



RE: 2718981 - DETAILS

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: DETAILS Project Name: N/A Model: N/A Lot/Block: N/A Subdivision: N/A

Address: N/A, N/A

City: N/A

State: N/A

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):** 

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 20 individual, General Truss Details and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Detail Name	Date	No.	Seal#	Detail Name	Date
1	T23399806	MII-REP10	4/2/21	15	T23399820	MII-VALLEY HIGH WIND2	4/2/21
2	T23399807	MII-T-BRACE 2	4/2/21	16	T23399821	MII-VALLEY SP	4/2/21
3	T23399808	MII-SCAB-BRACE	4/2/21	17	T23399822	MII-VALLEY SP	4/2/21
4	T23399809	MII-REP05	4/2/21	18	T23399823	MII-GE146-001	4/2/21
5	T23399810	MII-GE130-D-SP	4/2/21	19	T23399824	MII-REP13B	4/2/21
6	T23399811	MII-GE130-SP	4/2/21	20	T23399825	MII-STRGBCK	4/2/21
/	T23399812	MII-GE140-001	4/2/21				
8	T23399813	MII-GE170-D-SP	4/2/21				
9	T23399814	MII-GE180-D-SP	4/2/21				
10	T23399815	MII-GE180-D-SP MII-PIGGY-ALT-7-16	4/2/21				
11 12	T23399816 T23399817	MII-REP01A1	4/2/21 4/2/21				
13	T23399818	MII-TOENAIL SP	4/2/21 4/2/21				
14	T23399819	MII-VALLEY HIGH WIND1					
14	123399019	MIII-AMPEL LIGH MIND!	4/2/21				

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

**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.



MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



RE: \$JOBNAME - \$JOBDESC

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

### **Site Information:**

Customer Info: \$SI\_CUSTOMER Project Name: \$SI\_JOBNAME Model: \$SI\_MODEL Lot/Block: \$SI\_LOTNUM Subdivision: \$SI\_SUBDIV Address: \$SI\_SITEADDR

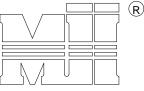
City: \$SI\_SITECITY State: \$SI\_SITESTATE OCTOBER 28, 2016

### STANDARD REPAIR FOR ADDING A FALSE BOTTOM CHORD

MII-REP10 T23399806

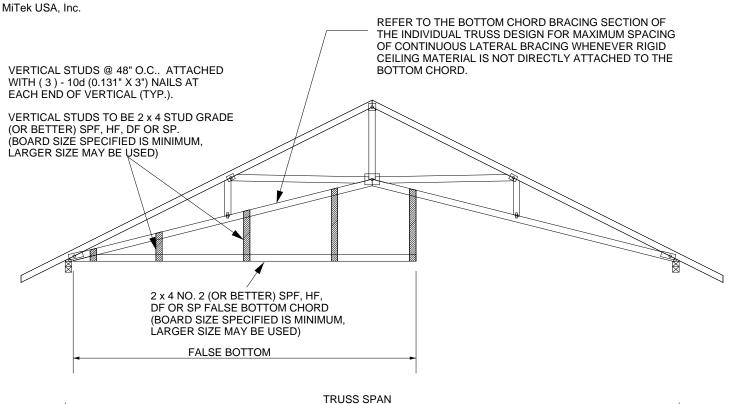
MiTek USA, Inc.

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MAIN TRUSS MANUFACTURED WITHOUT FALSE BOTTOM CHORD.

MAIN TRUSS (SPACING = 24" O.C.)



### NOTES:

- 1. LOADING: TOP CHORD: (REFER TO THE MAIN TRUSS DESIGN FOR TOP CHORD LOADING). BOTTOM CHORD: LL = 0 PSF, DL = 10 PSF.
- 2. REFER TO THE MAIN TRUSS DESIGN FOR LUMBER AND PLATING REQUIREMENTS.
- 3. MAXIMUM BOTTOM CHORD PITCH = 6/12.
- 4. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID SPLITTING OF THE WOOD.
- 5. FALSE BOTTOM CHORD ONLY DESIGNED TO CARRY VERTICAL LOAD. NO LATERAL (SHEAR) LOAD ALLOWED.
- 6. FILLER MAY EXTEND FOR FULL LENGTH OF TRUSS.

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### T-BRACE / I-BRACE DETAIL WITH 2X BRACE ONLY

### MII-T-BRACE 2 T23399807

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Page 1 of 1



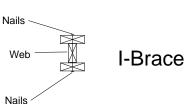
Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern					
T-Brace size Nail Size Nail Spacing					
2x4 or 2x6 or 2x8	10d (0.131" X 3")	6" o.c.			

Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)

	Nails
WEB	SPACING
	T-BRACE
Nails \	Section Detail  T-Brace  Web



	Brace Size for One-Ply Truss				
	Specified Continuous Rows of Lateral Bracing				
Web Size	1	2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace			
2x6	2x6 T-Brace	2x6 I-Brace			
2x8	2x8 T-Brace	2x8 I-Brace			

	Brace Size for Two-Ply Truss			
	Specified Continuous Rows of Lateral Bracing			
Web Size	1 2			
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace		
2x6	2x6 T-Brace 2x6 I-Brace			
2x8	2x8 T-Brace 2x8 I-Brace			

T-Brace / I-Brace must be same species and grade (or better) as web member.

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April 2,2021

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

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

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



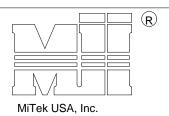
6904 Parke East Blvd. Tampa, FL 36610

### SCAB-BRACE DETAIL

### MII-SCAB-BRACE T23399808

MiTek USA, Inc.

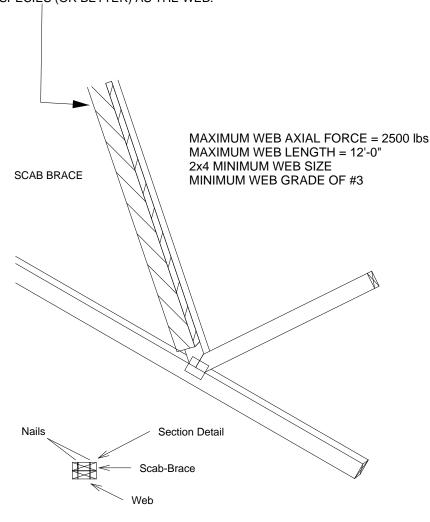
Page 1 of 1



Note: Scab-Bracing to be used when continuous lateral bracing at midpoint (or T-Brace) is impractical. Scab must cover full length of web +/- 6".

\*\*\* THIS DETAIL IS NOT APLICABLE WHEN BRACING IS \*\*\* REQUIRED AT 1/3 POINTS OR I-BRACE IS SPECIFIED.

SCAB TO ONE FACE OF WEB WITH APPLY 2x 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. SCAB MUST BE THE SAME GRADE, SIZE AND SPECIES (OR BETTER) AS THE WEB.



Scab-Brace must be same species grade (or better) as web member.

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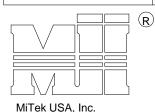
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610



### STANDARD REPAIR TO REMOVE END **VERTICAL (RIBBON NOTCH VERTICAL)**

### MII-REP05 T23399809

MiTek USA, Inc. Page 1 of 1

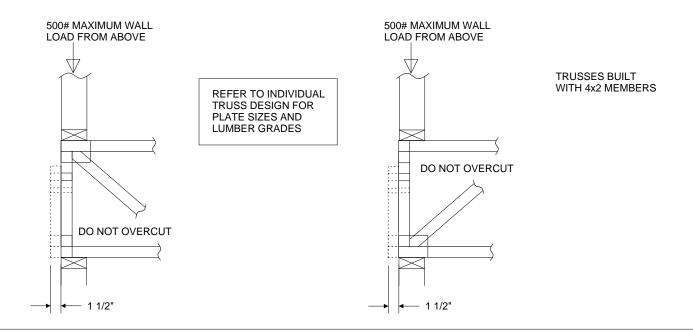


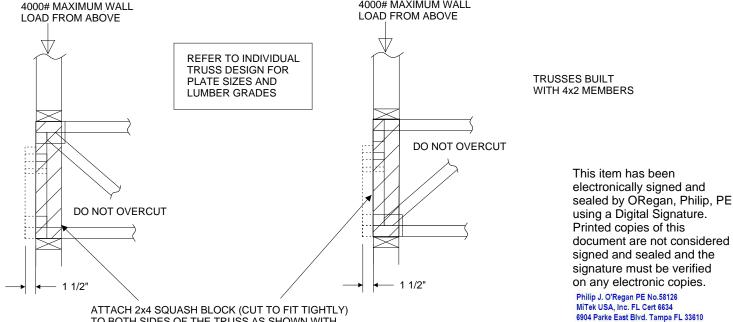
- 1. THIS IS A SPECIFIC REPAIR DETAIL TO BE USED ONLY FOR ITS ORIGINAL INTENTION. THIS REPAIR DOES NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE
- APPLYING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR.

  3. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE
- SUCH AS TO AVOID SPLITTING OF THE WOOD.

  4. LUMBER MUST BE CUT CLEANLY AND ACCURATELY AND THE REMAINING WOOD MUST BE UNDAMAGED.

  5. THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 4X\_ ORIENTATION ONLY.
- 6. CONNECTOR PLATES MUST BE FULLY IMBEDDED AND UNDISTURBED.





4000# MAXIMUM WALL

TO BOTH SIDES OF THE TRUSS AS SHOWN WITH 10d (0.131" X 3") NAILS SPACED 3" O.C.

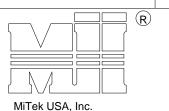


### Standard Gable End Detail

### MII-GE130-D-SP T23399810

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MiTek USA. Inc.



Typical \_x4 L-Brace Nailed To 2x\_ Verticals W/10d Nails spaced 6" o.c. Vertical Stud SECTION B-B

DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA \*\* 3x4 = - Diagonal Bracing - L-Bracing Refer \*\* Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

### Roof Sheathing

24" Max

1'-3" (2) - 10d/ Max. **NAILS** (2) - 10d NAILS

2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS. if needed

HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

### NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- 8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS	
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-13	4-1-1	5-9-6	7-1-3	11-5-7	
2x4 SP No. 3 / Stud	16" O.C.	3-5-4	3-6-8	5-0-2	6-10-8	10-3-13	
2x4 SP No. 3 / Stud	24" O.C.	2-9-11	2-10-11	4-1-1	5-7-6	8-5-1	

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE D

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Trusses @ 24" o.c.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

ASCE 7-10, ASCE 7-10 130 MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF COAD INCREASE LIFE AS OF READ NOT CONNECTION OF BRACTING IS BASED ON MY FIRST. 519/2020 BEFORE USE.

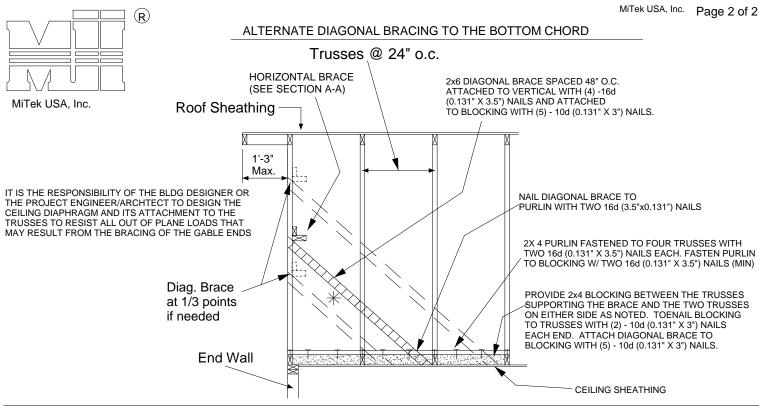
Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

\*\*ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



### Standard Gable End Detail

### MII-SHEET 2 T23399810



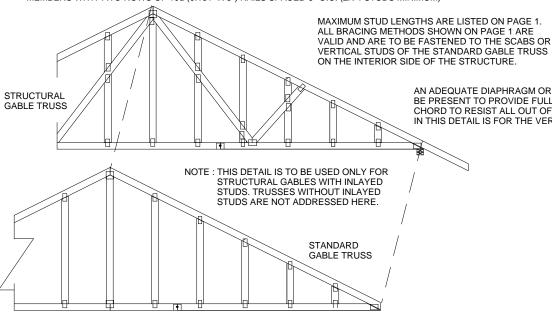
### BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

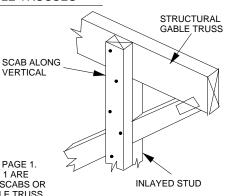
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X\_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

VERTICAL

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April 2,2021

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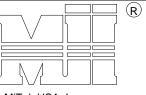


### Standard Gable End Detail

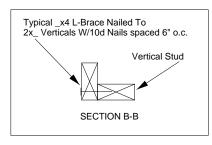
### MII-GE130-SP T23399811

Page 1 of 2

MiTek USA, Inc.



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DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. 12 Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 = - Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

### 2 NOTE:

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.

4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB

OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C. 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.

