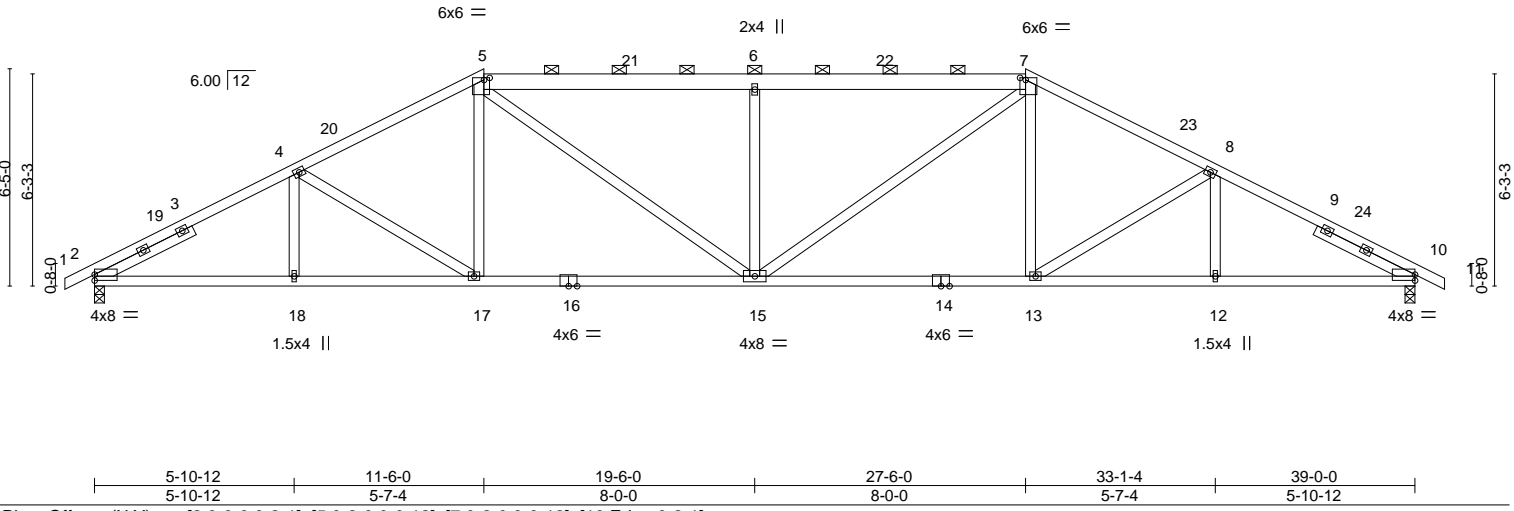


Plate Offsets (X, Y)--	[2:0-0,0-2-1], [5:0-2-0,0-12], [7:0-2-0,0-12], [10:Edge,0-2-1]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.97	Vert(LL)	-0.24 15-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.45 15-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.41	Horz(CT)	0.14 10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 228 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-7: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-0-2 max.): 5-7.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 3-2-13, Right 2x4 SP No.3 3-2-13	

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=82(LC 16)
 Max Uplift 2=-17(LC 12), 10=-17(LC 13)
 Max Grav 2=1741(LC 2), 10=1741(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-3032/91, 4-5=-2666/116, 5-6=-2916/139, 6-7=-2916/139, 7-8=-2666/116,
 8-10=-3032/91
 BOT CHORD 2-18=-24/2587, 17-18=-24/2587, 15-17=-14/2356, 13-15=0/2356, 12-13=-22/2587,
 10-12=-22/2587
 WEBS 4-17=-291/123, 5-17=0/437, 5-15=-106/786, 6-15=-616/188, 7-15=-106/786, 7-13=0/437,
 8-13=-291/123

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-6-0, Exterior(2R) 11-6-0 to 15-8-15, Interior(1) 15-8-15 to 27-6-0, Exterior(2R) 27-6-0 to 31-8-15, Interior(1) 31-8-15 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) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 3x4 MT20 unless otherwise indicated.
 - 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 10. 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.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 237_2723_C	Truss H8	Truss Type Hip	Qty 1	Ply 1	KB Home 237.2723.C	149667151
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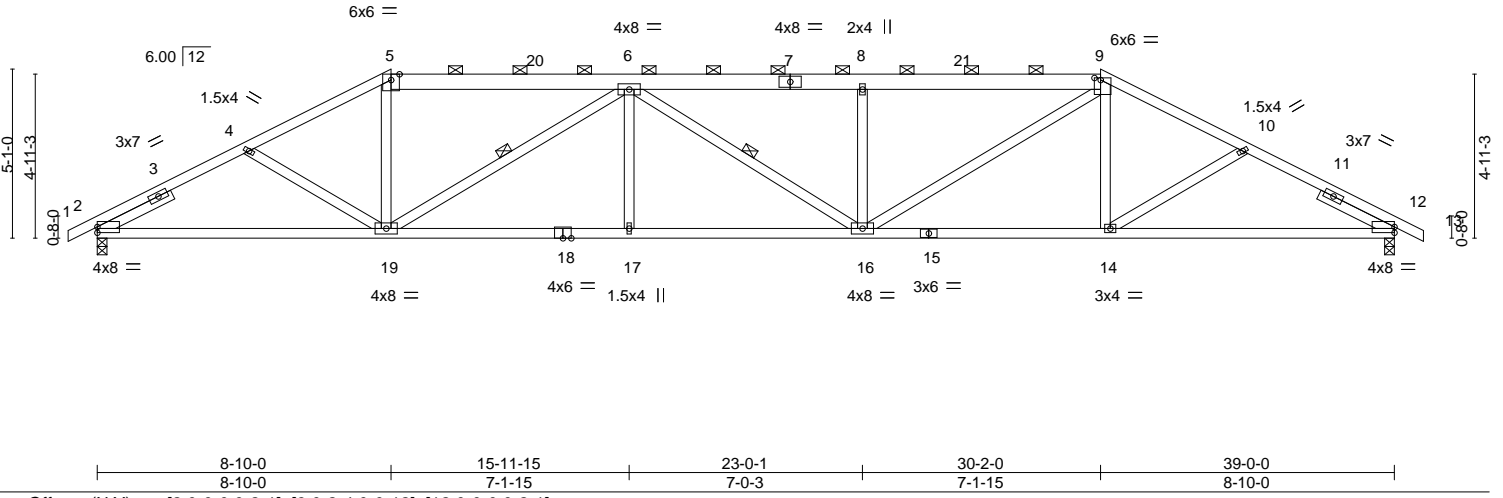
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:00 2022 Page 1

