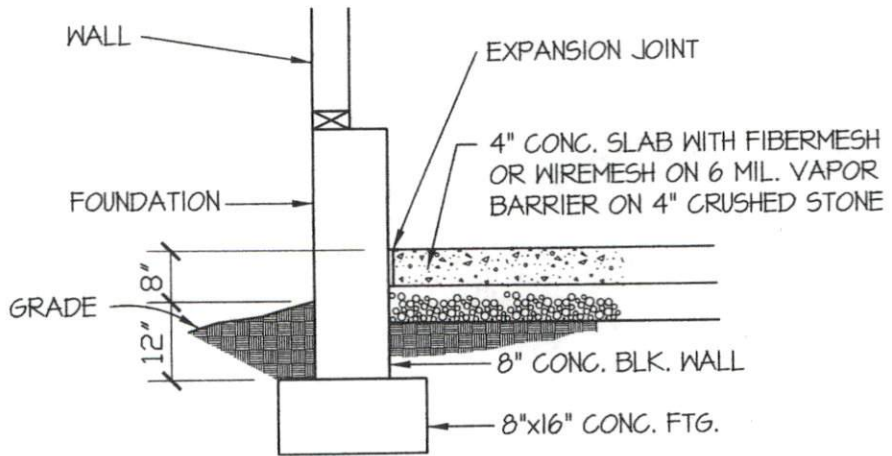


T.

ON R-16



FOUNDATION WALL FROM
TO FINISH GRADE
MINUS COATING
AND MORTAR.

GARAGE SLAB

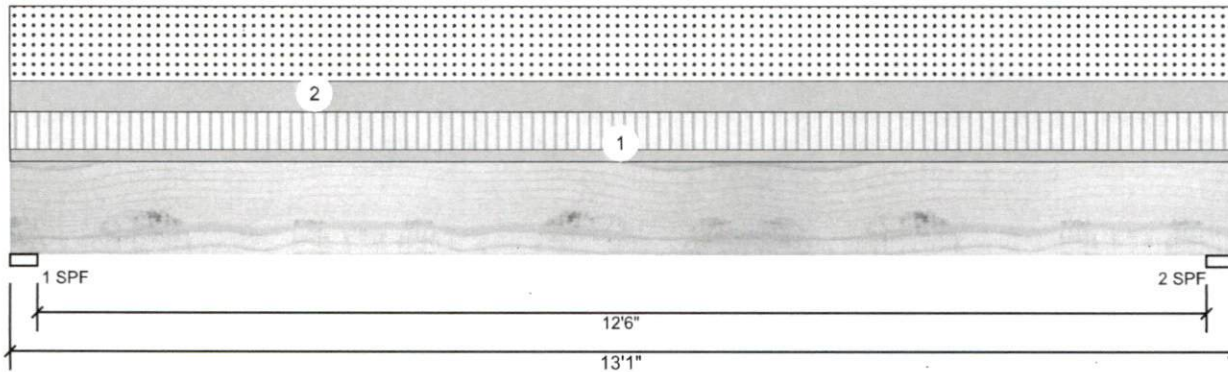
SCALE: NTS

1" MAX. NO



Garage Header 2.0E EverEdge™ LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	240
Importance:	Normal
Temperature:	Temp <= 100°F
General Load	
Floor Live:	40 PSF
Dead:	10 PSF

Application:	Chimney
Design Method:	ASD
Building Code:	IBC/IRC 2015
Load Sharing:	No
Deck:	Not Checked

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1178	1453	2355	0	0
2	1178	1453	2355	0	0

Bearings

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	79%	1453 / 2649	4102	L	D+0.75(L+S)
2 - SPF	3.500"	79%	1453 / 2649	4102	L	D+0.75(L+S)

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12495 ft-lb	6'6 1/2"	22894 ft-lb	0.546 (55%)	D+0.75(L+S)	L
Unbraced	12495 ft-lb	6'6 1/2"	12529 ft-lb	0.997 (100%)	D+0.75(L+S)	L
Shear	3338 lb	11'10 3/8"	9081 lb	0.368 (37%)	D+0.75(L+S)	L
LL Defl inch	0.259 (L/584)	6'6 1/2"	0.316 (L/480)	0.820 (82%)	0.75(L+S)	L
TL Defl inch	0.402 (L/377)	6'6 1/2"	0.631 (L/240)	0.640 (64%)	D+0.75(L+S)	L

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top loads must be supported equally by all plies.
- Top must be laterally braced at a maximum of 6'6 3/4" o.c.
- Bottom braced at bearings.
- Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Top	60 PLF	180 PLF	0 PLF	0 PLF	0 PLF	
2	Uniform			Top	150 PLF	0 PLF	360 PLF	0 PLF	0 PLF	
	Self Weight				12 PLF					