6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)

- GABLE STUD DEFLECTIÓN MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
   DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR
- TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Roof Sheathing	
24" Max   1'-3"   Max.	(2) - 10d NAILS  (2) - 10d NAILS  Trusses @ 24" o.c
Diag. Brace at 1/3 points if needed	2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH (4) -16d NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS.
End Wall	HORIZONTAL BRACE (SEE SECTION A-A)

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade				n Stud Length		
2x4 SP No. 3 / Stud	12" O.C.	4-0-7	4-5-6	6-3-8	8-0-15	12-1-6
2x4 SP No. 3 / Stud	16" O.C.	3-8-0	3-10-4	5-5-6	7-4-1	11-0-1
2x4 SP No. 3 / Stud	24" O.C.	3-0-10	3-1-12	4-5-6	6-1-5	9-1-15

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH

ASCE 7-36, ASCE 7-20 ISO MPH

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.

DURANION OF GABUNGREASE 1914.60 READ NOT CONNECTION OF BRACTINGRS BASED ON MWFRS. 5/19/2020 BEFORE USE.

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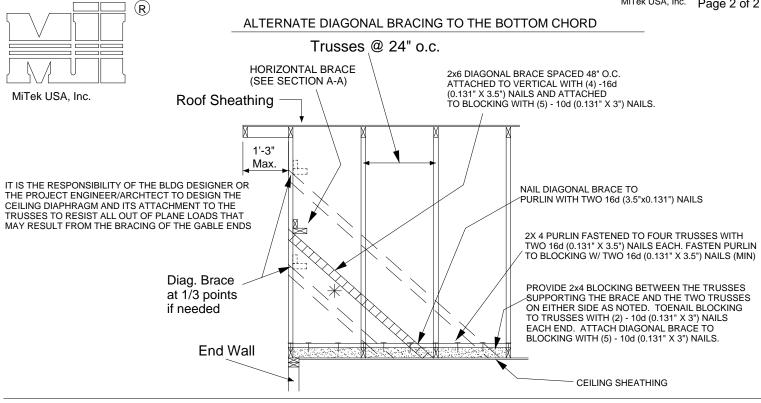
6904 Parke East Blvd

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MiTek USA, Inc. Page 2 of 2



### BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE

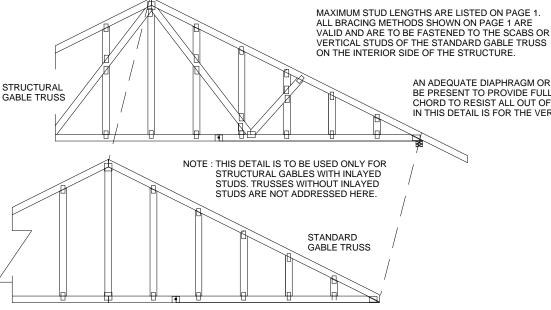
FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

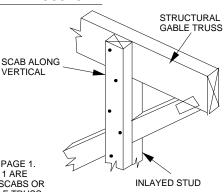
METHOD 2: ATTACH 2X \_ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.

- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, Ó2, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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

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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



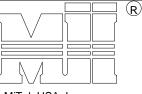
### **JANUARY 6, 2017**

### Standard Gable End Detail

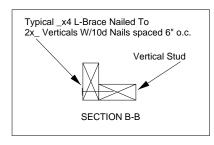
### MII-GE140-001 T23399812

Page 1 of 2

MiTek USA, Inc.



MiTek USA, Inc.



DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. 4'-0" O.C. MAX Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Diagonal Bracing \*\* - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD DF/SPF BLOCK

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND
- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.

  3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C. 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

	Roof Sheathi	ng —			
24" Max	1'-3" Max.	(2) - 1 NAILS	0d 33	Truss	(2) - 10d NAILS
at 1	g. Brace /3 points eeded	/ / /	ATTACHED NAILS AND	TO VERTICA	SPACED 48" O.C. AL WITH (4) -16d - 10d NAILS.
	End Wall			IORIZONTA SEE SECTI	

Minimum Stud Size Species	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
and Grade			ngth			
2x4 DF/SPF Std/Stud	12" O.C.	3-10-1	3-11-7	5-7-2	7-8-2	11-6-4
2x4 DF/SPF Std/Stud	16" O.C.	3-3-14	3-5-1	4-10-2	6-7-13	9-11-11
2x4 DF/SPF Std/Stud	24" O.C.	2-8-9	2-9-8	3-11-7	5-5-2	8-1-12

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length.

MAXIMUM WIND SPEED = 140 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING **EXPOSURE B or C** 

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April 2,2021

ASCE 7-98, ASCE 7-02, ASCE 7-05

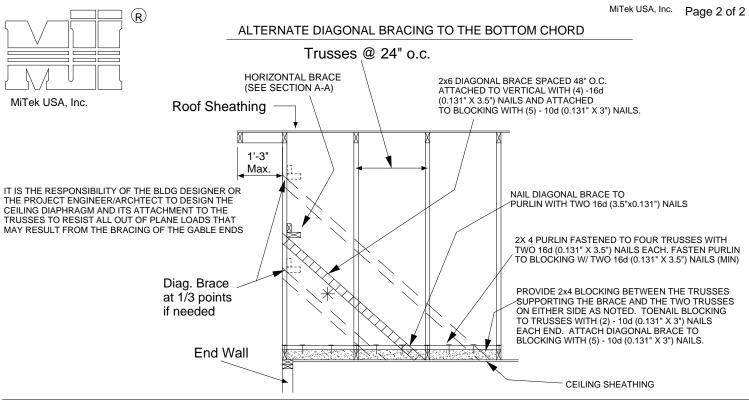
DURANON-OFIGOAD/INGREASE::pt.6:0 REAP GONNECTION IOFISBASED ON COMPONENTS AND CLADDING.

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

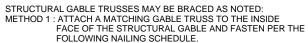
\*\*ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\*

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





### BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES



METHOD 2 : ATTACH 2X \_ SCABS TO THE FACE OF EACH VERTICAL

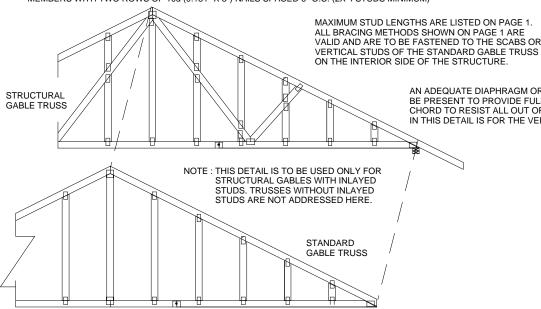
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

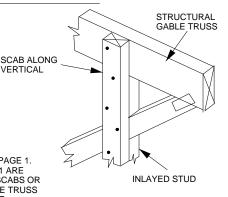
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAÎLS SPACED 6" O.C. (2X 4 STÚDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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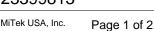
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### Standard Gable End Detail

### MII-GE170-D-SP T23399813





2x4 Verticals W/10d Nails spaced 6" o.c. Vertical Stud

3x4 =

24" Max

SECTION B-B DIAGONAL BRACE 4'-0" O.C. MAX TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA

\*\*

- L-Bracing Refer

to Section B-B

Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails **SECTION A-A** 2X4 SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SPF BLOCK

10d/

NAILS

Roof Sheathing

1'-0"

Max.

### NOTE:

- Diagonal Bracing

Refer to Section A-A

1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS. 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND

\*\*

- WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
  5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

at	iag. Brace 1/3 points needed	
	End Wall	\ \ \$I
DIAGONAL BRACES AT /3 POINTS		

Minimum Stud Size Species	Stud Spacing			DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length					
2x4 SP No. 3 / Stud	12" O.C.	3-9-7	5-8-8	6-11-1	11-4-4		
2x4 SP No. 3 / Stud	16" O.C.	3-4-12	4-11-15	6-9-8	10-2-3		
2x4 SP No. 3 / Stud	24" O.C.	2-9-4	4-0-7	5-6-8	8-3-13		
2x4 SP No. 2	12" O.C.	3-11-13	5-8-8	6-11-1	11-11-7		
2x4 SP No. 2	16" O.C.	3-7-7	4-11-5	6-11-1	10-10-5		
2x4 SP No. 2	24" O.C.	3-1-15	4-0-7	6-3-14	9-5-14		
. 1 .				-			

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 l-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6" o.c., with 3" minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

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(2) - 10d NAILS

∕Trusses @ 24" o.c.

2x6 DIAGONAL BRACE SPACED

BLOCKING WITH (5) -10d NAILS.

48" O.C. ATTACHED TO VERTICAL WITH

HORIZONTAL BRACE

(SEE SECTION A-A)

(4) -16d NAILS, AND ATTACHED TO

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April 2,2021

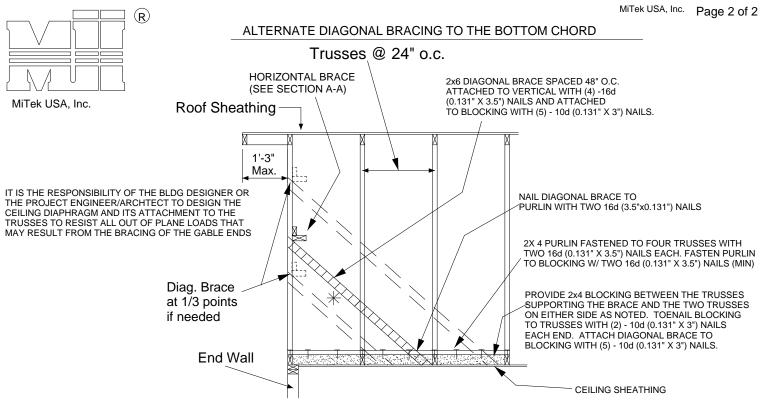
MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

TUD DESIGN IS BASED ON COMPONENTS DURATION OF LOAD INCREASE: 1.60
WARNING - Verify design parameters and READ NOTE CONNECTION OF BRACING IS BASED ON MAYERS: 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters and roperly incorporate this design in the overall 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 

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STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

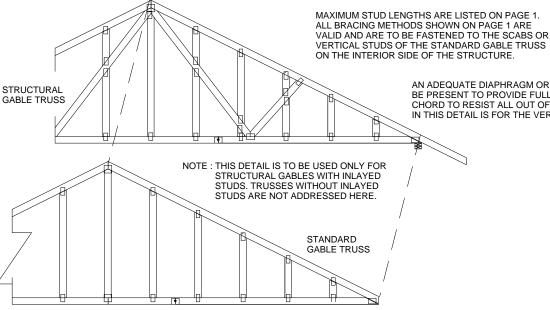
METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

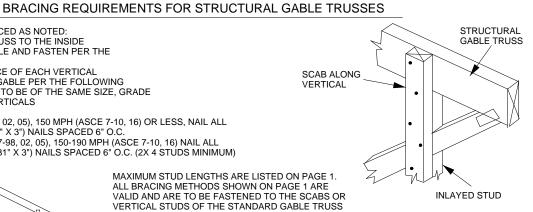
FOLLOWING NAILING SCHEDULE.

METHOD 2: ATTACH 2X\_SCABS TO THE FACE OF EACH VERTICAL
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING
NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

EING SCHEDEL:
- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL
- MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL
- MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021

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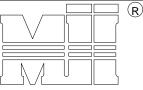


### Standard Gable End Detail

### MII-GE180-D-SP T23399814



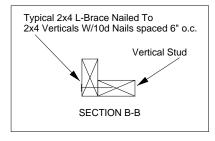
Page 1 of 2



DIAGONAL BRACE

4'-0" O.C. MAX

MiTek USA, Inc.



TRUSS GEOMETRY AND CONDITIONS SHOWN ARE FOR ILLUSTRATION ONLY.

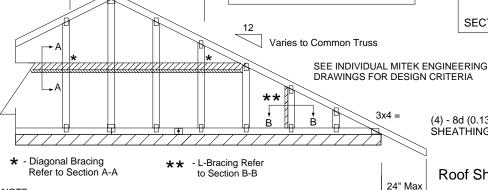
Vertical Stud 2X6 SP OR SPF No. 2 DIAGONAL BRACE (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2X6 SP OR SPF No. 2 Typical Horizontal Brace Nailed To 2x4 Verticals w/(4)-10d Nails **SECTION A-A** 2X4\SP OR SPF No. 2

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

SHEATHING TO 2x4 STD SPF BLOCK

End Wall

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD



### NOTE

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH, SPF or SP No.3 OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.

  5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF
- DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 AND A 2x4 AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST GABLE STUD. ATTACH TO VERTICAL GABLE STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.
- 10. SOUTHERN PINE LUMBER DESIGN VALUES ARE THOSE EFFECTIVE 06-01-13 BY SPIB/ALSC.
- 11. NAILS DESIGNATED 10d ARE (0.131" X 3") AND

NAILS DESIGNATED 16d ARE (0.131" X 3.5")							
Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade			Maximum St	ud Length			
2x4 SP No. 3 / Stud	12" O.C.	3-7-12	5-4-11	6-2-1	10-11-3		
2x4 SP No. 3 / Stud	16" O.C.	3-2-8	4-8-1	6-2-1	9-7-7		
2x4 SP No. 3 / Stud	24" O.C.	2-7-7	3-9-12	5-2-13	7-10-4		
2x4 SP No. 2	12" O.C.	3-10-0	5-4-11	6-2-1	11-6-1		
2x4 SP No. 2	16" O.C.	3-5-13	4-8-1	6-2-1	10-5-7		
2x4 SP No. 2	24" O.C.	3-0-8	3-9-12	6-1-1	9-1-9		

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of diagonal brace with 10d nails 6in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length. T or I braces must be 2x4 SPF No. 2 or SP No. 2.