ID:ytBjkKryWUodVVgHG7JdBzXTGY-fxKILymdc0O5S90qUbkwKnb_68GA_XeUrmLhNWzw7N9

-0-10-8	4-6-12	8-10-0	15-11-15	23-0-1	30-2-0	34-5-4	39-0-0	39-10-8
0-10-8	4-6-12	4-3-4	7-1-15	7-0-3	7-1-15	4-3-4	4-6-12	0-10-8

Scale = 1:69.3



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 0.81	Vert(LL)	-0.22 16-17	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.46 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.15 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 224 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 5-7,7-9: 2x6 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-6 max.): 5-9.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-19, 6-16
SLIDER Left 2x4 SP No.3 2-5-13, Right 2x4 SP No.3 2-5-13	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=64(LC 16)
 Max Uplift 2=-24(LC 9), 12=-24(LC 8)
 Max Grav 2=1612(LC 1), 12=1613(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2750/118, 4-5=-2610/113, 5-6=-2309/113, 6-8=-3292/195, 8-9=-3296/198,
 9-10=-2609/114, 10-12=-2750/118
 BOT CHORD 2-19=-100/2321, 17-19=-155/3287, 16-17=-155/3287, 14-16=-26/2323, 12-14=-55/2322
 WEBS 5-19=0/776, 6-19=-1233/150, 6-17=0/272, 8-16=-499/150, 9-16=-147/1232, 9-14=0/290

- 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-10-0, Exterior(2R) 8-10-0 to 13-0-15, Interior(1) 13-0-15 to 30-2-0, Exterior(2R) 30-2-0 to 34-7-1, Interior(1) 34-7-1 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) Provide adequate drainage to prevent water ponding.
 - 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.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 12. 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.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 237_2723_C	Truss HG1	Truss Type Half Hip Girder	Qty 1	Ply 2	KB Home 237.2723.C Job Reference (optional)	I49667152
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:06 2022 Page 2
ID:ytBjKryWUodVVgHGUH7JdBzXTGY-U4h0b0rOBs8EB4T_rsrKa1r0IZ1O6tNDio?aAzW7N3

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 37 lb down and 64 lb up at 2-2-12, 10 lb down and 23 lb up at 4-2-12, 94 lb down and 91 lb up at 6-2-0, 100 lb down and 91 lb up at 8-2-12, 100 lb down and 91 lb up at 10-2-12, 100 lb down and 91 lb up at 12-2-12, 100 lb down and 91 lb up at 14-2-12, 100 lb down and 91 lb up at 16-2-12, 100 lb down and 91 lb up at 18-2-12, 100 lb down and 91 lb up at 20-2-12, 100 lb down and 91 lb up at 22-2-12, 100 lb down and 91 lb up at 24-2-12, 100 lb down and 91 lb up at 26-2-12, 100 lb down and 91 lb up at 28-2-12, 100 lb down and 91 lb up at 30-2-12, 100 lb down and 91 lb up at 32-2-12, 100 lb down and 91 lb up at 34-2-12, and 100 lb down and 91 lb up at 36-2-12, and 96 lb down and 87 lb up at 38-5-12 on top chord, and 60 lb down at 2-2-12, 104 lb down and 34 lb up at 4-2-12, 46 lb down at 6-2-12, 46 lb down at 8-2-12, 46 lb down at 10-2-12, 46 lb down at 12-2-12, 46 lb down at 14-2-12, 46 lb down at 16-2-12, 46 lb down at 18-2-12, 46 lb down at 20-2-12, 46 lb down at 22-2-12, 46 lb down at 24-2-12, 46 lb down at 26-2-12, 46 lb down at 28-2-12, 46 lb down at 30-2-12, 46 lb down at 32-2-12, 46 lb down at 34-2-12, and 46 lb down at 36-2-12, and 61 lb down at 38-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-10=-60, 2-11=-20

Concentrated Loads (lb)

Vert: 3=-64(F) 5=-64(F) 10=-87(F) 11=-31(F) 16=-23(F) 18=-23(F) 12=-23(F) 9=-64(F) 19=-37(F) 21=-64(F) 22=-64(F) 23=-64(F) 24=-64(F) 25=-64(F) 26=-64(F) 27=-64(F) 28=-64(F) 29=-64(F) 30=-64(F) 31=-64(F) 32=-64(F) 33=-64(F) 34=-51(F) 35=-104(F) 36=-23(F) 37=-23(F) 38=-23(F) 39=-23(F) 40=-23(F) 41=-23(F) 42=-23(F) 43=-23(F) 44=-23(F) 45=-23(F) 46=-23(F) 47=-23(F) 48=-23(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



818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss HG2	Truss Type Hip Girder	Qty 1	Ply 2	KB Home 237.2723.C	149667153
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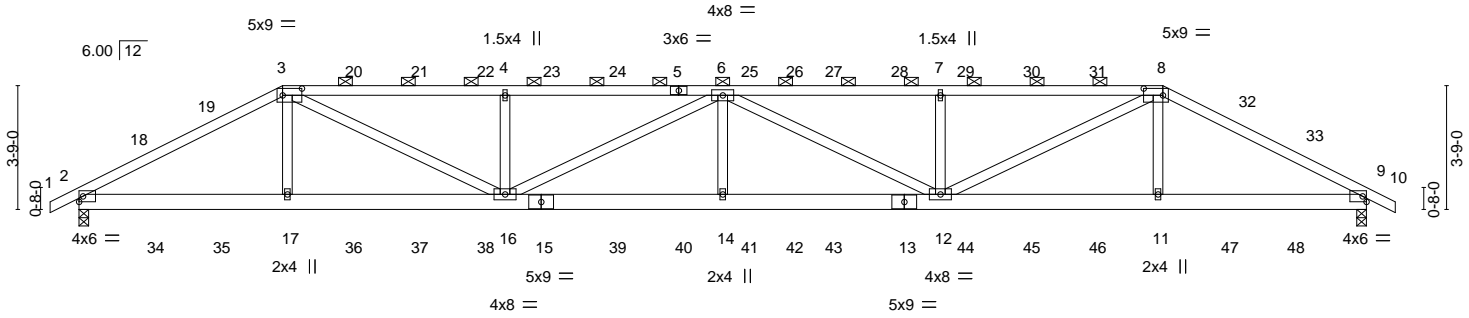
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:12 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-IE3Hs3v8niuOv?x7B6ykpI50s_LFowRFbeFJnpzw7Mz