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

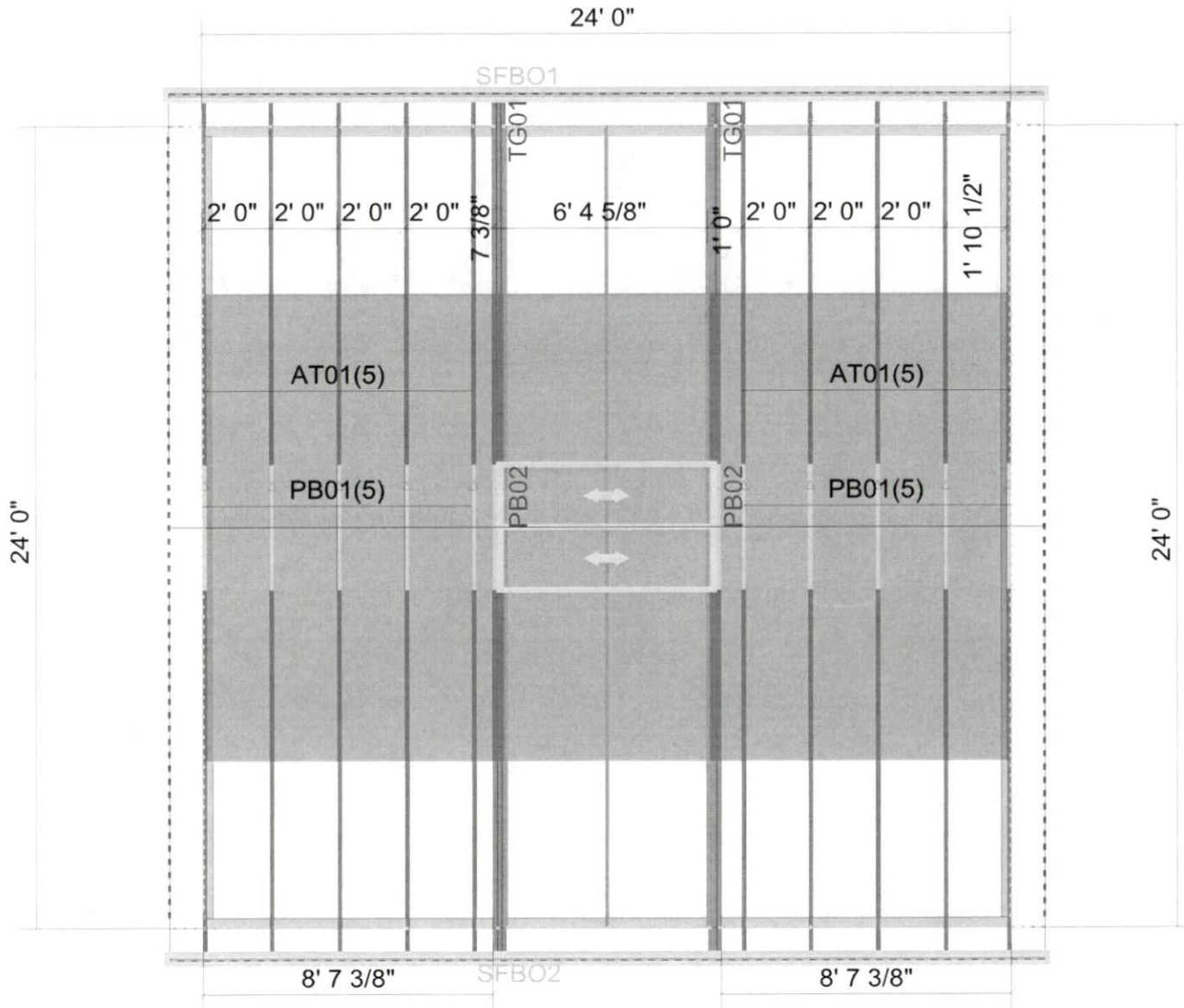
Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

This design is valid until 7/10/2021

Manufacturer Info
 Weyerhaeuser
 Seattle, WA
www.eyerhaeuser.com/everedge/





ROOF TRUSS LAYOUT

1/4" = 1'-0"

Floor Area: 0 SF
 Floor Plywood: 0
 Roof Area: 956.01 SF
 Roof Plywood: 90 sheets
 Roof Shingles: 12 Squares

Project: MOSS

Model:

Lot #:

Station:

Owner #:

Designer:

Date: / /



4476 Hwy. 21 W
 West End, NC 27376
 (910) 673-4711

NOTE
 IT IS THE RESPONSIBILITY OF THE BUILDING CONTRACTOR TO PROVIDE AN APPROPRIATE CONNECTION FOR TRUSSES TO SUPPORTING STRUCTURE (PERFORATIONS SHOWN ON TRUSS ENDINGS) IN SPECIAL CONSIDERATIONS FOR MECHANICAL EQUIPMENT AND/OR PLUMBING (AND THEIR CONNECTIONS) IN TRUSS SPACE MUST BE DETERMINED BY BUILDER ON APPROVED TRUSS LAYOUT PRIOR TO FABRICATION. THIS COMPANY IS A TRUSS MANUFACTURER WHOSE RESPONSIBILITIES ARE LIMITED TO THOSE DESCRIBED IN THIS DRAWING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND BRACING OF TRUSSES MANUFACTURED BY THIS COMPANY. SEE <http://support.longleaftruss.com/pdfs/TTDTRuss-0>

LOCUST LUMBER SOUTHERN PINES

TT19-04099

Job	Truss	Truss Type	Qty	Ply	MOSS	E12932017
T19-04059	AT01	Attic	10	1		

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:22 2019 Page 1

ID: \\XAHdhxzm\BIN_pC\Fn1LzPo6S-SNBw_hhnjOfEekphEGxskniSpCmMDaJ0Ek7azP21x



Scale = 1:61.9

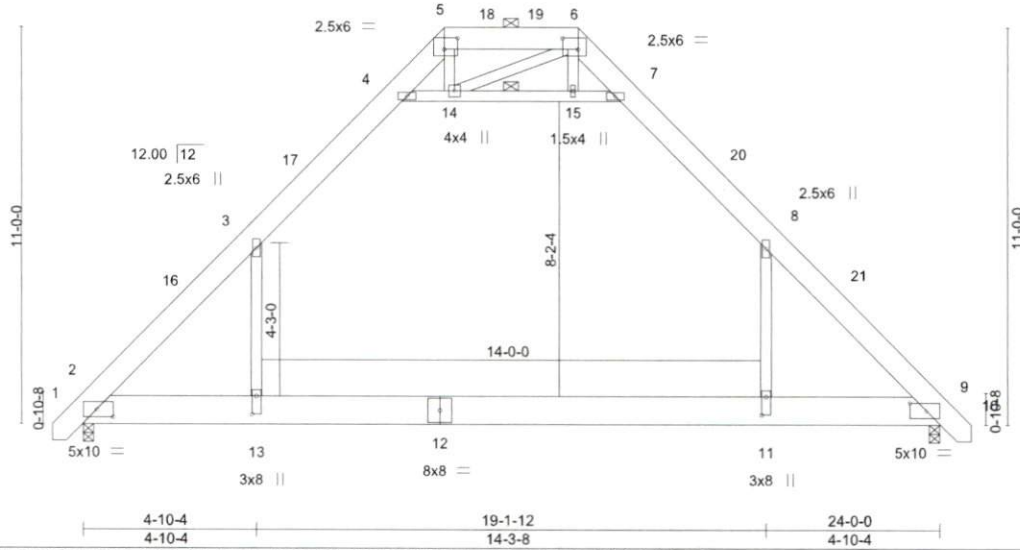


Plate Offsets (X,Y)-- [2:0-5-8,0-2-8], [5:0-4-8,0-3-12], [6:0-5-4,0-3-12], [9:0-5-8,0-2-8], [11:0-6-0,0-1-8], [13:0-6-0,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15		TC 0.53	Vert(LL) -0.35	11-13	>807	240	MT20	244/190
Snow (Pf/Pg) 12.7/10.0	Lumber DOL 1.15		BC 0.47	Vert(CT) -0.50	11-13	>572	180		
TCDL 10.0	Rep Stress Incr YES		WB 0.62	Horz(CT) 0.01	9	n/a	n/a		
BCLL 0.0	Code IRC2018/TPI2014		Matrix-S	Attic -0.21	11-13	798	360		
BCDL 10.0								Weight: 234 lb	FT = 20%

LUMBER-
 TOP CHORD 2x8 SP DSS
 BOT CHORD 2x10 SP DSS
 WEBS 2x4 SP No.3

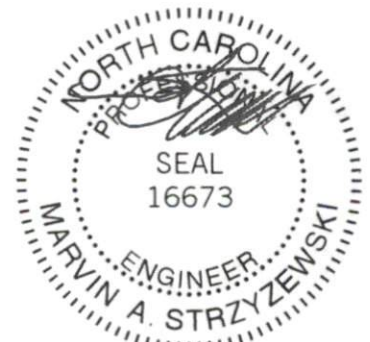
BRACING-
 TOP CHORD Sheathed or 5-11-9 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-7

REACTIONS. (lb/size) 2=825/0-3-8, 9=825/0-3-8
 Max Horz 2=234(LC 11)
 Max Grav 2=1456(LC 25), 9=1456(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1937/0, 3-4=-1078/43, 4-5=-80/478, 5-6=0/836, 6-7=-102/425, 7-8=-1076/43, 8-9=-1938/0
 BOT CHORD 2-13=0/1100, 11-13=0/1111, 9-11=0/1098
 WEBS 3-13=0/1112, 4-14=-1896/37, 14-15=-1802/35, 7-15=-1818/34, 8-11=0/1117

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Ceiling dead load (5.0 psf) on member(s) 3-4, 7-8, 4-14, 14-15, 7-15; Wall dead load (5.0psf) on member(s) 3-13, 8-11
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
- 11) All bearings are assumed to be User Defined crushing capacity of 425 psi.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.