Roof Sheathing 1'-0' (2) - 10d/ Max. NAILS (2) - 10d NAILS Trusses @ 24" o.c. Diag. Brace at 1/3 points 2x6 DIAGONAL BRACE SPACED 48" O.C. ATTACHED TO VERTICAL WITH if needed (4) -16d NAILS, AND ATTACHED TO BLOCKING WITH (5) -10d NAILS.

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HORIZONTAL BRACE

(SEE SECTION A-A)

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April 2,2021

MAX MEAN ROOF HEIGHT = 30 FEET EXPOSURE D

DURATION ARIJE OAD, INCREASE 1. 1910 READ NOTES CONNECTION OF BRACING I SEASED ON MAY FRS. 5/19/2020 BEFORE USE

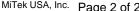
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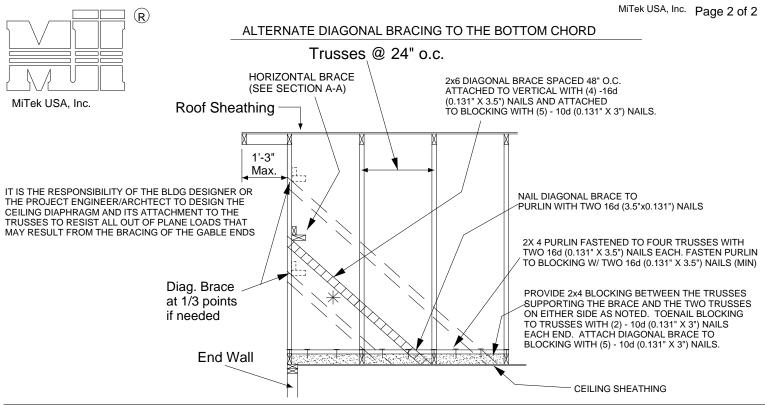
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



### Standard Gable End Detail

MII-SHEET 2 T23399814





### BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

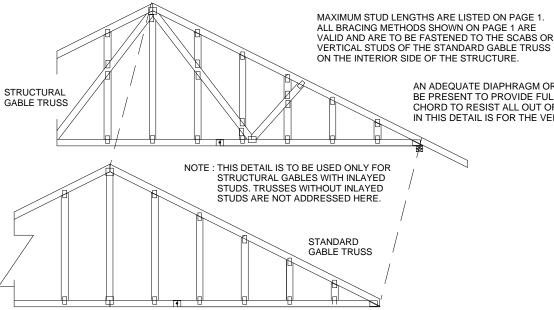
METHOD 2: ATTACH 2X \_ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE

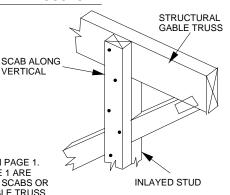
AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021

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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

MiTek USA, Inc. Page 1 of 1

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C **ENCLOSED BUILDING** LOADING = 5 PSF TCDL ASCE 7-10, ASCE 7-16

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES).

ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

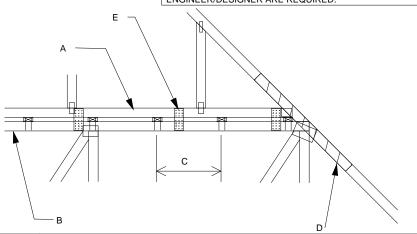
**DURATION OF LOAD INCREASE: 1.60** 

(R)

MiTek USA, Inc.

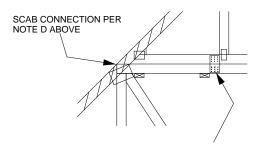
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
  SHALL BE CONNECTED TO EACH PURLIN
  WITH (2) (0.131" X 3.5") TOE-NAILED.
  B BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
  C PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
  UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.
- UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.

   2 X \_\_ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
   FOR WIND SPEEDS BETWEEN 116 AND 180 MPH, ATTACH
  MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) (0.131" X 1.5") NAILS PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" NAIL EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

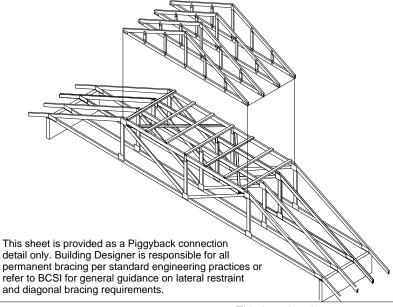


### WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

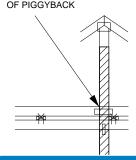
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



FOR ALL WIND SPEEDS, ATTACH MITEK NP37 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) (0.131" X 1.5") PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" NAIL EDGE DISTANCE.



VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD



### FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
- 4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS,
  NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
  5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH

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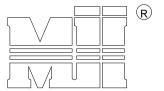


### JANUARY 8, 2019

### STANDARD PIGGYBACK TRUSS CONNECTION DETAIL

### MII-PIGGY-ALT-7-16 T23399816

Page 1 of 1 MiTek USA, Inc.



MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ENCLOSED BUILDING LOADING = 5 PSF TCDL MINIMUM

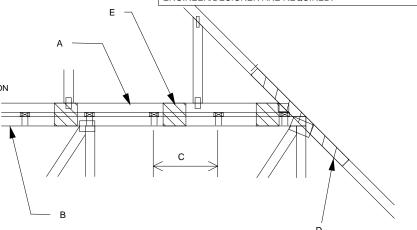
ASCE 7-10, ASCE 7-16 **DURATION OF LOAD INCREASE: 1.60** 

DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

- A PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN
  WITH (2) 0(0.131" X 3.5") TOE-NAILED.

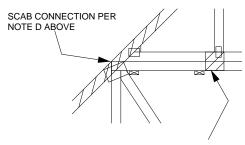
  BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.
  - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C.
  UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING.

- UNLESS SPECIFIED CLOSER OIN MITEX TRUSS DESIGN DRAWING.
  CONNECT TO BASE TRUSS WITH (2) (0.131" X 3.5") NAILS EACH.
   2 X \_ X 4'-0" SCAB, SIZE TO MATCH TOP CHORD OF
  PIGGYBACK TRUSS, MIN GRADE #2, ATTACHED TO ONE FACE, CENTERED ON
  INTERSECTION, WITH (2) ROWS OF (0.131" X 3") NAILS @ 4" O.C.
  SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
- 1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR 2. WIND SPEED OF 116 MPH TO 180 MPH WITH A MAXIMUM
- PIGGYBACK SPAN OF 12 ft.
  E FOR WIND SPEED IN THE RANGE 116 MPH 180 MPH ADD 9" x 9" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 48" O.C. OR LESS. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)

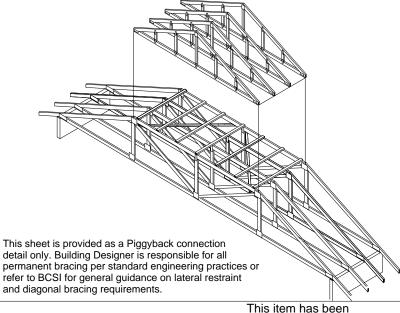


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

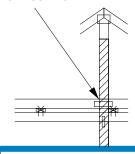
REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH PLYWOOD GUSSETS AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.



7" x 7" x 1/2" PLYWOOD (or 7/16" OSB) GUSSET EACH SIDE AT 24" O.C. ATTACH WITH 3 - 6d (0.113" X 2") NAILS INTO EACH CHORD FROM EACH SIDE (TOTAL - 12 NAILS)



VERTICAL WEB TO EXTEND THROUGH **BOTTOM CHORD** OF PIGGYBACK



### FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

- 1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL
- ATTACH 2 x \_\_\_ x 4-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH ATTACH 2 x VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
- THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS
- GREATER THAN 4000 LBS.
  4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
- 5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH IE PIGGYBACK AND THE BASE TRUSS DESIGN

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April 2,2021

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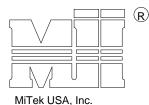


### STANDARD REPAIR DETAIL FOR BROKEN CHORDS, WEBS AND DAMAGED OR MISSING CHORD SPLICE PLATES

### MII-REP01A1 T23399817

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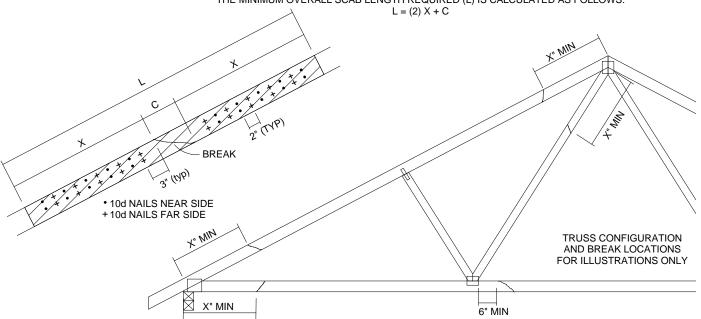


TOTAL NUMBER OF NAILS EACH SIDE OF BREAK *			MAXIMUM FORCE (lbs) 15% LOAD DURATION							
		X INCHES	SP		DF		SPF		HF	
2x4	2x6		2x4	2x6	2x4	2x6	2x4	2x6	2x4	2x6
20	30	24"	1706	2559	1561	2342	1320	1980	1352	2028
26	39	30"	2194	3291	2007	3011	1697	2546	1738	2608
32	48	36"	2681	4022	2454	3681	2074	3111	2125	3187
38	57	42"	3169	4754	2900	4350	2451	3677	2511	3767
44	66	48"	3657	5485	3346	5019	2829	4243	2898	4347

<sup>\*</sup> DIVIDE EQUALLY FRONT AND BACK

ATTACH 2x\_ SCAB OF THE SAME SIZE AND GRADE AS THE BROKEN MEMBER TO EACH FACE OF THE TRUSS (CENTER ON BREAK OR SPLICE) WITH 10d (0.131" X 3") NAILS (TWO ROWS FOR 2x4, THREE ROWS FOR 2x6) SPACED 4" O.C. AS SHOWN. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 0-2-0 O.C. SPACING IN THE MAIN MEMBER. USE A MIN. 0-3-0 MEMBER END DISTANCE.

THE LENGTH OF THE BREAK (C) SHALL NOT EXCEED 12". (C=PLATE LENGTH FOR SPLICE REPAIRS) THE MINIMUM OVERALL SCAB LENGTH REQUIRED (L) IS CALCULATED AS FOLLOWS:



THE LOCATION OF THE BREAK MUST BE GREATER THAN OR EQUAL TO THE REQUIRED X DIMENSION FROM ANY PERIMETER BREAK OR HEEL JOINT AND A MINIMUM OF 6" FROM ANY INTERIOR JOINT (SEE SKETCH ABOVE)

### DO NOT USE REPAIR FOR JOINT SPLICES

### NOTES

- THIS REPAIR DETAIL IS TO BE USED ONLY FOR THE APPLICATION SHOWN. THIS REPAIR DOES
  NOT IMPLY THAT THE REMAINING PORTION OF THE TRUSS IS UNDAMAGED. THE ENTIRE TRUSS
  SHALL BE INSPECTED TO VERIFY THAT NO FURTHER REPAIRS ARE REQUIRED. WHEN THE REQUIRED
  REPAIRS ARE PROPERLY APPLIED, THE TRUSS WILL BE CAPABLE OF SUPPORTING THE LOADS INDICATED.
- 2. ALL MEMBERS MUST BE RETURNED TO THEIR ORIGINAL POSITIONS BEFORE APPLING REPAIR AND HELD IN PLACE DURING APPLICATION OF REPAIR
- THE END DISTANCE, EDGE DISTANCE AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID
- LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.
  THIS REPAIR IS TO BE USED FOR SINGLE PLY TRUSSES IN THE 2x\_ ORIENTATION ONLY.
- 6. THIS REPAIR IS LIMITED TO TRUSSES WITH NO MORE THAN THREE BROKEN MEMBERS.

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### LATERAL TOE-NAIL DETAIL

MII-TOENAIL SP T23399818

MiTek USA. Inc.

Page 1 of 1



### NOTES:

- TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

> VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

> > SIDE VIEW (2x3) 2 NAILS

> > > NEAR SIDE NEAR SIDE

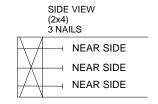
	TOE-NAIL SINGLE SHEAR VALUES PER NDS 2018 (lb/nail)									
	DIAM. SP DF HF SPF SPF-S									
b	.131	88.0	80.6	69.9	68.4	59.7				
3.5" LONG	.135	93.5	85.6	74.2	72.6	63.4				
	.162	108.8	99.6	86.4	84.5	73.8				
Э.										
5 G	.128	74.2	67.9	58.9	57.6	50.3				
3.25" LONG	.131	75.9	69.5	60.3	59.0	51.1				
	.148	81.4	74.5	64.6	63.2	52.5				
ω̈.										