Scale = 1:69.8



	6-2-0	12-10-14	19-6-0	26-1-2	32-10-0	39-0-0
	6-2-0	6-8-14	6-7-2	6-7-2	6-8-14	6-2-0
Plate Offsets (X, Y)--	[3:0-7-0,0-2-8], [8:0-7-0,0-2-8]					

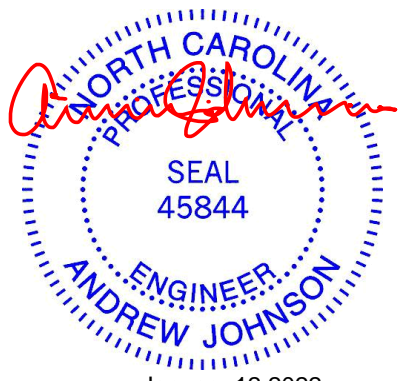
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.89	Vert(LL) 0.28	14	>999	240	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.81	Vert(CT) -0.52	14	>898	180		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.59	Horz(CT) 0.10	9	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S						
	Code IRC2018/TP12014						Weight: 437 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except* 3-5,5-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-4-7 oc purlins, except 2-0-0 oc purlins (4-5-0 max.): 3-8.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 9=0-3-8
 Max Horz 2=48(LC 33)
 Max Uplift 2=-468(LC 5), 9=-469(LC 4)
 Max Grav 2=2454(LC 1), 9=2457(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4415/957, 3-4=-6269/1506, 4-6=-6269/1506, 6-7=-6285/1514, 7-8=-6285/1514,
 8-9=-4420/960
 BOT CHORD 2-17=-825/3766, 16-17=-821/3781, 14-16=-1693/7141, 12-14=-1693/7141,
 11-12=-792/3786, 9-11=-795/3771
 WEBS 3-17=0/490, 3-16=-750/2818, 4-16=-645/353, 6-16=-998/264, 6-14=0/463,
 6-12=-981/255, 7-12=-655/362, 8-12=-756/2830, 8-11=0/489

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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=25ft; 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 9. 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/TP1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 12, 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 237_2723_C	Truss HG2	Truss Type Hip Girder	Qty 1	Ply 2	KB Home 237.2723.C Job Reference (optional)	I49667153
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:12 2022 Page 2
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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 64 lb up at 2-2-12, 29 lb down and 23 lb up at 4-2-12, 94 lb down and 91 lb up at 6-2-0, 100 lb down and 91 lb up at 8-2-12, 100 lb down and 91 lb up at 10-2-12, 100 lb down and 91 lb up at 12-2-12, 100 lb down and 91 lb up at 14-2-12, 100 lb down and 91 lb up at 16-2-12, 100 lb down and 91 lb up at 18-2-12, 100 lb down and 91 lb up at 20-2-12, 100 lb down and 91 lb up at 20-9-4, 100 lb down and 91 lb up at 22-9-4, 100 lb down and 91 lb up at 24-9-4, 100 lb down and 91 lb up at 26-9-4, 100 lb down and 91 lb up at 28-9-4, 100 lb down and 91 lb up at 30-9-4, 94 lb down and 91 lb up at 32-10-0, and 29 lb down and 23 lb up at 34-9-4, and 77 lb down and 64 lb up at 36-9-4 on top chord, and 60 lb down at 2-2-12, 104 lb down and 34 lb up at 4-2-12, 46 lb down at 6-2-12, 46 lb down at 8-2-12, 46 lb down at 10-2-12, 46 lb down at 12-2-12, 46 lb down at 14-2-12, 46 lb down at 16-2-12, 46 lb down at 18-2-12, 46 lb down at 20-2-12, 46 lb down at 20-9-4, 46 lb down at 22-9-4, 46 lb down at 24-9-4, 46 lb down at 26-9-4, 46 lb down at 28-9-4, 46 lb down at 30-9-4, 46 lb down at 32-9-4, and 104 lb down and 34 lb up at 34-9-4, and 60 lb down at 36-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-64(B) 5=-64(B) 8=-64(B) 15=-23(B) 17=-23(B) 11=-23(B) 13=-23(B) 18=-37(B) 20=-64(B) 21=-64(B) 22=-64(B) 23=-64(B) 24=-64(B) 25=-64(B) 26=-64(B) 27=-64(B) 28=-64(B) 29=-64(B) 30=-64(B) 31=-64(B) 33=-37(B) 34=-51(B) 35=-104(B) 36=-23(B) 37=-23(B) 38=-23(B) 39=-23(B) 40=-23(B) 41=-23(B) 42=-23(B) 43=-23(B) 44=-23(B) 45=-23(B) 46=-23(B) 47=-104(B) 48=-51(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



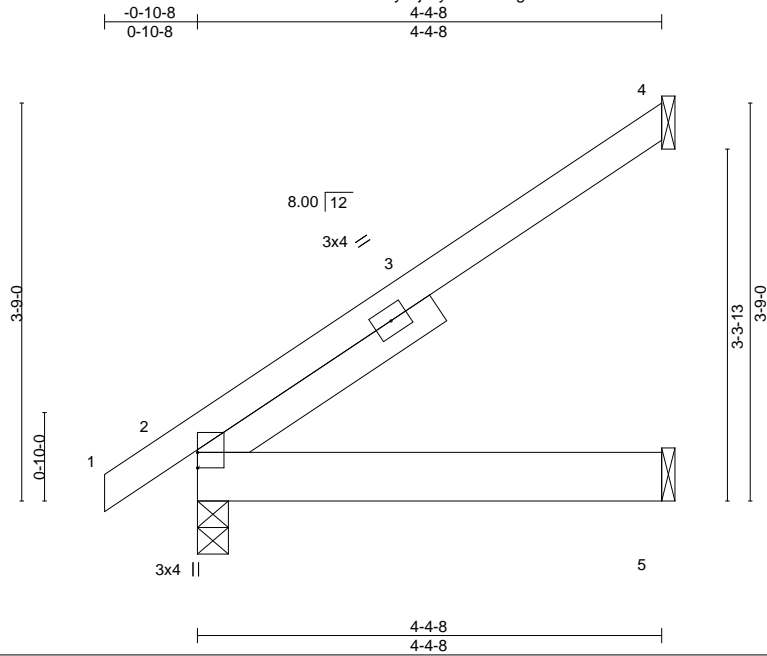
818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss J1	Truss Type Jack-Open	Qty 32	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667154
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:13 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-mRcf3PwnY00FW9WKlqTzMWdJCOrdXWqPqI?tJGzw7My