April 18, 2019

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



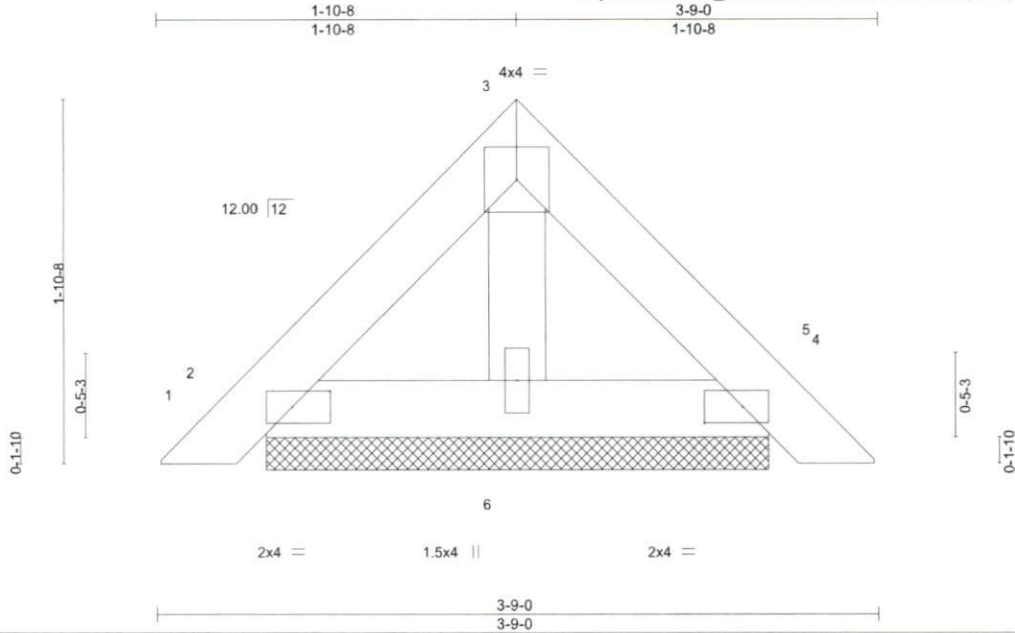
818 Soundside Road
 Edenton, NC 27932

Job T19-04059	Truss PB01	Truss Type Piggyback	Qty 10	Ply 1	MOSS	E12932018
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Longleaf Truss Company.

West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:23 2019 Page 1
ID:ljXAHdhxzmiBIN_pCtFn1LzPo6S-xZlC1iPUinkrol0EyoAPyJ26De45pJSEuUJf1zPZ1w



Scale = 1:11.5

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf/Pg) 7.7/10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-P						
BCDL 10.0								Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=56/2-7-6, 4=56/2-7-6, 6=58/2-7-6
Max Horz 2=36(LC 11)
Max Uplift 2=-19(LC 12), 4=-19(LC 12)
Max Grav 2=88(LC 2), 4=88(LC 2), 6=80(LC 7)

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=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 2 and 19 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

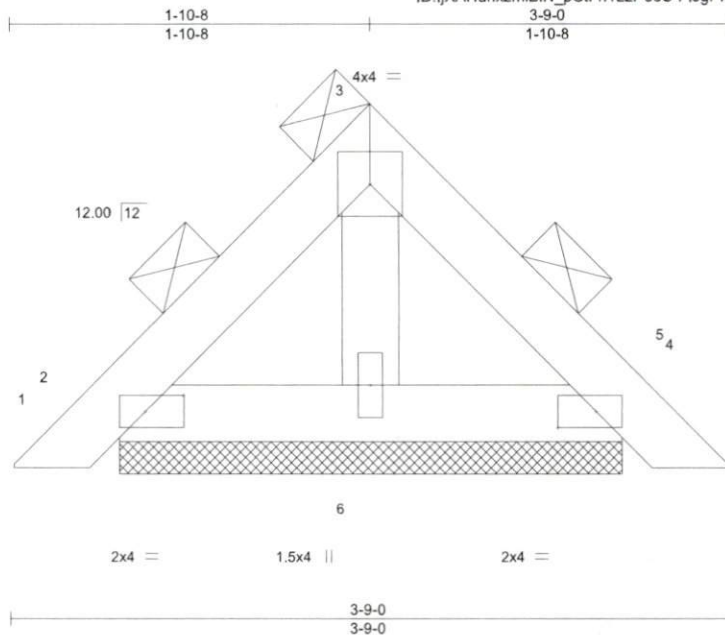
818 Soundside Road
Edenton, NC 27932

Job T19-04059	Truss PB02	Truss Type Piggyback	Qty 2	Ply 3	MOSS	E12932019
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Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:24 2019 Page 1