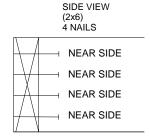
VALUES SHOWN ARE CAPACITY PER TOE-NAIL APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

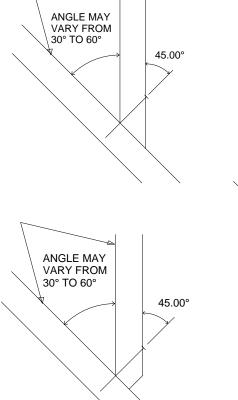
(3) - 16d (0.162" X 3.5") NAILS WITH SPF SPECIES BOTTOM CHORD

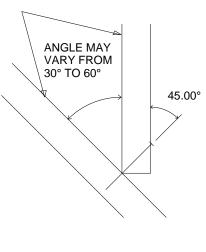
For load duration increase of 1.15:

3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity









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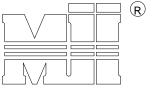


### TRUSSED VALLEY SET DETAIL

### MII-VALLEY HIGH WIND1 T23399819

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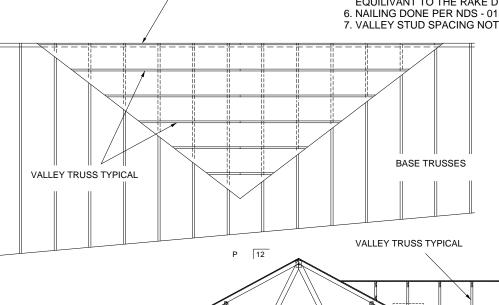
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### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT DO NOT USE DRYWALL OR DECKING TYPE SCREW
- 3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS

OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO USP WS3 (1/4" X 3") WOOD SCREWS INTO EACH BASE TRUSS.

**DETAIL A** (NO SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET

ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING

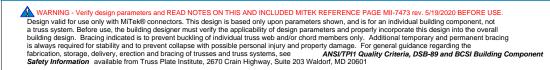
**EXPOSURE C** 

WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 6 PSF

ON THE TRUSSES

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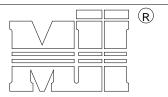
MiTek USA, Inc.

### TRUSSED VALLEY SET DETAIL

### MII-VALLEY HIGH WIND2 T23399820

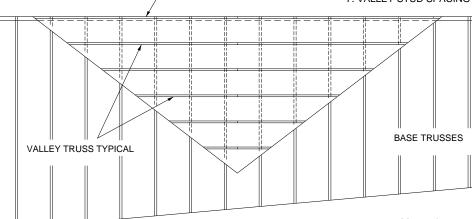
MiTek USA, Inc.

Page 1 of 1



### **GENERAL SPECIFICATIONS**

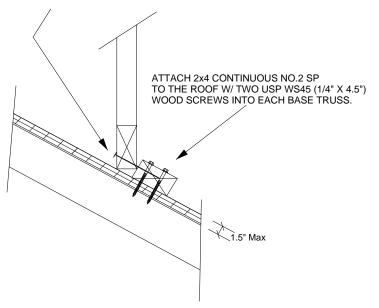
- 1. NAIL SIZE 10d (0.131" X 3")
- 2. WOOD SCREW = 4.5" WS45 USP OR EQUILIVANT
- 3. INSTALL SHEATHING TO TOP CHORD OF BASE TRUSSES.
- INSTALL SHEATING TO TOP CHORD OF BASE TRUS
   INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
   SECURE TO BASE TRUSSES AS PER DETAIL A
   BRACE VALLEY WEBS IN ACCORDANCE WITH THE
- INDIVIDUAL DESIGN DRAWINGS.
- 6. NAILING DONE PER NDS-01
- 7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



GABLE END, COMMON TRUSS OR GIRDER TRUSS

> GABLE END, COMMON TRUSS VALLEY TRUSS TYPICAL OR GIRDER TRUSS 12 SEE DETAIL A BELOW (TYP.)

SECURE VALLEY TRUSS W/ ONE ROW OF 10d NAILS 6" O.C.



WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 160 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12 CATEGORY II BUILDING EXPOSURE C WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 50 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF ON THE TRUSSES

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

April 2,2021



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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

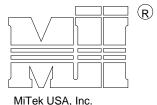


### TRUSSED VALLEY SET DETAIL

### MII-VALLEY SP T23399821

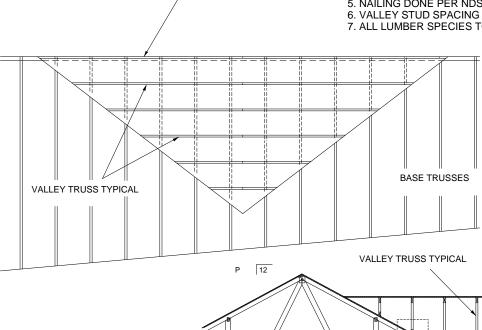
MiTek USA, Inc.

Page 1 of 1



### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.
- 7. ALL LUMBER SPECIES TO BE SP.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS. THE REAL PROPERTY. **DETAIL A** (MAXIMUM 1" SHEATHING) N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B
WIND DURATION OF LOAD INCREASE: 1.60
MAX TOP CHORD TOTAL LOAD = 60 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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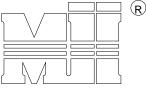


### TRUSSED VALLEY SET DETAIL

### MII-VALLEY SP T23399822

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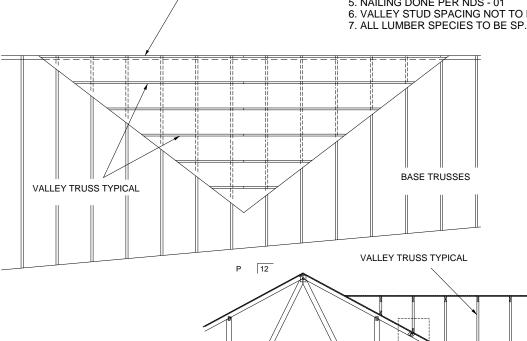
Page 1 of 1



MiTek USA, Inc.

### **GENERAL SPECIFICATIONS**

- 1. NAIL SIZE 16d (0.131" X 3.5")
- 2. INSTALL VALLÈY TRUSSES (24" O.C. MAXIMUM) AND SECURE PER DETAIL A
- 3. BRACE VALLEY WEBS IN ACCORDANCE WITH THE INDIVIDUAL DESIGN DRAWINGS.
- 4. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
- 5. NAILING DONE PER NDS 01
- 6. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.



SEE DETAIL A BELOW (TYP.)

GABLE END, COMMON TRUSS OR GIRDER TRUSS

GABLE END, COMMON TRUSS OR GIRDER TRUSS

SECURE VALLEY TRUSS W/ ONE ROW OF 16d NAILS 6" O.C. ATTACH 2x4 CONTINUOUS NO.2 SP TO THE ROOF W/ TWO 16d NAILS INTO EACH BASE TRUSS.

THE REAL PROPERTY. **DETAIL A** 

(MAXIMUM 1" SHEATHING)

N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 120 MPH WIND DESIGN PER ASCE 7-10, ASCE 7-16 150 MPH MAX MEAN ROOF HEIGHT = 30 FEET ROOF PITCH = MINIMUM 3/12 MAXIMUM 10/12 CATEGORY II BUILDING EXPOSURE C OR B WIND DURATION OF LOAD INCREASE: 1.60 MAX TOP CHORD TOTAL LOAD = 60 PSF MAX SPACING = 24" O.C. (BASE AND VALLEY) MINIMUM REDUCED DEAD LOAD OF 4.2 PSF ON THE TRUSSES

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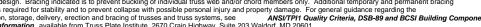
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April 2,2021

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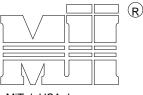


### Standard Gable End Detail

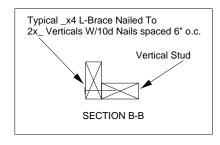
### MII-GE146-001 T23399823



Page 1 of 2



MiTek USA, Inc.



DIAGONAL BRACE TRUSS GEOMETRY AND CONDITIONS 4'-0" O.C. MAX SHOWN ARE FOR ILLUSTRATION ONLY. Varies to Common Truss SEE INDIVIDUAL MITEK ENGINEERING DRAWINGS FOR DESIGN CRITERIA 3x4 =Ŕ Diagonal Bracing - L-Bracing Refer Refer to Section A-A to Section B-B

Vertical Stud DIAGONAL (4) - 16d Nails 16d Nails Spaced 6" o.c. (2) - 10d Nails into 2x6 2x6 Stud or 2x4 No.2 of better Typical Horizontal Brace Nailed To 2x\_ Verticals w/(4)-10d Nails **SECTION A-A** 2x4 Stud

> PROVIDE 2x4 BLOCKING BETWEEN THE FIRST TWO TRUSSES AS NOTED. TOENAIL BLOCKING TO TRUSSES WITH (2) - 10d NAILS AT EACH END. ATTACH DIAGONAL BRACE TO BLOCKING WITH (5) - 10d NAILS.

(4) - 8d (0.131" X 2.5") NAILS MINIMUM, PLYWOOD SHEATHING TO 2x4 STD SP BLOCK

### NOTE:

- 1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
- 2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
- 3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
- 4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 2x4 No 3/STUD SP OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
- 5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
- 6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
- 7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
- THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES
- DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES
- 10. NAILS DESIGNATED 10d ARE (0.131" X 3") AND NAILS DESIGNATED 16d ARE (0.131" X 3.5")

Minimum Stud Size Species	Stud Spacing	Without Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS		
and Grade		Maximum Stud Length					
2x4 SP No 3/Stud	12" O.C.	3-11-3	6-8-0	7-2-14	11-9-10		
2x4 SP No 3/Stud	16" O.C.	3-6-14	5-9-5	7-1-13	10-8-11		
2x4 SP No 3/Stud	24" O.C.	3-1-8	4-8-9	6-2-15	9-4-7		

Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d nails 8" o.c., with 3" minimum

end distance. Brace must cover 90% of diagonal length.

Roof Sheathing 24" Max 1'-3' (2) - 10d/ Max. **NÁILS** (2) - 10d NAILS Trusses @ 24" o.c. 2x6 DIAGONAL BRACE SPACED 48" O.C. Diag. Brace ATTACHED TO VERTICAL WITH (4) -16d at 1/3 points NAILS AND ATTACHED TO BLOCKING WITH (5) - 10d NAILS. if needed HORIZONTAL BRACE **End Wall** (SEE SECTION A-A)

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April 2,2021

MAXIMUM WIND SPEED = 146 MPH MAX MEAN ROOF HEIGHT = 30 FEET CATEGORY II BUILDING

EXPOSURE B or C

ASCE 7-98, ASCE 7-02, ASCE 7-05
STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
DURANOMONONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.
DURANOMONO ON COMPONENTS AND CLADDING.

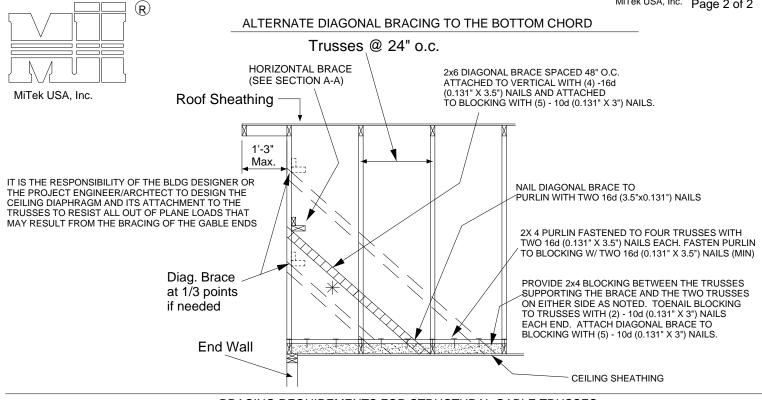
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



### Standard Gable End Detail

MII-SHEET 2 T23399823

MiTek USA, Inc. Page 2 of 2



### BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED: METHOD 1: ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE

FOLLOWING NAILING SCHEDULE.

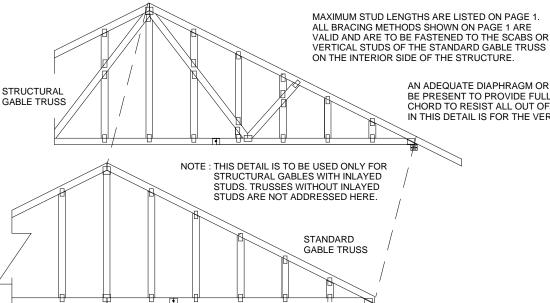
METHOD 2: ATTACH 2X SCABS TO THE FACE OF EACH VERTICAL

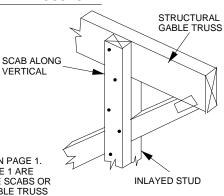
MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING

NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10, 16) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (0.131" X 3") NAILS SPACED 6" O.C. - FOR WIND SPEEDS 120-150 MPH (ASCE 7-98, 02, 05), 150-190 MPH (ASCE 7-10, 16) NAIL ALL

MEMBERS WITH TWO ROWS OF 10d (0.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)





AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

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April 2,2021





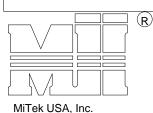
### **OCTOBER 5, 2016**

### REPLACE BROKEN OVERHANG

MII-REP13B T23399824

MiTek USA. Inc.