Scale = 1:21.7

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 0.34	Vert(LL)	-0.01 2-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	-0.01 2-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 24 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x6 SP No.2
 SLIDER Left 2x4 SP No.3 2-7-11

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=107(LC 12)
 Max Uplift 4=80(LC 12)
 Max Grav 4=132(LC 19), 2=230(LC 1), 5=86(LC 3)

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

NOTES-

- 1) 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) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-3-12 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 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.



January 12, 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



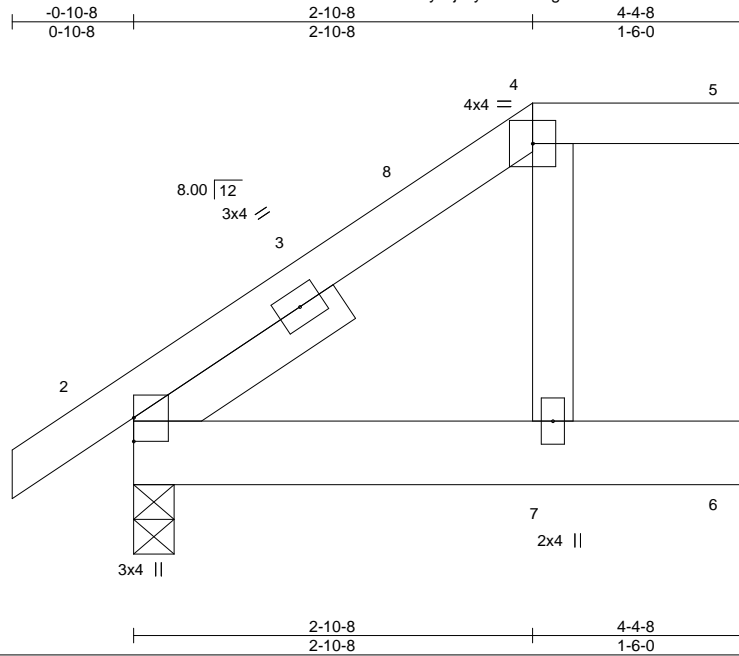
818 Soundside Road
 Edenton, NC 27932

Job 237_2723_C	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667155
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:14 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-FdA1HlxPJ968J4WJX_CujAYHnA?GzbY3ykQrizw7Mx



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 0.12	Vert(LL)	-0.01	7	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	-0.01	2-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.01	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 25 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except
BOT CHORD 2x6 SP No.2	2-0-0 oc purlins: 4-5.
WEBS 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.3 1-8-14	

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical
 Max Horz 2=78(LC 12)
 Max Uplift 5=-14(LC 8), 2=-6(LC 12), 6=-14(LC 12)
 Max Grav 5=43(LC 1), 2=230(LC 1), 6=124(LC 1)

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=25ft; 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 2-10-8, Exterior(2E) 2-10-8 to 4-3-12 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
 - Provide adequate drainage to prevent water ponding.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job 237_2723_C	Truss J3	Truss Type Jack-Open Girder	Qty 3	Ply 1	KB Home 237.2723.C	149667156
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:15 2022 Page 1