ID:l|XAHdxzmiBiN_pCtFn1LzPo6S-PIJgPN|2F7vbTytCofJPx9sDxd_NqGbcTYDiBTzPZ1v



Scale = 1:11.5

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	4-6-0	TC 0.01	Vert(LL)	0.00	4	n/r	MT20	244/190
Snow (Pf/Pg) 7.7/10.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	0.00	4	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 40 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=125/2-7-6, 4=125/2-7-6, 6=131/2-7-6
Max Horz 2=80(LC 11)
Max Uplift 2=-42(LC 12), 4=-42(LC 12)
Max Grav 2=197(LC 2), 4=197(LC 2), 6=180(LC 7)

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

NOTES-

- 3-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: 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=7.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be User Defined crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2 and 42 lb uplift at joint 4.
- 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.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 18, 2019

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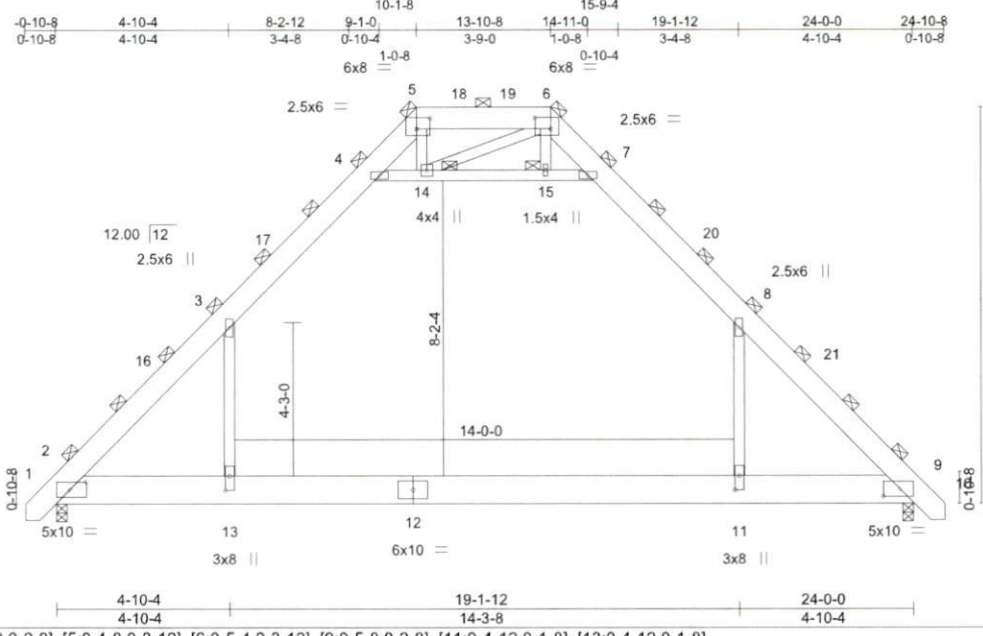
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job T19-04059	Truss TG01	Truss Type Attic Girder	Qty 2	Ply 3	MOSS Job Reference (optional)	E12932020
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Longleaf Truss Company, West End, NC - 27376,

8,240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:25 2019 Page 1
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Scale = 1:61.9

Plate Offsets (X,Y)-- [2:0-5-8,0-2-8], [5:0-4-8,0-3-12], [6:0-5-4,0-3-12], [9:0-5-8,0-2-8], [11:0-4-12,0-1-8], [13:0-4-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	4-6-0	TC 0.48	Vert(LL)	-0.28 11-13	>999	240	MT20	244/190
Snow (Pf/Pg) 12.7/10.0	Plate Grip DOL 1.15	BC 0.39	Vert(CT)	-0.39 11-13	>731	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Horz(CT)	0.01 9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Attic	-0.17 11-13	1033	360		
BCDL 10.0	Code IRC2018/TPI2014						Weight: 701 lb	FT = 20%

LUMBER-
TOP CHORD 2x8 SP DSS
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 5, 6, 14, 15

REACTIONS. (lb/size) 2=1857/0-3-8, 9=1857/0-3-8
Max Horz 2=-527(LC 10)
Max Grav 2=3332(LC 25), 9=3785(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4505/0, 3-4=-2500/98, 4-5=-180/1174, 5-6=0/2056, 6-7=-230/1044, 7-8=-2474/97, 8-9=-4533/0
BOT CHORD 2-13=0/2565, 11-13=0/2592, 9-11=0/2559
WEBS 3-13=0/2639, 4-14=-4492/83, 14-15=-4233/79, 7-15=-4270/76, 8-11=0/2738, 5-14=0/432, 6-14=-427/197, 6-15=0/309