Page 1 of 1



TRUSS CRITERIA:

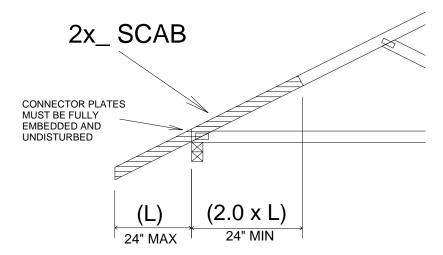
LOADING: 40-10-0-10 DURATION FACTOR: 1.15 SPACING: 24" O.C. TOP CHORD: 2x4 OR 2x6 PITCH: 4/12 - 12/12

HEEL HEIGHT: STANDARD HEEL UP TO 12" ENERGY HEEL

END BEARING CONDITION

### NOTES:

- 1. ATTACH 2x\_ SCAB (MINIMUM NO.2 GRADE SPF, HF, SP, DF) TO ONE FACE OF TRUSS WITH TWO ROWS OF 10d (0.131" X 3") SPACED 6" O.C.
- 2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
- 3. WHEN NAILING THE SCABS, THE USE OF A BACKUP WEIGHT IS RECOMMENDED TO AVOID LOOSENING OF THE CONNECTOR PLATES AT THE JOINTS OR SPLICES.



### **IMPORTANT**

This detail to be used only with trusses (spans less than 40') spaced 24" o.c. maximum and having pitches between 4/12 and 12/12 and total top chord loads not exceeding 50 psf.

Trusses not fitting these criteria should be examined individually.

REFER TO INDIVIDUAL TRUSS DESIGN FOR PLATE SIZES AND LUMBER GRADES This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610 Date:

April 2,2021



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

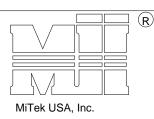
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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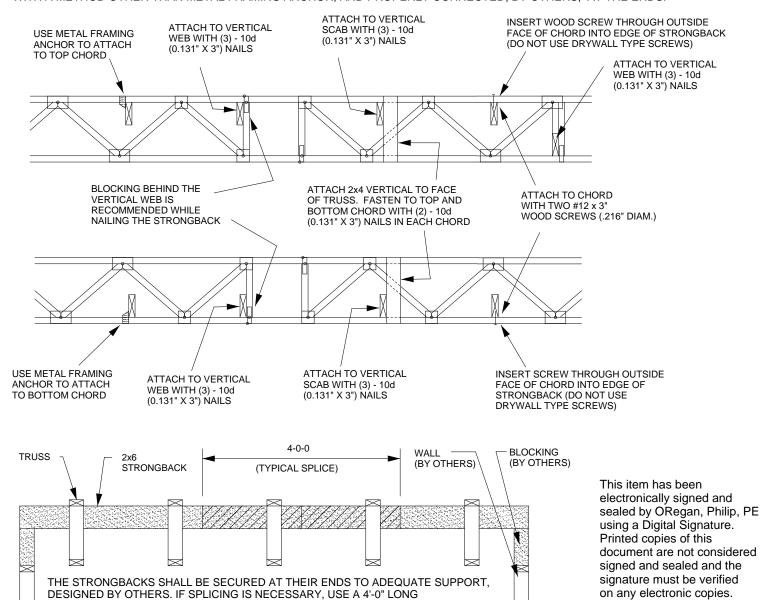
Page 1 of 1



TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.



(0.131" X 3") NAILS EQUALLY SPACED.
ALTERNATE METHOD OF SPLICING:

OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d (0.131" X 3") NAILS STAGGERED AND EQUALLY SPACED.

(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d

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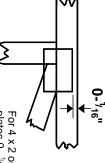


### Symbols

# PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

4 × 4

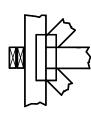
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

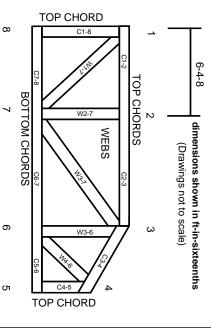
Min size shown is for crushing only

## Industry Standards:

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

ANSI/TPI1: DSB-89:

# **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

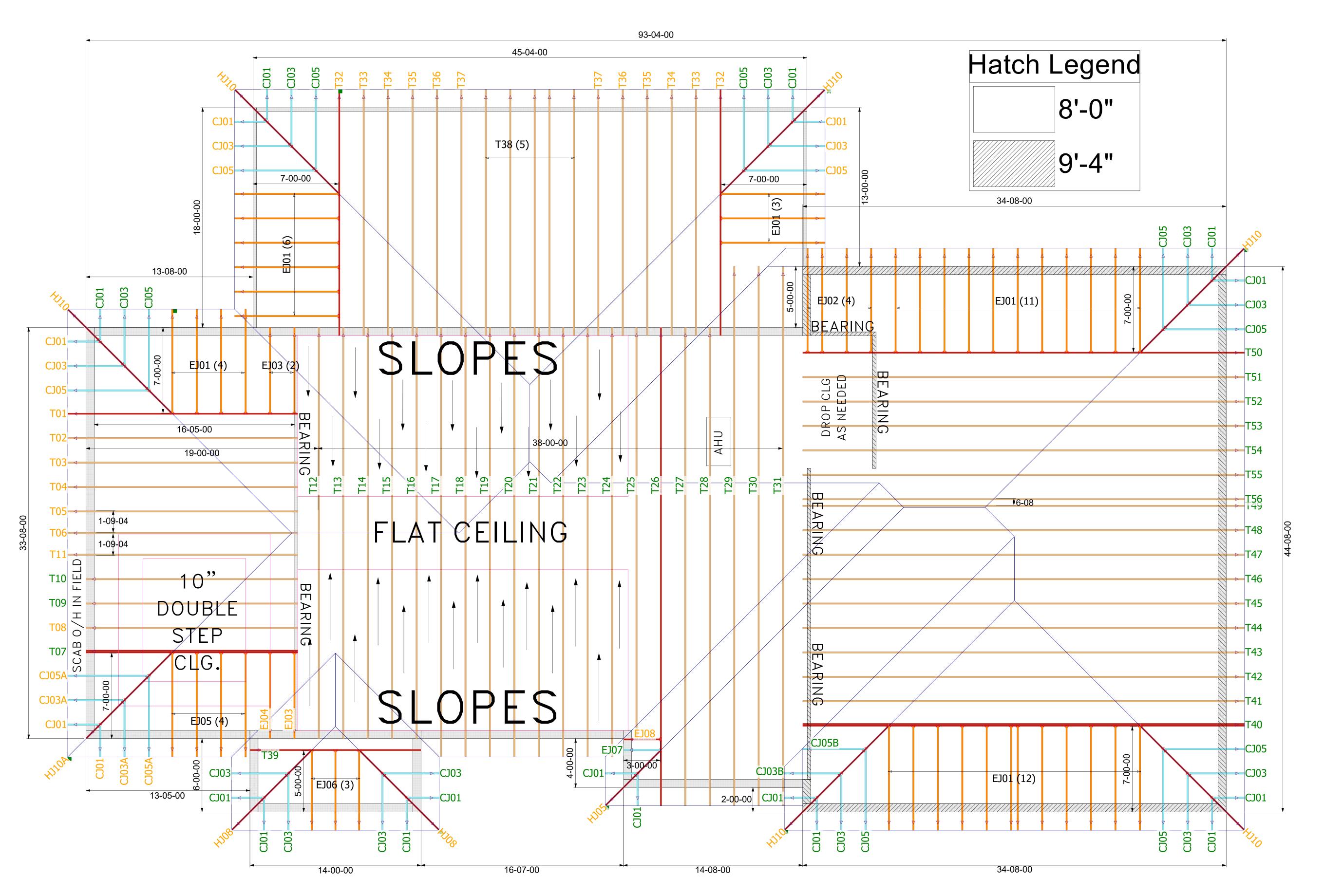
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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

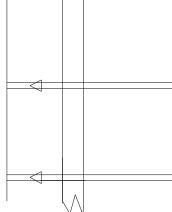
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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead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

## 5/12 PITCH — 18" 0/H



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT)
CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Cruss Manufacturer.

- Use Manufacturer's specifications for all hanger connections unless noted otherwise.

Trusses are to be 24" o.c. U.N.O.
All hangers are to be Simpson or equivalent U.N.O.
Use 10d x 1 1/2" Nails in hanger connections to single ply

- Trusses are not designed to support brick U.N.O.
- Dimensions are Feet-Inches- Sixteenths

Notes:

type of items.

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is

required, it will be supplied at no extra cost by Builders

FirstSource.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing requirements

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City
PHONE: 386-755-6894
FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

Tallahassee PHONE: 850-576-5177

Builder

BLAKE CONST.

Legal Address:

Shuman Res.

N/A

Model:
Custom

Custom

Date: Drawn

8-17-21 KI

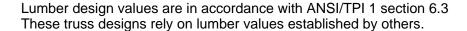
 Drawn By:
 Original Ref #:

 KLH
 2902489

 Floor 2 Job#:
 Roof Job #:

2902489

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2





RE: 2902489 - BLAKE CONST. - SHUMAN RES.

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

Site Information:

Customer Info: Blake Const. Project Name: Shuman Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

Address: 205 SW Madison Court, N/A

City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:

Address:

City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):** 

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 75 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T25055034	CJ01	8/18/21	23	T25055056	<u>T04</u>	8/18/21
2	T25055035	CJ03	8/18/21	24	T25055057	T05	8/18/21
3	T25055036	CJ03A CJ03B	8/18/21	25	T25055058	T06 T07	8/18/21
4 5	T25055037 T25055038	CJ03B CJ05	8/18/21 8/18/21	26 27	T25055059 T25055060	T08	8/18/21 8/18/21
6	T25055030	CJ05A	8/18/21	28	T25055060	T09	8/18/21
7	T25055040	CJ05B	8/18/21	<u>2</u> 9	T25055062	Ť10	8/18/21
8	T25055041	EJ01	8/18/21	30	T25055063	T11	8/18/21
9	T25055042	EJ02	8/18/21	31	T25055064	<u>T</u> 12	8/18/21
10	T25055043	EJ03	8/18/21	32	T25055065	T13	8/18/21
11	T25055044	EJ04 EJ05	8/18/21	33	T25055066	T14 T15	8/18/21
12 13	T25055045 T25055046	EJ05 EJ06	8/18/21 8/18/21	34 35	T25055067 T25055068	T16	8/18/21 8/18/21
14	T25055047	EJ07	8/18/21	36	T25055069	†17	8/18/21
15	T25055048	ĒJ08	8/18/21	37	T25055070	T18	8/18/21
16	T25055049	HJ05	8/18/21	38	T25055071	T19	8/18/21
17	T25055050	HJ08	8/18/21	39	T25055072	<u>T</u> 20	8/18/21
18	T25055051	HJ10	8/18/21	40	T25055073	T21	8/18/21
19	T25055052 T25055053	HJ10A T01	8/18/21	41	T25055074	T22 T23	8/18/21
20 21	T25055053	T02	8/18/21 8/18/21	42 43	T25055075 T25055076	T24	8/18/21 8/18/21
22	T25055054	T03	8/18/21	44	T25055070	T25	8/18/21
	0000000		0/10/21	• •	0000011	. = =	0/10/21

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

**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.



6904 Parke East Blvd. Tampa FL 33610

August 18,2021



RE: 2902489 - BLAKE CONST. - SHUMAN RES.

MiTek USA, Inc. 6904 Parke East Blvd. Tampa, FL 33610-4115

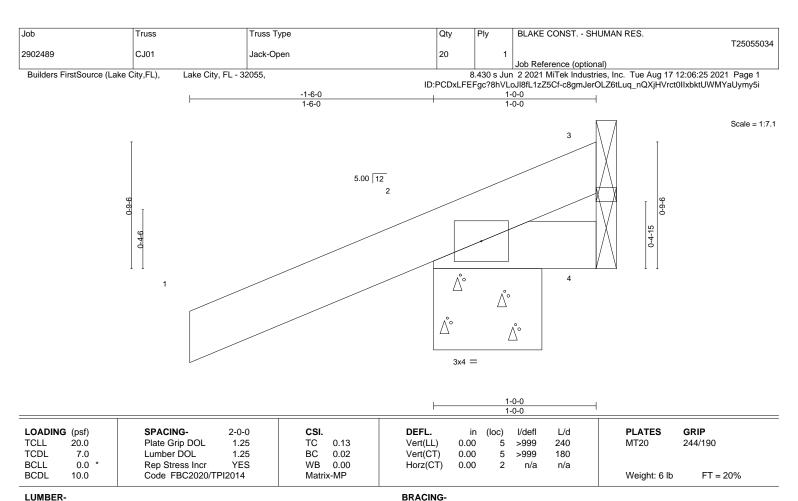
### **Site Information:**

Customer Info: Blake Const. Project Name: Shuman Res. Model: Custom Lot/Block: N/A Subdivision: N/A

Lot/Block: N/A Address: 205 SW Madison Court, N/A

City: Columbia Cty State: FL

No. 45 46 47 48 49 50	Seal# T25055078 T25055079 T25055080 T25055081 T25055082 T25055083	Truss Name T26 T27 T28 T29 T30 T31	Date 8/18/21 8/18/21 8/18/21 8/18/21
55 55 55 55 55 55 55 56 66 66 66 66 67 68 67	T25055083 T25055084 T25055086 T25055087 T25055088 T25055089 T25055090 T25055091 T25055092 T25055093 T25055094 T25055095 T25055097 T25055098 T25055099 T25055099 T25055100 T25055101 T25055102 T25055103	T31 T32 T33 T34 T35 T36 T37 T38 T39 T40 T41 T42 T43 T44 T45 T46 T47 T48 T48 T49 T50	8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21 8/18/21
71 72 73 74 75	T25055104 T25055105 T25055106 T25055107 T25055108	T52 T53 T54 T55 T56	8/18/21 8/18/21 8/18/21 8/18/21 8/18/21



TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

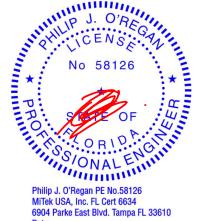
(size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=33(LC 8)

Max Uplift 3=-6(LC 1), 2=-82(LC 8), 4=-19(LC 1) Max Grav 3=10(LC 8), 2=179(LC 1), 4=19(LC 8)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3, 2, 4.