ID:ytBjKryWUodVvGHGUH7JdBzXTGY-jpkQU5y14dHzmTfitFVRRxjhmBXg?QKIhCuzO8zw7Mw

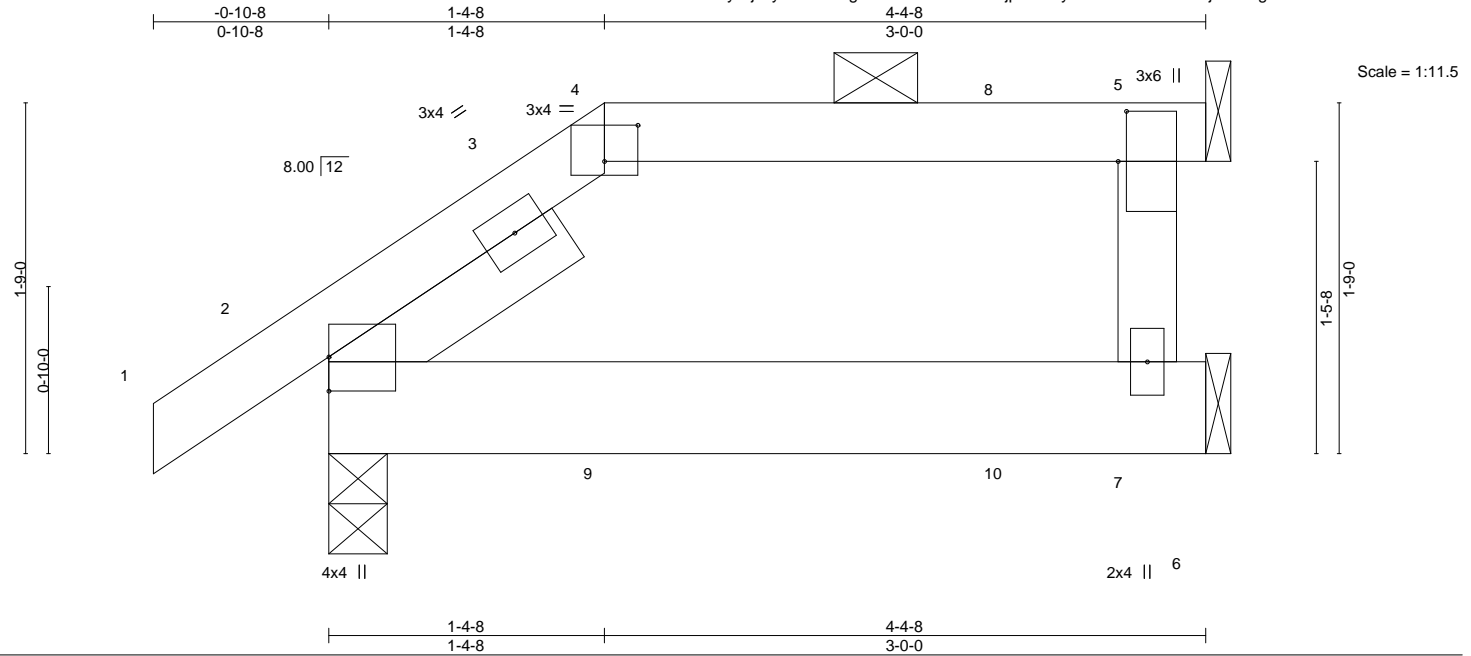


Plate Offsets (X,Y)--	[4:0-2-0,0-2-3], [5:0-3-0,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.20	Vert(LL)	0.01	2-7	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	-0.01	2-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%

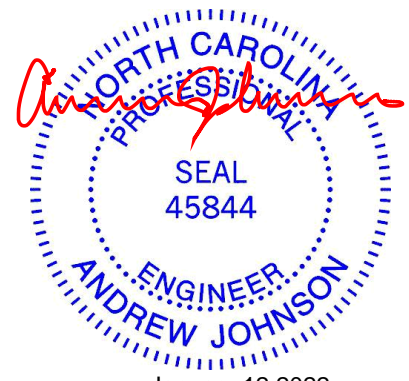
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-4-8 oc purlins, except 2-0-0 oc purlins: 4-5.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-4-3	

REACTIONS. (size) 2=0-3-8, 5=Mechanical, 7=Mechanical
 Max Horz 2=47(LC 8)
 Max Uplift 2=-26(LC 8), 5=-44(LC 5)
 Max Grav 2=223(LC 1), 5=97(LC 1), 7=100(LC 3)

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=25ft; 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 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.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
 - 8) 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.
 - 9) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 12) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 38 lb up at 1-4-8, and 18 lb down and 36 lb up at 3-5-4 on top chord, and 9 lb down at 1-5-4, and 9 lb down at 3-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



Continued on page 2

<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 TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job 237_2723_C	Truss J3	Truss Type Jack-Open Girder	Qty 3	Ply 1	KB Home 237.2723.C Job Reference (optional)	I49667156
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:15 2022 Page 2
ID:ytBjKryWUodVVgHGUH7JdBzXTGY-jpkQU5y14dHzmTfitFVRRxjhmBXg?QKIHCuzO8zw7Mw

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 2-6=-20

Concentrated Loads (lb)

Vert: 8=-3(B) 9=-1(B) 10=-2(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



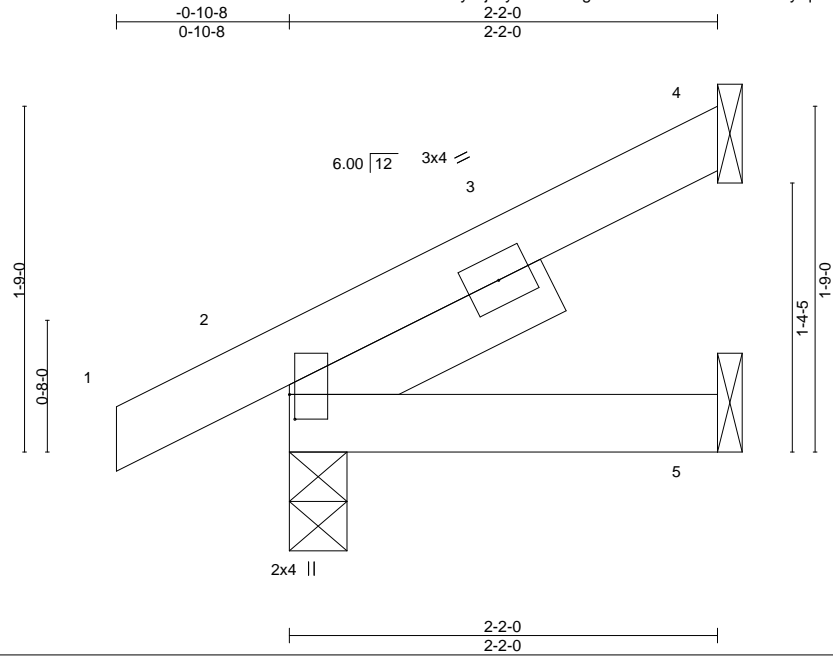
818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss J4	Truss Type Jack-Open	Qty 6	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667157
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:16 2022 Page 1

ID:yBjKryWUodVVgHGUH7JdBzXTGY-B0loiQyfqxPqNdEvQy0gz8Fvpbu2ktarWGDxwbzw7Mv



Scale = 1:11.7

Plate Offsets (X,Y)--	[2:0-1-8,0-0-5]				
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 0.06	Vert(LL) -0.00 2-5 >999 240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 2-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 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.
SLIDER Left 2x4 SP No.3 1-5-5	

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
 Max Horz 2=46(LC 12)
 Max Uplift 4=-32(LC 12), 2=-9(LC 12)
 Max Grav 4=52(LC 1), 2=148(LC 1), 5=42(LC 3)

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

- NOTES-**
- 1) 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) 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
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - 6) 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.
 - 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.