- NOTES-**
- 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 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=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=12ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=10.0 psf; Pf=12.7 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0 Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 7.7 psf on overhangs non-concurrent with other live loads.
 - 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.
 - Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-14, 14-15, 7-15; Wall dead load (5.0psf) on member(s).3-13, 8-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
 - All bearings are assumed to be User Defined crushing capacity of 425 psi.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



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

Job	Truss	Truss Type	Qty	Ply	MOSS
T19-04059	TG01	Attic Girder	2	3	Job Reference (optional)

E12932020

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:25 2019 Page 2
ID:ljXAHdxzmiBiN_pClFn1LzPo6S-tyt3cjkg0J1S56SOMNqEUNOHL1EdZd8lICzQjvPZ1u**NOTES-**

- 15) Load case(s) 3, 4, 5, 6, 17, 20, 21, 22, 23, 24, 25, 26, 27, 28, 31, 32, 33, 34, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 53, 54, 63, 64, 65, 66, 67, 68, 69, 70, 73, 74, 75, 76, 77, 78, 79, 80 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-80, 3-4=-102, 4-5=-80, 5-6=-102, 6-7=-80, 7-8=-102, 8-10=-80, 2-9=-45, 4-7=-23

Drag: 3-13=-23, 8-11=-23

3) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-112, 3-4=-135, 4-5=-112, 5-6=-113, 6-7=-112, 7-8=-135, 8-10=-113, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Drag: 3-13=-23, 8-11=-23

4) Dead + 0.75 Snow (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-71, 3-4=-93, 4-5=-71, 5-6=-88, 6-7=-71, 7-8=-93, 8-10=-71, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Drag: 3-13=-23, 8-11=-23

5) Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-71, 3-4=-93, 4-5=-71, 5-6=-106, 6-7=-53, 7-8=-75, 8-10=-53, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Drag: 3-13=-23, 8-11=-23

6) Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-53, 3-4=-75, 4-5=-53, 5-6=-106, 6-7=-71, 7-8=-93, 8-10=-71, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Drag: 3-13=-23, 8-11=-23

17) Dead + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-45, 3-4=-68, 4-5=-45, 5-6=-45, 6-7=-45, 7-8=-67, 8-10=-45, 2-13=-45, 11-13=-225, 9-11=-205(F=-160), 4-7=-23

Drag: 3-13=-23, 8-11=-23

20) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-3=-45, 3-4=-68, 4-5=-45, 5-6=-45, 6-7=-45, 7-8=-67, 8-10=-45, 2-13=-45, 11-13=-225, 9-11=-205(F=-160), 4-7=-23

Drag: 3-13=-23, 8-11=-23

21) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-86, 2-3=-93, 3-4=-116, 4-5=-93, 5-6=-89, 6-7=-57, 7-8=-79, 8-9=-57, 9-10=-49, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22

Drag: 3-13=-23, 8-11=-23

22) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-49, 2-3=-57, 3-4=-79, 4-5=-57, 5-6=-89, 6-7=-93, 7-8=-116, 8-9=-93, 9-10=-86, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15

Drag: 3-13=-23, 8-11=-23

23) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-64, 2-3=-72, 3-4=-95, 4-5=-72, 5-6=-89, 6-7=-72, 7-8=-95, 8-9=-72, 9-10=-64, 2-13=-45, 11-13=-180,

9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

24) Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-64, 2-3=-72, 3-4=-95, 4-5=-72, 5-6=-89, 6-7=-72, 7-8=-95, 8-9=-72, 9-10=-64, 2-13=-45, 11-13=-180,

9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

25) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-127, 2-3=-135, 3-4=-157, 4-5=-135, 5-6=-114, 6-7=-98, 7-8=-121, 8-9=-98, 9-10=-91, 2-13=-45, 11-13=-180,

9-11=-165(F=-120), 4-7=-23

Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22

Drag: 3-13=-23, 8-11=-23

26) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-91, 2-3=-98, 3-4=-121, 4-5=-98, 5-6=-114, 6-7=-135, 7-8=-157, 8-9=-135, 9-10=-127, 2-13=-45, 11-13=-180,

9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15

Drag: 3-13=-23, 8-11=-23

27) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MOSS	E12932020
T19-04059	TG01	Attic Girder	2	3	Job Reference (optional)	

Lingleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MITek Industries, Inc. Thu Apr 18 07:05:25 2019 Page 3
ID:ljXAHdHzmiBiN_pClFn1LzPo6S-tyt3cjkg0J1S56SOMNqeUNOHL1EdZd8liCzQjvzPZ1u