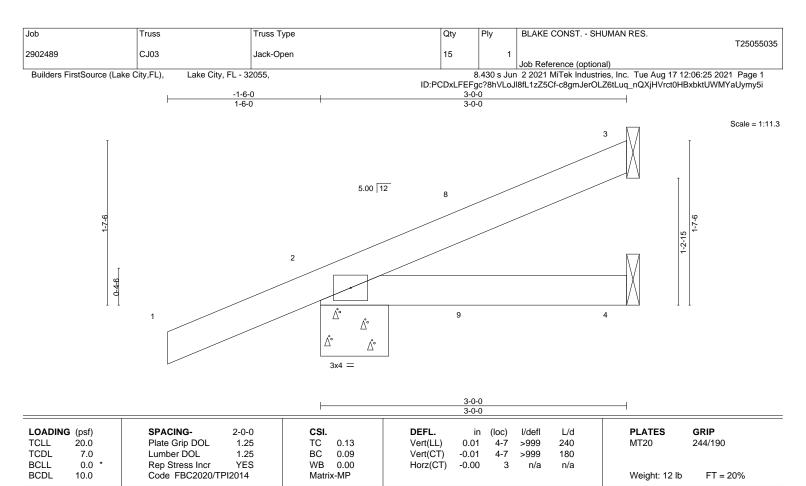


Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

August 18,2021





LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=61(LC 12)

Max Uplift 3=-32(LC 12), 2=-87(LC 8), 4=-16(LC 9) Max Grav 3=59(LC 1), 2=210(LC 1), 4=49(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3, 2, 4.



August 18,2021



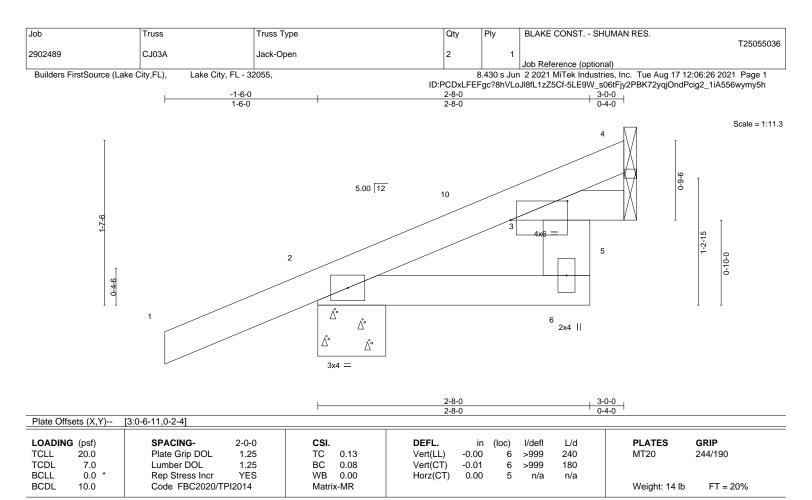


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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





BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No 2 2x4 SP No.2 \*Except\* BOT CHORD

3-6: 2x6 SP No.2

(size) 4=Mechanical, 2=0-8-0, 5=Mechanical

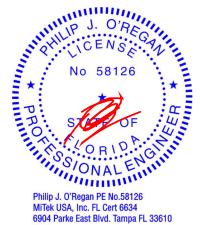
Max Horz 2=61(LC 12)

Max Uplift 4=-19(LC 12), 2=-62(LC 8), 5=-9(LC 12) Max Grav 4=49(LC 1), 2=211(LC 1), 5=45(LC 3)

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

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 4, 2, 5.



Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

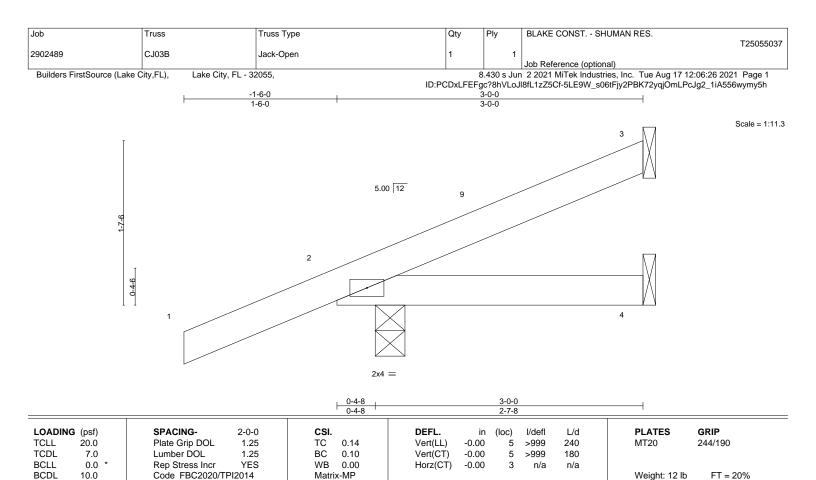
August 18,2021

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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

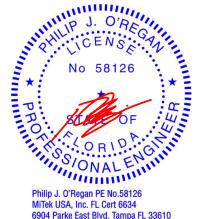
Max Horz 2=61(LC 12)

Max Uplift 3=-27(LC 12), 2=-76(LC 8)

Max Grav 3=40(LC 1), 2=256(LC 1), 4=38(LC 3)

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

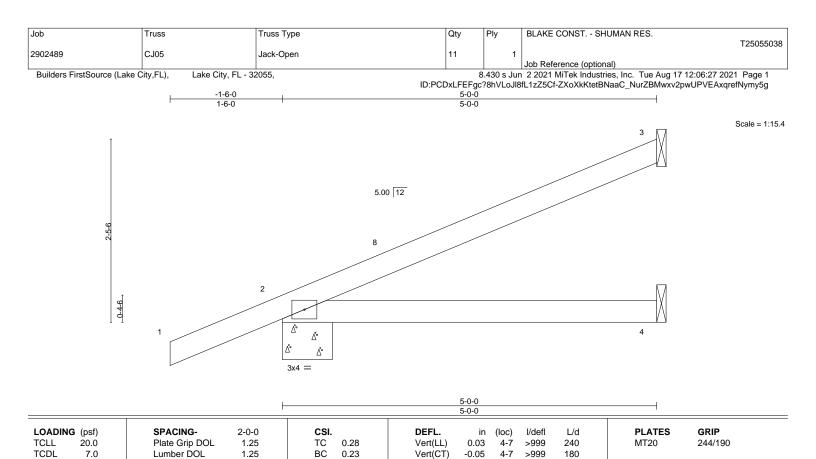
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3, 2.



6904 Parke East Blvd. Tampa FL 33610

August 18,2021





LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.00

3

n/a

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

Weight: 18 lb

FT = 20%

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

n/a

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Rep Stress Incr

Code FBC2020/TPI2014

Max Horz 2=89(LC 12)

Max Uplift 3=-61(LC 12), 2=-71(LC 12)

Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MP

0.00

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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) 3, 2.



6904 Parke East Blvd. Tampa FL 33610

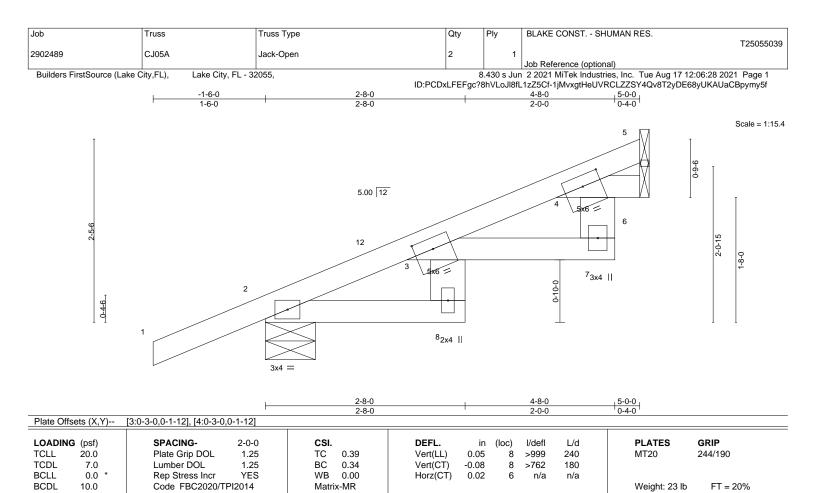
August 18,2021

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

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

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





BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* BOT CHORD

3-8,4-7: 2x6 SP No.2

(size) 5=Mechanical, 2=0-8-0, 6=Mechanical

Max Horz 2=89(LC 12)

Max Uplift 5=-33(LC 12), 2=-70(LC 12), 6=-24(LC 12)

Max Grav 5=90(LC 1), 2=279(LC 1), 6=86(LC 1)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 5, 2, 6.



Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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

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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055040 CJ05B 2902489 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:29 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-VwwH90uvOodlpV8m0GcfRL0FidcQtPjTO8KljFymy5e Scale = 1:15.6 5.00 12 0-4-6 3 0-4-8 5-0-0 4-7-8 SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP 20.0 Plate Grip DOL 1.25 TC 0.26 Vert(LL) -0.02 3-7 >999 240 MT20 244/190 7.0 >999 180

LOADING (psf) **TCLL** TCDL Lumber DOL 1.25 вс 0.20 Vert(CT) -0.04 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 16 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical

Max Horz 1=71(LC 12)

Max Uplift 1=-38(LC 12), 2=-63(LC 12)

Max Grav 1=204(LC 1), 2=110(LC 1), 3=82(LC 3)

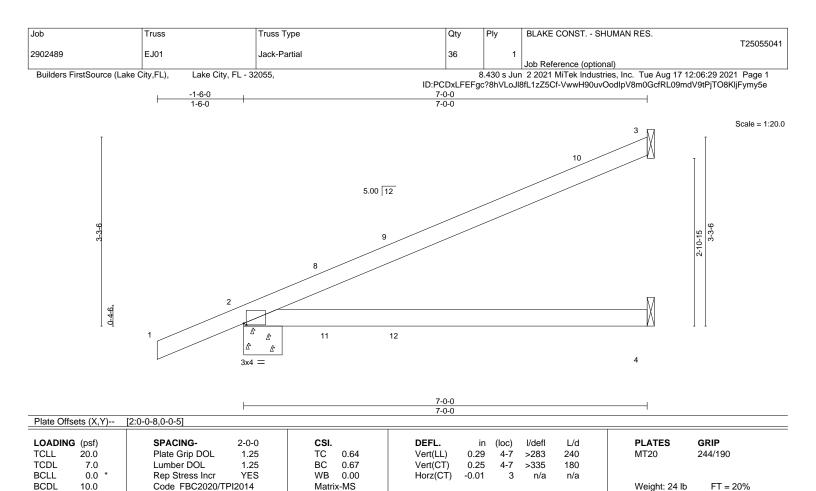
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, 2.



6904 Parke East Blvd. Tampa FL 33610

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LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=114(LC 12)

Max Uplift 3=-78(LC 12), 2=-124(LC 8), 4=-40(LC 9) Max Grav 3=163(LC 1), 2=346(LC 1), 4=125(LC 3)

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

### NOTES-

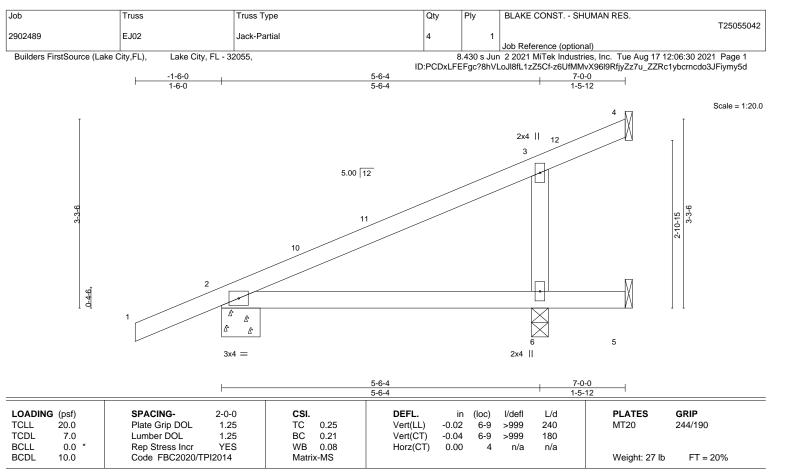
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3, 4 except (jt=lb) 2=124.