Job 237_2723_C	Truss JB	Truss Type Jack-Open	Qty 4	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667158
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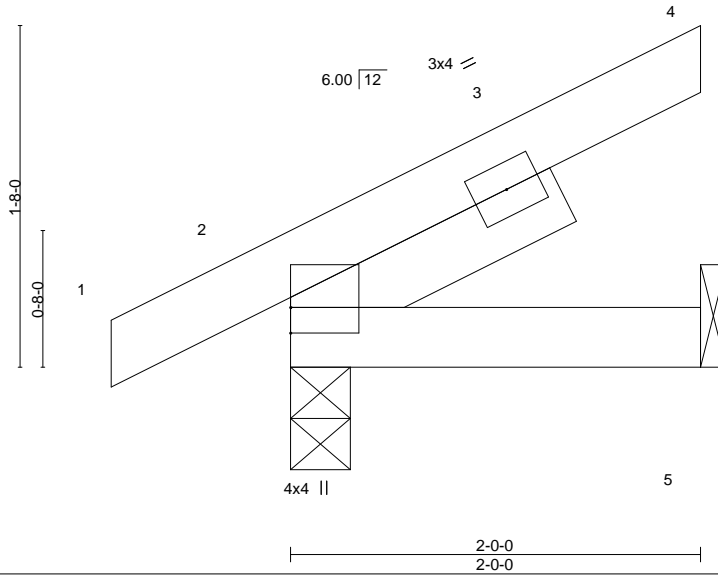
84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:16 2022 Page 1

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Scale = 1:11.2



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 0.09	Vert(LL)	-0.00 2-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.01 2-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 10 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
 SLIDER Left 2x4 SP No.3 1-5-4

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 5=Mechanical
 Max Horz 2=42(LC 9)
 Max Uplift 2=-11(LC 9), 5=-16(LC 9)
 Max Grav 2=144(LC 1), 5=69(LC 1)

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

NOTES-

- 1) 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) 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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) 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.
- 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. 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.



January 12, 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



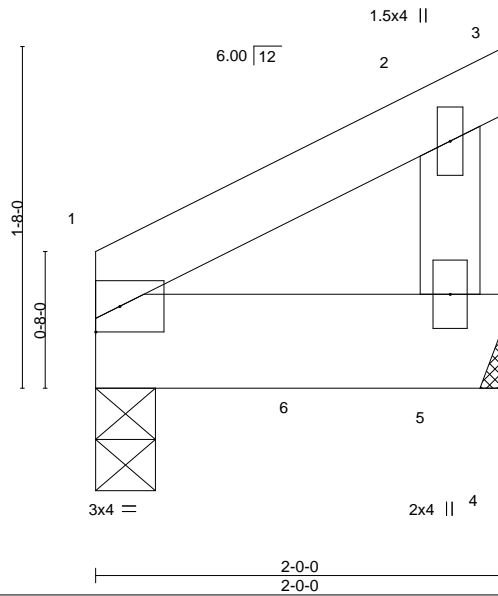
818 Soundside Road
 Edenton, NC 27932

Job 237_2723_C	Truss JBG	Truss Type Jack-Open Girder	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667159
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:17 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-fCsAvmzHbEXg?mp5_gXvWMO3f?AUTKf?lwz4S1zw7MU
2-0-0
2-0-0



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 0.11	Vert(LL)	-0.00 1-5	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.29	Vert(CT)	-0.01 1-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.01	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-0-0 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	

REACTIONS. (size) 1=0-3-8, 4=Mechanical
 Max Horz 1=39(LC 8)
 Max Uplift 1=7(LC 8), 4=32(LC 8)
 Max Grav 1=326(LC 1), 4=346(LC 1)

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

- NOTES-**
- 1) 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; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * 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.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
 - 6) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. 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.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 526 lb down and 33 lb up at 1-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-20, 1-4=-20
 Concentrated Loads (lb)
 Vert: 6=-526(F)

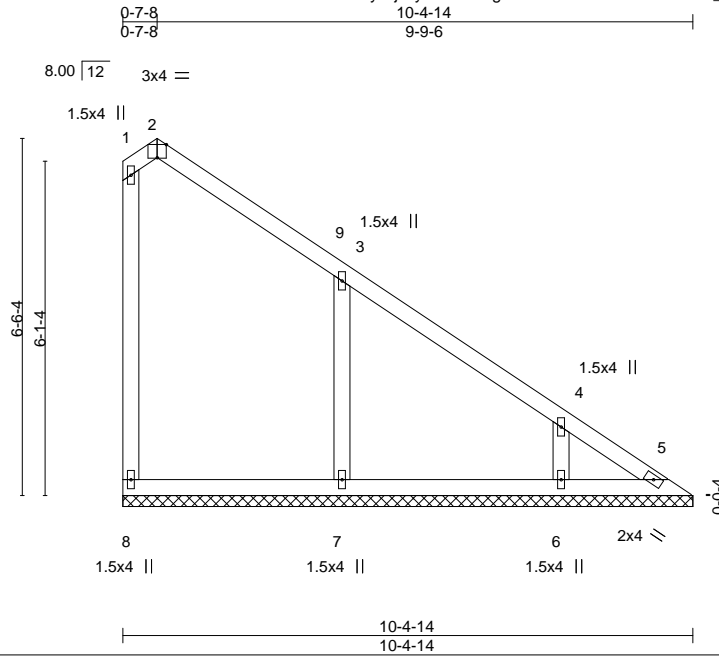


Job 237_2723_C	Truss V1	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667160
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:18 2022 Page 1

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Scale = 1:42.1

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 0.34	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 49 lb	FT = 20%

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

REACTIONS. All bearings 10-4-14.
 (lb) - Max Horz 8=186(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 8, 5, 7, 6
 Max Grav All reactions 250 lb or less at joint(s) 8, 5 except 7=461(LC 20), 6=315(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-297/221
 BOT CHORD 7-8=-178/258, 6-7=-178/258, 5-6=-178/258
 WEBS 3-7=-275/190

- 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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 0-7-8, Exterior(2R) 0-7-8 to 3-7-8, Interior(1) 3-7-8 to 9-11-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) N/A
 - 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.

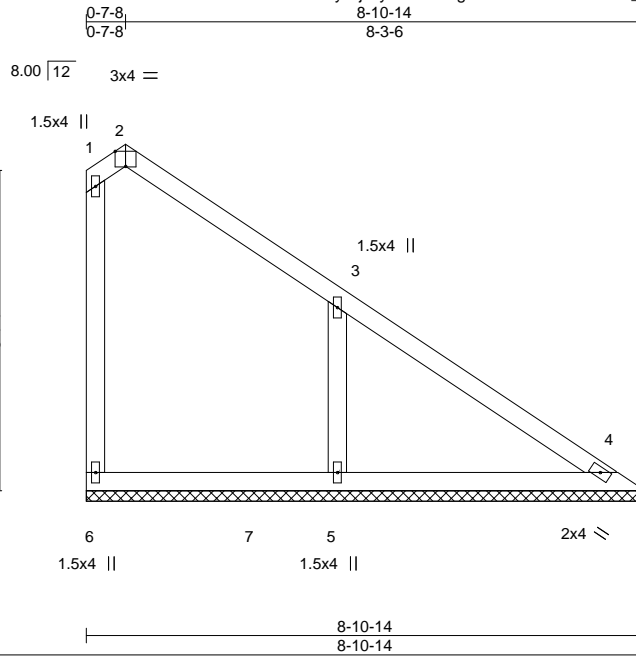


Job 237_2723_C	Truss V2	Truss Type GABLE	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667161
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:19 2022 Page 1