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-106, 2-3=-114, 3-4=-136, 4-5=-114, 5-6=-114, 6-7=-114, 7-8=-136, 8-9=-114, 9-10=-106, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 28) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-106, 2-3=-114, 3-4=-136, 4-5=-114, 5-6=-114, 6-7=-114, 7-8=-136, 8-9=-114, 9-10=-106, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 31) 3rd Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-53, 3-4=-75, 4-5=-53, 5-6=-106, 6-7=-53, 7-8=-75, 8-10=-53, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 32) 4th Dead + 0.75 Snow (Unbal. Left) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-71, 3-17=-93, 4-17=-129, 4-5=-106, 5-6=-53, 6-7=-53, 7-8=-75, 8-10=-53, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 33) 5th Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-53, 3-4=-75, 4-5=-53, 5-6=-106, 6-7=-53, 7-8=-75, 8-10=-53, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 34) 6th Dead + 0.75 Snow (Unbal. Right) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-53, 3-4=-75, 4-5=-53, 5-6=-53, 6-7=-106, 7-20=-129, 8-20=-93, 8-10=-71, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 41) 13th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-53, 3-4=-75, 4-5=-53, 5-6=-139, 6-7=-53, 7-8=-75, 8-10=-53, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 42) 14th Unbal.Dead + 0.75 Snow (balanced) + 0.75 Attic Floor + Parallel: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-16=-71, 3-16=-139, 3-4=-161, 4-5=-139, 5-6=-53, 6-7=-139, 7-8=-161, 8-21=-139, 10-21=-71, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 43) 15th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-75, 3-4=-98, 4-5=-75, 5-6=-140, 6-7=-39, 7-8=-61, 8-9=-39, 9-10=-31, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22
Drag: 3-13=-23, 8-11=-23
- 44) 16th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-86, 2-16=-93, 3-16=-161, 3-4=-183, 4-5=-161, 5-6=-54, 6-7=-124, 7-8=-147, 8-21=-124, 9-21=-57, 9-10=-49, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22
Drag: 3-13=-23, 8-11=-23
- 45) 17th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-31, 2-3=-39, 3-4=-61, 4-5=-39, 5-6=-140, 6-7=-75, 7-8=-98, 8-9=-75, 9-10=-67, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15
Drag: 3-13=-23, 8-11=-23
- 46) 18th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-16=-57, 3-16=-124, 3-4=-147, 4-5=-124, 5-6=-54, 6-7=-161, 7-8=-183, 8-21=-161, 9-21=-93, 9-10=-86, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15
Drag: 3-13=-23, 8-11=-23
- 47) 19th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-46, 2-3=-54, 3-4=-76, 4-5=-54, 5-6=-140, 6-7=-54, 7-8=-76, 8-9=-54, 9-10=-46, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 48) 20th Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-64, 2-16=-72, 3-16=-140, 3-4=-162, 4-5=-140, 5-6=-54, 6-7=-140, 7-8=-162, 8-21=-140, 9-21=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 49) 21st Unbal.Dead + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4



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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MOSS	E12932020
T19-04059	TG01	Attic Girder	2	3	Job Reference (optional)	

Longleaf Truss Company, West End, NC - 27376,

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:25 2019 Page 4
ID:ijXAHdxzmiBiN_pCifn1LzPo6S-ty13cjkq0J1S56SOMNqeUNOHL1EdZd8llCzQjvzPZ1u

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-2=-46, 2-3=-54, 3-4=-76, 4-5=-54, 5-6=-140, 6-7=-54, 7-8=-76, 8-9=-54, 9-10=-46, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 50) 22nd Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-64, 2-16=-72, 3-16=-140, 3-4=-162, 4-5=-140, 5-6=-54, 6-7=-140, 7-8=-162, 8-21=-140, 9-21=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 53) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-112, 3-4=-135, 4-5=-112, 5-6=-113, 6-7=-45, 7-8=-67, 8-10=-45, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 54) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-45, 3-4=-68, 4-5=-45, 5-6=-113, 6-7=-112, 7-8=-135, 8-10=-113, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Drag: 3-13=-23, 8-11=-23
- 63) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-86, 2-3=-93, 3-4=-116, 4-5=-93, 5-6=-89, 6-7=-57, 7-8=-79, 8-9=-57, 9-10=-49, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22
Drag: 3-13=-23, 8-11=-23
- 64) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-49, 2-3=-57, 3-4=-79, 4-5=-57, 5-6=-89, 6-7=-93, 7-8=-116, 8-9=-93, 9-10=-86, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15
Drag: 3-13=-23, 8-11=-23
- 65) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-64, 2-3=-72, 3-4=-95, 4-5=-72, 5-6=-89, 6-7=-72, 7-8=-95, 8-9=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 66) Reversal: Dead + 0.75 Snow (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-64, 2-3=-72, 3-4=-95, 4-5=-72, 5-6=-89, 6-7=-72, 7-8=-95, 8-9=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 67) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-127, 2-3=-135, 3-4=-157, 4-5=-135, 5-6=-114, 6-7=-98, 7-8=-121, 8-9=-98, 9-10=-91, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22
Drag: 3-13=-23, 8-11=-23
- 68) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-91, 2-3=-98, 3-4=-121, 4-5=-98, 5-6=-114, 6-7=-135, 7-8=-157, 8-9=-135, 9-10=-127, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15
Drag: 3-13=-23, 8-11=-23
- 69) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-106, 2-3=-114, 3-4=-136, 4-5=-114, 5-6=-114, 6-7=-114, 7-8=-136, 8-9=-114, 9-10=-106, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 70) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-106, 2-3=-114, 3-4=-136, 4-5=-114, 5-6=-114, 6-7=-114, 7-8=-136, 8-9=-114, 9-10=-106, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7
Drag: 3-13=-23, 8-11=-23
- 73) Reversal: 15th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-67, 2-3=-75, 3-4=-98, 4-5=-75, 5-6=-140, 6-7=-39, 7-8=-61, 8-9=-39, 9-10=-31, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23
Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22
Drag: 3-13=-23, 8-11=-23
- 74) Reversal: 16th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	MOSS	
T19-04059	TG01	Attic Girder	2	3		E12932020