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LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings Mechanical except (jt=length) 2=0-8-0, 6=0-3-8.

Max Horz 2=114(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 5 except 6=-144(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=260(LC 1), 6=425(LC 1)

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

**WEBS** 3-6=-279/256

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) 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.
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5 except (jt=lb) 6=144.



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August 18,2021

Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055043 EJ03 **JACK** 3 2902489 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:31 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-RI22ahw9wPt03pH87he7Xm5U7QD0LJDmsSpso8ymy5c 7-0-0 Scale = 1:19.9 5.00 12 0-4-6 3 3x4 = 7-0-0 7-0-0 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.65 Vert(LL) 0.11 3-6 >752 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.51 Vert(CT) -0.23 >359 180

LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

BRACING-

Horz(CT)

0.01

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

Weight: 22 lb

FT = 20%

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

n/a

n/a

REACTIONS. (size) 1=0-8-0, 2=Mechanical, 3=Mechanical

Rep Stress Incr

Max Horz 1=95(LC 12)

Max Uplift 1=-49(LC 12), 2=-80(LC 12)

Max Grav 1=257(LC 1), 2=168(LC 1), 3=126(LC 3)

Code FBC2020/TPI2014

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

WB

Matrix-MS

0.00

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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, 2.



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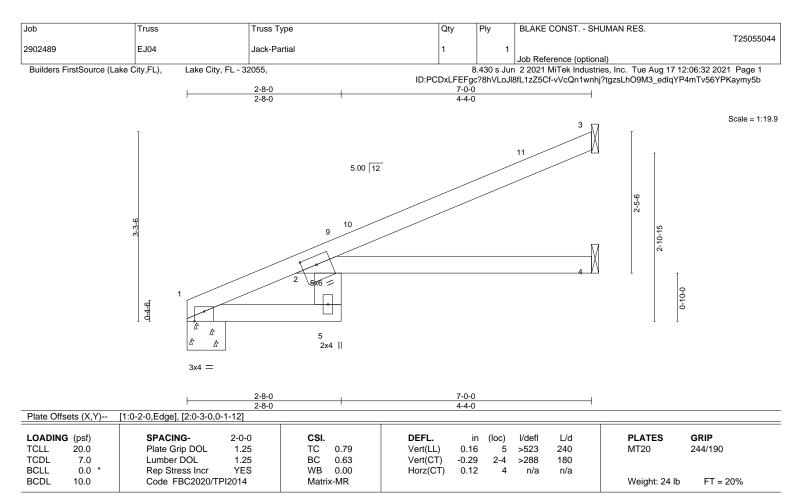
August 18,2021

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

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

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





BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2 \*Except\* BOT CHORD

2-5: 2x6 SP No.2

REACTIONS. (size) 1=0-8-0, 3=Mechanical, 4=Mechanical

Max Horz 1=95(LC 12)

Max Uplift 1=-48(LC 12), 3=-68(LC 12), 4=-12(LC 12) Max Grav 1=260(LC 1), 3=157(LC 1), 4=120(LC 3)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, 3, 4.



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

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

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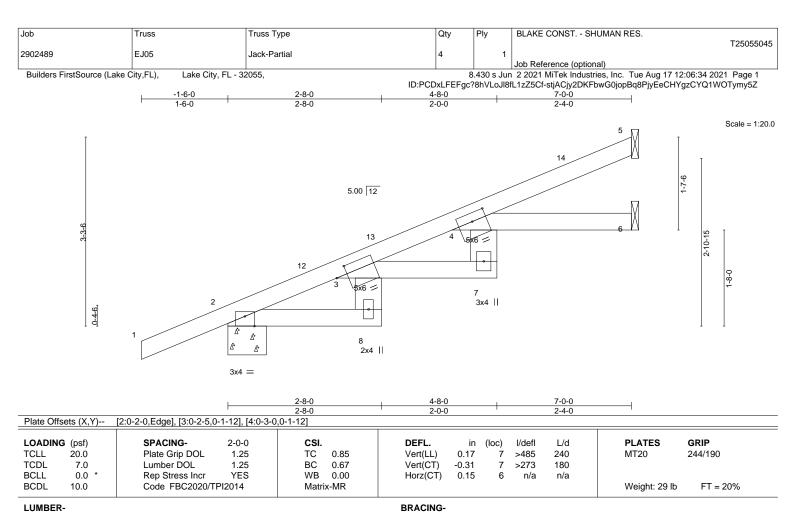
August 18,2021

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

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

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





**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 \*Except\* **BOT CHORD** 

3-8,4-7: 2x6 SP No.2

REACTIONS. (size) 5=Mechanical, 2=0-8-0, 6=Mechanical

Max Horz 2=114(LC 12)

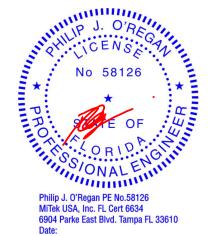
Max Uplift 5=-51(LC 12), 2=-83(LC 12), 6=-23(LC 12)

Max Grav 5=140(LC 1), 2=351(LC 1), 6=113(LC 3)

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

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 5, 2, 6.

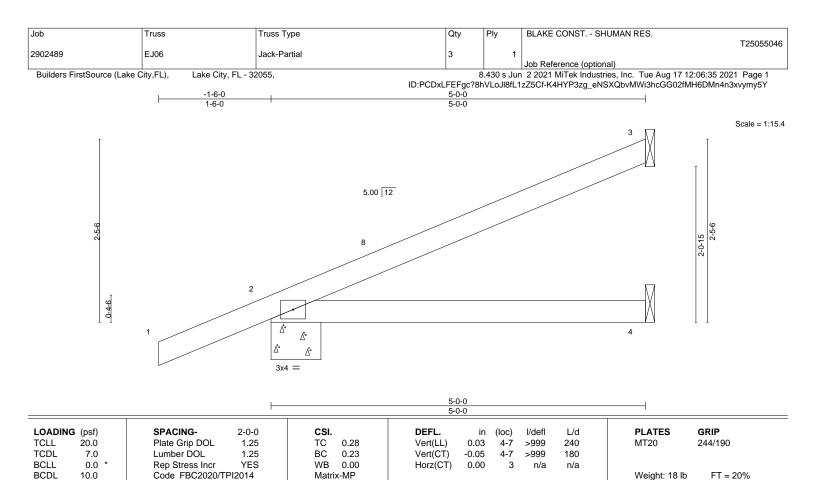


August 18,2021

Structural wood sheathing directly applied or 3-9-12 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 4-6.



LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-8-0, 4=Mechanical

Max Horz 2=89(LC 12)

Max Uplift 3=-61(LC 12), 2=-71(LC 12)

Max Grav 3=112(LC 1), 2=276(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-11-4 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3, 2.



August 18,2021



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055047 EJ07 Jack-Open 2902489 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:37 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-GSPJql\_wWFdAnkllUxlXm1LfMrN5l0ieEOGA?oymy5W 3-0-0 Scale = 1:10.9 5.00 12 1-2-15 0-4-6 Å٩ Å٩ Δ° Δ° 2x4 = 3-0-0 3-0-0

LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defl I/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.09 Vert(LL) -0.00 3-6 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.09 Vert(CT) -0.01 3-6 >999 180 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MP Weight: 9 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

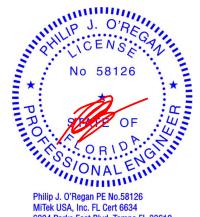
(size) 1=0-8-0, 2=Mechanical, 3=Mechanical

Max Horz 1=42(LC 12)

Max Uplift 1=-20(LC 12), 2=-36(LC 12), 3=-3(LC 12) Max Grav 1=109(LC 1), 2=69(LC 1), 3=52(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, 2, 3.



6904 Parke East Blvd. Tampa FL 33610

August 18,2021



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055048 EJ08 2902489 Jack-Open Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:38 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-kfzh25?YHZl1OuKU1fGmJFumfFZaUTaoT2?kXEymy5V Scale = 1:10.9 3 2x4 || (3)- 0.131x3.5 5.00 12 TOENAILS 0-4-6

> Å٩ Δ° 3x8 = 3-0-0

2x4

Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

Plate Offsets	(X,Y)	[1:0-3-3,0-1-1]

LOADIN	G (psf)	SPACING- 2-0-	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.2	25	TC	0.38	Vert(LL)	-0.02	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.2	25	BC	0.71	Vert(CT)	-0.03	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr N	0	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	1	Matri	x-MP						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No 3 WFBS

REACTIONS. (size) 1=0-8-0, 5=Mechanical

Max Horz 1=42(LC 8)

Max Uplift 1=-199(LC 8), 5=-146(LC 8) Max Grav 1=932(LC 2), 5=582(LC 2)

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

## NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 1=199, 5=146,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1331 lb down and 300 lb up at 1-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

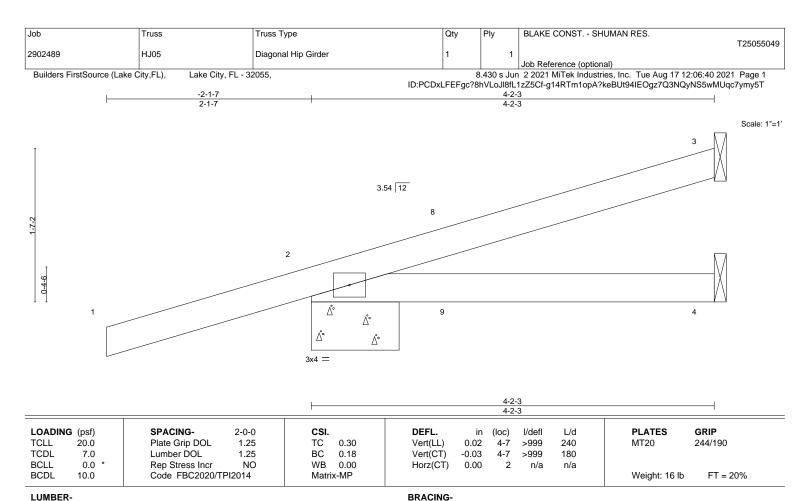
Vert: 1-2=-54, 2-3=-14, 1-4=-20 Concentrated Loads (lb)

Vert: 7=-1220(B)

Philip J. O'Regan PE No.58126

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021



BOT CHORD

LUMBER-

REACTIONS.

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

(size) 3=Mechanical, 2=0-10-15, 4=Mechanical

Max Horz 2=70(LC 4)

Max Uplift 3=-28(LC 8), 2=-104(LC 4)

Max Grav 3=83(LC 1), 2=296(LC 1), 4=70(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 3 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, and 63 lb down and 63 lb up at 1-6-1 on top chord, and 24 lb down and 37 lb up at 1-6-1, and 24 lb down and 37 lb up at 1-6-1 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-3=-54, 4-5=-20



Structural wood sheathing directly applied or 4-2-3 oc purlins.