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Scale = 1:36.7

Plate Offsets (X,Y)--	[2:0-2-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES
TCLL 20.0	Plate Grip DOL	1.15	TC 0.44	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					
								Weight: 40 lb FT = 20%

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

REACTIONS. (size) 6=8-10-14, 4=8-10-14, 5=8-10-14
 Max Horz 6=-155(LC 10)
 Max Uplift 6=-14(LC 12), 5=-99(LC 13)
 Max Grav 6=165(LC 20), 4=184(LC 19), 5=506(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-5=-309/224

- 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 0-7-8, Exterior(2R) 0-7-8 to 3-7-8, Interior(1) 3-7-8 to 8-5-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) N/A
 - 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.



Job 237_2723_C	Truss V3	Truss Type Valley	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667162
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:20 2022 Page 1

ID:ytBjKryWUodVVgHGuh7JdBzXTGY-3nXJXo?Au9vFsEYgfo5c8_QXCCDrggdRRuBk3Mzw7Mr



8.00 $\sqrt{12}$ 3x4 =

Scale = 1:30.8

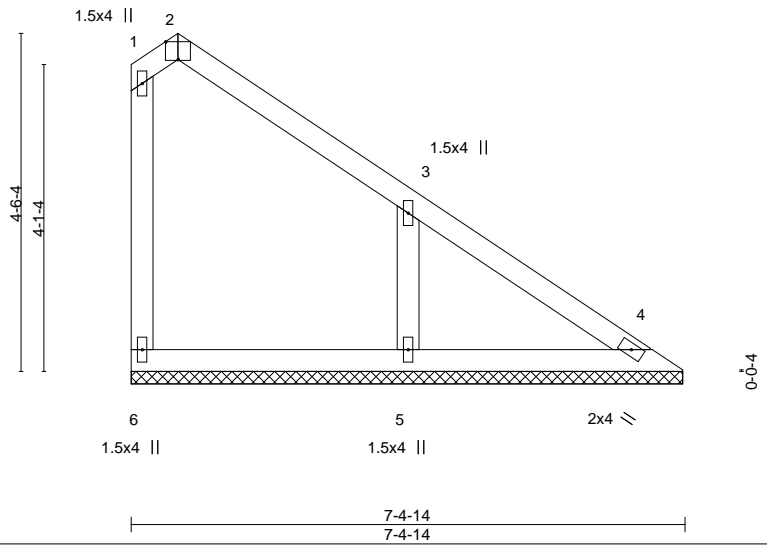


Plate Offsets (X,Y)--	[2:0-2-0,Edge]
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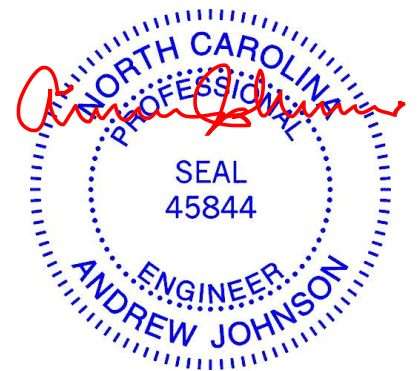
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 32 lb	FT = 20%

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

REACTIONS. (size) 6=7-4-8, 4=7-4-8, 5=7-4-8
 Max Horz 6=125(LC 10)
 Max Uplift 6=11(LC 12), 5=78(LC 13)
 Max Grav 6=120(LC 20), 4=117(LC 19), 5=331(LC 20)

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 0-7-8, Exterior(2R) 0-7-8 to 3-8-7, Interior(1) 3-8-7 to 6-11-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) N/A
 - 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.

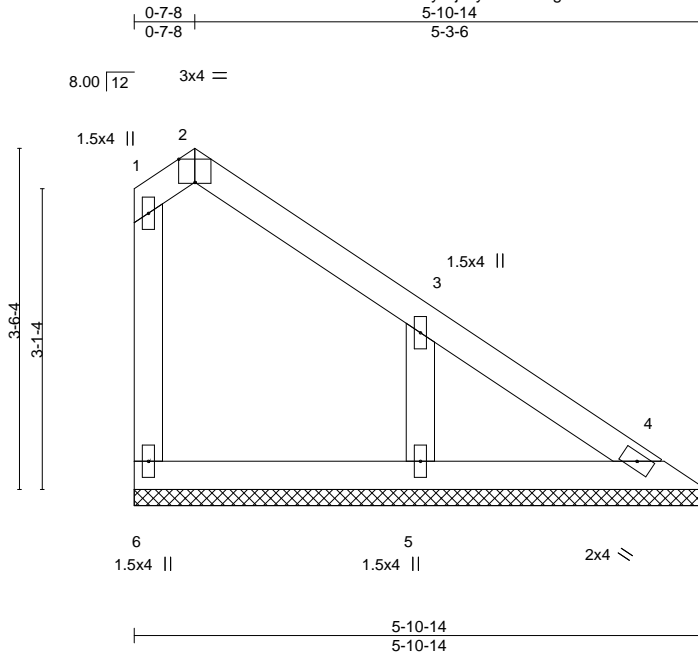


Job 237_2723_C	Truss V4	Truss Type Valley	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667163
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:21 2022 Page 1

ID:ytBjKryWUodVVgHG7JdBzXTGY-Xz5hl80ofT16UO7sDVcrgCzkycaCP7?agYxlbozw7Mq



Scale: 1/2"=1'

Plate Offsets (X,Y)--	[2:0-2:0,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	n/a	-	n/a 999
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a 999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	4	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 25 lb
							FT = 20%

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

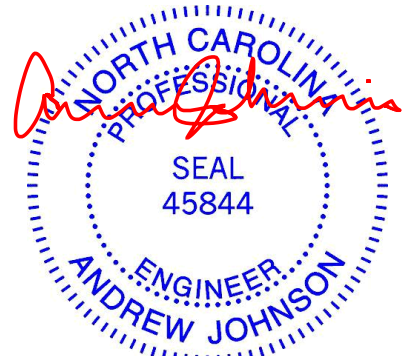
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=5-10-8, 4=5-10-8, 5=5-10-8
Max Horz 6=94(LC 8)
Max Uplift 6=8(LC 12), 5=58(LC 13)
Max Grav 6=95(LC 1), 4=90(LC 19), 5=255(LC 20)

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=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 0-7-8, Exterior(2R) 0-7-8 to 3-7-8, Interior(1) 3-7-8 to 5-5-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) N/A
- 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.