Longleaf Truss Company, West End, NC - 27376.

8.240 s Dec 6 2018 MiTek Industries, Inc. Thu Apr 18 07:05:26 2019 Page 5
 ID:ijXAHdxzmiBiN_pCtFn1LzPo6S-tyt3cjkg0J1S56SOMNqeUNOHL1EdZd8liCzQjuzPZ1u

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-86, 2-16=-93, 3-16=-161, 3-4=-183, 4-5=-161, 5-6=-54, 6-7=-124, 7-8=-147, 8-21=-124, 9-21=-57, 9-10=-49, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=15, 2-5=22, 6-9=14, 9-10=22

Drag: 3-13=-23, 8-11=-23

75) Reversal: 17th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-31, 2-3=-39, 3-4=-61, 4-5=-39, 5-6=-140, 6-7=-75, 7-8=-98, 8-9=-75, 9-10=-67, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15

Drag: 3-13=-23, 8-11=-23

76) Reversal: 18th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right) + Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-49, 2-16=-57, 3-16=-124, 3-4=-147, 4-5=-124, 5-6=-54, 6-7=-161, 7-8=-183, 8-21=-161, 9-21=-93, 9-10=-86, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-22, 2-5=-14, 6-9=-22, 9-10=-15

Drag: 3-13=-23, 8-11=-23

77) Reversal: 19th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-3=-54, 3-4=-76, 4-5=-54, 5-6=-140, 6-7=-54, 7-8=-76, 8-9=-54, 9-10=-46, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

78) Reversal: 20th Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-64, 2-16=-72, 3-16=-140, 3-4=-162, 4-5=-140, 5-6=-54, 6-7=-140, 7-8=-162, 8-21=-140, 9-21=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

79) Reversal: 21st Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-46, 2-3=-54, 3-4=-76, 4-5=-54, 5-6=-140, 6-7=-54, 7-8=-76, 8-9=-54, 9-10=-46, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

80) Reversal: 22nd Unbal.Death + 0.75 Snow (unbal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-2=-64, 2-16=-72, 3-16=-140, 3-4=-162, 4-5=-140, 5-6=-54, 6-7=-140, 7-8=-162, 8-21=-140, 9-21=-72, 9-10=-64, 2-13=-45, 11-13=-180, 9-11=-165(F=-120), 4-7=-23

Horz: 1-2=-7, 2-5=1, 6-9=-1, 9-10=7

Drag: 3-13=-23, 8-11=-23

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

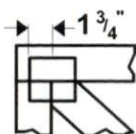
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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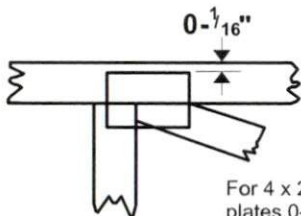
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

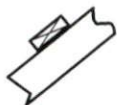
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 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

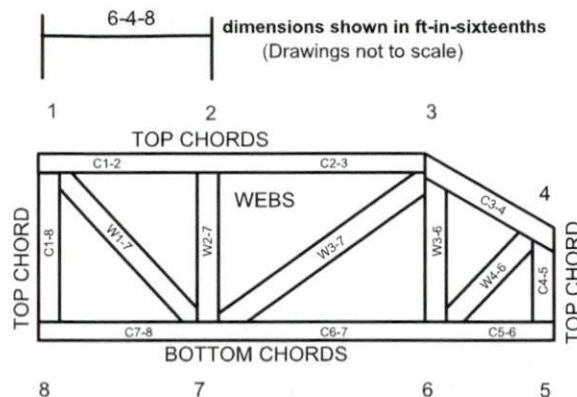


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015

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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.