January 12, 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

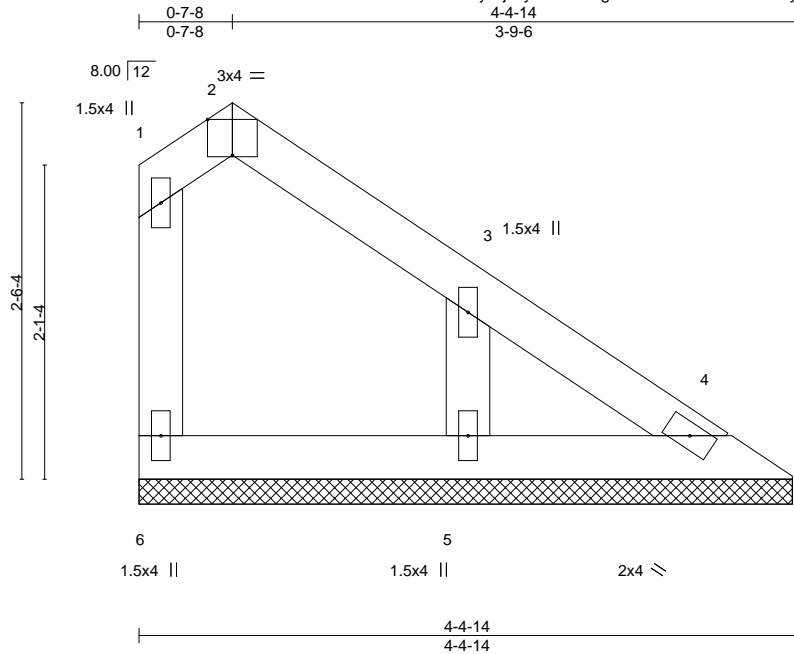


818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss V5	Truss Type Valley	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667164
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:22 2022 Page 1
ID:ytBjKryWUodVvGHGUH7JdBzXTGY-09f3yU1QQn9z5Yi2nD74DPVvy0xH8aUkuBgr8Ezw7M



Scale = 1:15.4

Plate Offsets (X,Y)--	[2:0-2-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	4	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					
							PLATES	GRIP
							MT20	244/190
							Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=4-4-8, 4=4-4-8, 5=4-4-8
Max Horz 6=64(LC 8)
Max Uplift 6=5(LC 12), 5=38(LC 13)
Max Grav 6=72(LC 1), 4=62(LC 19), 5=179(LC 20)

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=25ft; 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) N/A
- 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.



January 12, 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



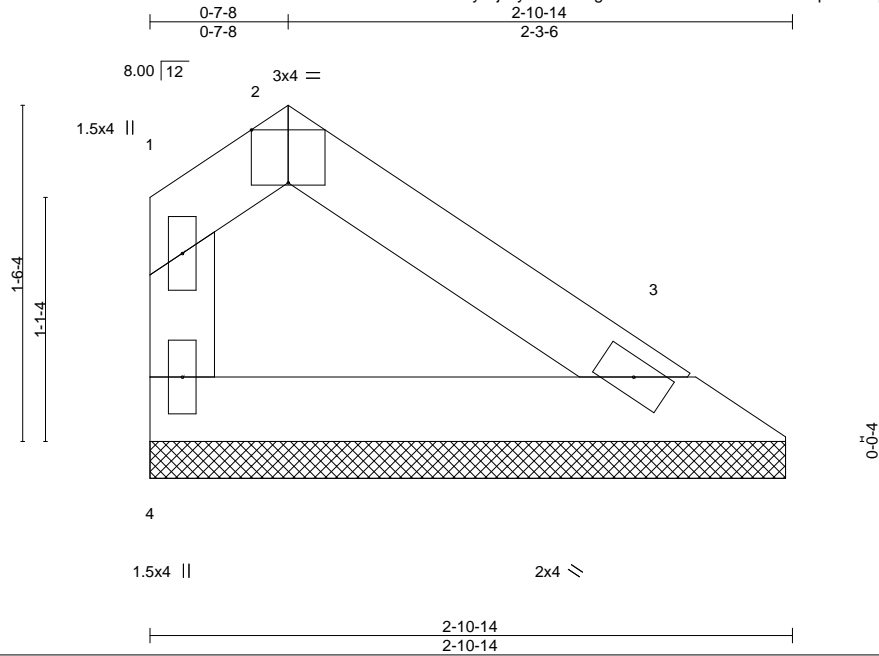
818 Soundside Road
Edenton, NC 27932

Job 237_2723_C	Truss V6	Truss Type Valley	Qty 1	Ply 1	KB Home 237.2723.C Job Reference (optional)	149667165
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84 Components (Dunn), Dunn, NC - 28334,

8.530 s Dec 6 2021 MiTek Industries, Inc. Wed Jan 12 10:35:23 2022 Page 1

ID:ytBjKryWUodVVgHGUH7JdBzXTGY-UMDRaQ22B4HqjiGFLweJmd24kQGFt1Jt7rQPghzw7Mo



Scale = 1:10.4

Plate Offsets (X, Y)--		[2:0-2-0,Edge]							
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 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R					Weight: 10 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.3	TOP CHORD	Structural wood sheathing directly applied or 2-10-14 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS. (size) 4=2-10-8, 3=2-10-8
 Max Horz 4=33(LC 8)
 Max Uplift 4=7(LC 13), 3=3(LC 13)
 Max Grav 4=91(LC 1), 3=91(LC 1)

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; TC DL=6.0psf; BCDL=6.0psf; h=25ft; 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) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) N/A
 - 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.



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
BCSI: 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: MII-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.