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

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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

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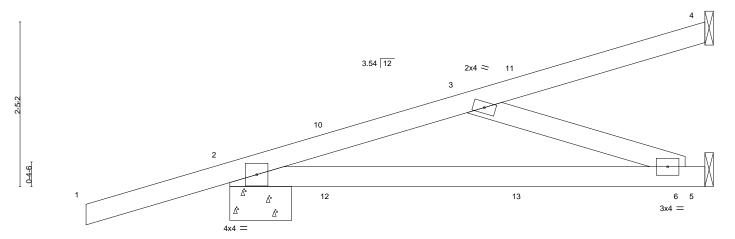
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055050 HJ08 2 2902489 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:41 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-8Depg61RaU7bFL23jnpTxtWGXSeChp7E90EO8Zymy5S 3-9-1 3-9-1

Scale = 1:17.0



LOADIN	\(\(\frac{1}{2}\)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL TCDL	20.0 7.0	Plate Grip DOL 1.25 Lumber DOL 1.25	TC 0.40 BC 0.46	Vert(LL) -0.06 6-9 >999 240 Vert(CT) -0.13 6-9 >648 180	MT20 244/190
BCLL	0.0 *	Rep Stress Incr NO	WB 0.10	Horz(CT) 0.00 5 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 30 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

7-0-2

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

(size) 4=Mechanical, 2=0-10-15, 5=Mechanical

Max Horz 2=99(LC 4)

Max Uplift 4=-49(LC 26), 2=-134(LC 4), 5=-63(LC 5) Max Grav 4=85(LC 19), 2=392(LC 1), 5=181(LC 3)

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

TOP CHORD 2-3=-376/101 **BOT CHORD** 2-6=-131/356 WFBS 3-6=-376/138

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 4, 5 except (jt=lb) 2 = 134
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, 63 lb down and 63 lb up at 1-6-1, and 21 lb down and 34 lb up at 4-4-0, and 21 lb down and 34 lb up at 4-4-0 on top chord, and 47 lb down and 37 lb up at 1-6-1, 47 lb down and 37 lb up at 1-6-1, and 19 lb down and 24 lb up at 4-4-0, and 19 lb down and 24 lb up at 4-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 5-7=-20 Concentrated Loads (lb) Vert: 13=-7(F=-4, B=-4)



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

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

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-5cma5o3h55OJVfCSqCsx0lbbKGJ39eVXdKjVDRymy5Q 9-10-1 4-9-0 4-9-0

Scale = 1:21.8 13 3.54 12 3x4 = 3 0-4-6 ۸٩ 15 16 17 6 7 3x4 = 2x4 3x4 =

	-	4-9-0	+	9-9-5 5-0-5				
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25		<b>:FL.</b> in (loc rt(LL) -0.05 6-7	<i>'</i>	<b>PLATES GRIP</b> MT20 244/190			
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr NO	BC 0.56 Ve	rt(CT) -0.10 6-7		2.11.00			
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	,		Weight: 42 lb FT = 20%			

LUMBER-

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

BRACING-

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

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

REACTIONS. (size) 4=Mechanical, 2=0-10-15, 5=Mechanical

Max Horz 2=124(LC 4)

Max Uplift 4=-71(LC 4), 2=-182(LC 4), 5=-114(LC 4) Max Grav 4=141(LC 1), 2=518(LC 1), 5=295(LC 1)

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

TOP CHORD 2-3=-853/275 **BOT CHORD** 2-7=-318/795 6-7=-318/795

WFBS 3-7=-35/273, 3-6=-832/333

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 4 except (jt=lb) 2=182, 5=114,
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 63 lb up at 1-6-1, 63 lb down and 63 lb up at 1-6-1, 14 lb down and 26 lb up at 4-4-0, 21 lb down and 34 lb up at 4-4-0, and 38 lb down and 73 lb up at 7-1-15, and 42 lb down and 72 lb up at 7-1-15 on top chord, and 47 lb down and 37 lb up at 1-6-1, 47 lb down and 37 lb up at 1-6-1, 45 lb down and 10 lb up at 4-4-0, 19 lb down and 24 lb up at 4-4-0, and 36 lb down at 7-1-15, and 40 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 5-8=-20 Concentrated Loads (lb)

Vert: 13=-69(F=-36, B=-33) 16=6(F=-4, B=10) 17=-53(F=-30, B=-23)



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055052 HJ10A 2902489 Diagonal Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:44 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ZoKyl84JsPWA6pneOvNAYW8kBggTuBRgrzS2luymy5P 3-8-8 3-8-8 9-10-1 3-4-6 Scale = 1:20.5 3x4 || 3.54 12 15 1-7-2 14 7 4x4 || 4x6 = 1-8-0 2x4 8 3x6 = 0-4-6 4x8 9 3x4 II 3x6 = 3-8-8 6-5-11 9-10-1 3-8-8 3-4-6 Plate Offsets (X,Y)--[2:0-2-11,0-2-0], [3:0-6-12,0-2-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.63 Vert(LL) -0.15 8 >799 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.27 8 >441 180

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

0.09

6

n/a

except end verticals.

n/a

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

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

LUMBER-

**BCLL** 

BCDL

TOP CHORD 2x6 SP M 26

0.0

10.0

**BOT CHORD** 2x6 SP No.2 \*Except\*

1-9: 2x4 SP No.2, 2-8: 2x6 SP M 26

WFBS 2x4 SP No.3

REACTIONS.

(size) 1=0-10-15, 6=Mechanical

Rep Stress Incr

Code FBC2020/TPI2014

Max Horz 1=90(LC 4)

Max Uplift 1=-77(LC 4), 6=-146(LC 4) Max Grav 1=423(LC 1), 6=481(LC 1)

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

TOP CHORD 3-4=-285/69. 4-7=-281/95 BOT CHORD 3-8=-102/328, 3-7=-101/307

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

WB

Matrix-MR

0.00

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 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 except (jt=lb) 6 = 146
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 57 lb down and 57 lb up at 1-6-1, 57 lb down and 57 lb up at 1-6-1, 23 lb down and 21 lb up at 4-4-0, 23 lb down and 21 lb up at 4-4-0, and 46 lb down and 43 lb up at 7-1-15, and 46 lb down and 43 lb up at 7-1-15 on top chord, and 24 lb down and 37 lb up at 1-6-1, 24 lb down and 37 lb up at 1-6-1, 17 lb down and 19 lb up at 4-4-0, 17 lb down and 19 lb up at 4-4-0, and 58 lb down and 42 lb up at 7-1-15, and 58 lb down and 42 lb up at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 2-12=-54, 2-3=-54, 3-4=-54, 4-5=-54, 1-9=-20, 2-8=-20, 3-6=-20

Concentrated Loads (lb)

Vert: 14=-6(F=-3, B=-3) 15=-43(F=-22, B=-22) 17=-34(F=-17, B=-17) 18=-116(F=-58, B=-58)



Weight: 48 lb

FT = 20%

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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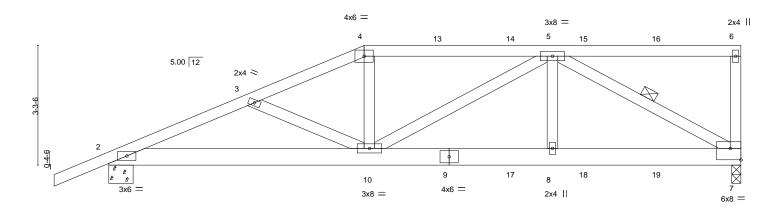
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055053 T01 2902489 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:45 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-1?uKWU4xdje1kzMqyduP5jguy4?wdX2q4dCbHKymy5O 7-0-0 12-2-0 . 17-4-0

3-0-1

Scale = 1:31.6



<del></del>	-	12- 5-2	_		17-4-0 5-2-0	<del></del>					
Plate Offsets (X,Y) [7:Edge,0-3-12]											
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.25 1.25 NO	BC 0	.69 .54 .49	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.08 -0.13 0.04	(loc) 8-10 8-10 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

Matrix-MS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 7-7-9 oc bracing.

Structural wood sheathing directly applied or 3-4-3 oc purlins,

LUMBER-TOP CHORD

10.0

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

REACTIONS.

(size) 7=0-3-0, 2=0-8-0 Max Horz 2=119(LC 23)

Max Uplift 7=-570(LC 4), 2=-435(LC 8)

Max Grav 7=1527(LC 1), 2=1187(LC 1)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-2434/953 3-4=-2247/898 4-5=-2078/858 6-7=-314/152

BOT CHORD 2-10=-940/2227, 8-10=-741/1836, 7-8=-741/1836

WFBS 4-10=-151/533, 5-10=-136/279, 5-8=-74/437, 5-7=-2071/840

## NOTES-

BCDL

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=570, 2=435.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, and 114 lb down and 84 lb up at 15-0-12, and 137 lb down and 83 lb up at 17-2-4 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, and 86 lb down and 20 lb up at 15-0-12, and 104 lb down and 11 lb up at 17-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-6=-54, 2-7=-20



Weight: 102 lb

FT = 20%

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST SHUMAN RES.
0000400	T04	11 KUP 00 1			T25055053
2902489	T01	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:45 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-1?uKWU4xdje1kzMqyduP5jguy4?wdX2q4dCbHKymy5O

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-109(B) 6=-137(B) 7=-78(B) 9=-65(B) 10=-332(B) 13=-109(B) 14=-109(B) 15=-109(B) 16=-114(B) 17=-65(B) 18=-65(B) 19=-69(B)



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055054 T02 2902489 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:46 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-VBSijq5ZO0muM7x1VKPeexD8fTHzM?UzJHx9pmymy5N 4-10-1 9-0-0 17-4-0

4-1-15

Scale = 1:31.6

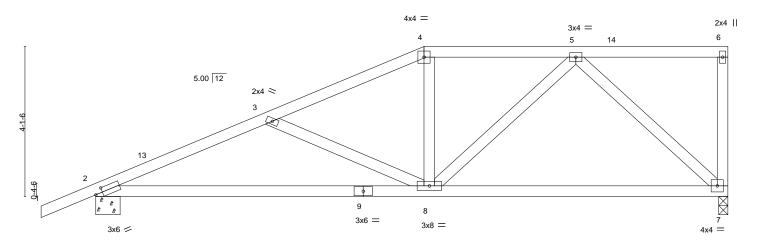


Plate Off	sets (X,Y)	[2:0-2-6,0-1-8]										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.11	8-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.74	Vert(CT)	-0.23	8-12	>893	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matr	ix-MS						Weight: 88 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-8-0, 7=0-3-0

Max Horz 2=148(LC 12) Max Uplift 2=-184(LC 12), 7=-158(LC 8)

Max Grav 2=720(LC 1), 7=632(LC 1)

4-10-1

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

TOP CHORD 2-3=-1177/297, 3-4=-858/190, 4-5=-749/197

**BOT CHORD** 2-8=-360/1068, 7-8=-150/514

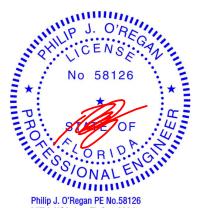
WFBS 3-8=-354/177, 5-8=-75/348, 5-7=-687/206

## NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-1-15, Interior(1) 13-1-15 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9-0-0 9-0-0

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=184, 7=158.



8-4-0

Structural wood sheathing directly applied or 5-2-7 oc purlins,

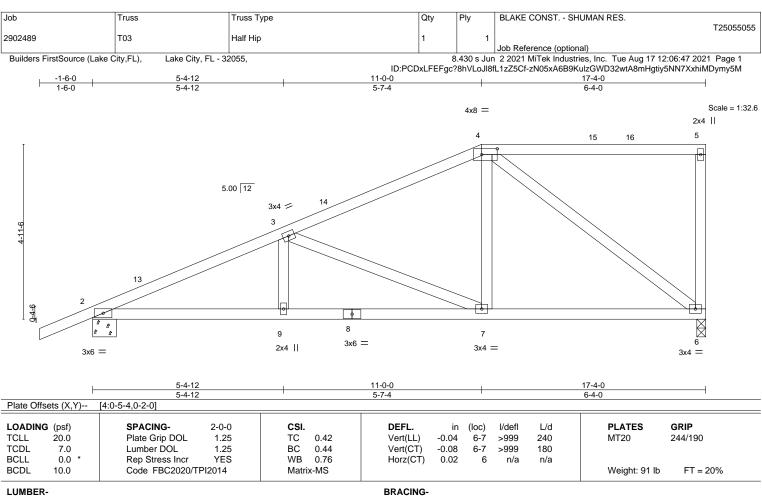
Rigid ceiling directly applied or 9-9-7 oc bracing.

except end verticals.

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BOT CHORD

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-8-0, 6=0-3-0 Max Horz 2=177(LC 12)

Max Uplift 2=-180(LC 12), 6=-152(LC 8) Max Grav 2=720(LC 1), 6=632(LC 1)

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

TOP CHORD 2-3=-1210/268 3-4=-672/149

**BOT CHORD** 2-9=-359/1078, 7-9=-359/1078, 6-7=-168/575 WFBS 3-7=-553/207. 4-7=-36/411. 4-6=-692/206

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=180, 6=152.



Structural wood sheathing directly applied or 5-3-2 oc purlins,

Rigid ceiling directly applied or 9-10-1 oc bracing.

except end verticals.

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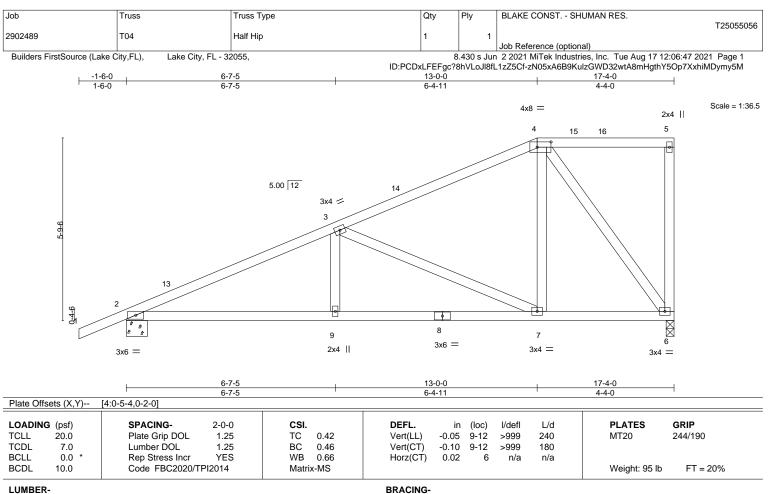


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BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-8-0, 6=0-3-0 Max Horz 2=205(LC 12)

Max Uplift 2=-173(LC 12), 6=-171(LC 12) Max Grav 2=720(LC 1), 6=632(LC 1)

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

TOP CHORD 2-3=-1150/235 3-4=-486/94

**BOT CHORD** 2-9=-348/1014, 7-9=-348/1014, 6-7=-121/390 WFBS 3-9=0/281, 3-7=-691/250, 4-7=-61/429, 4-6=-633/197

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2E) 13-0-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 6=171,



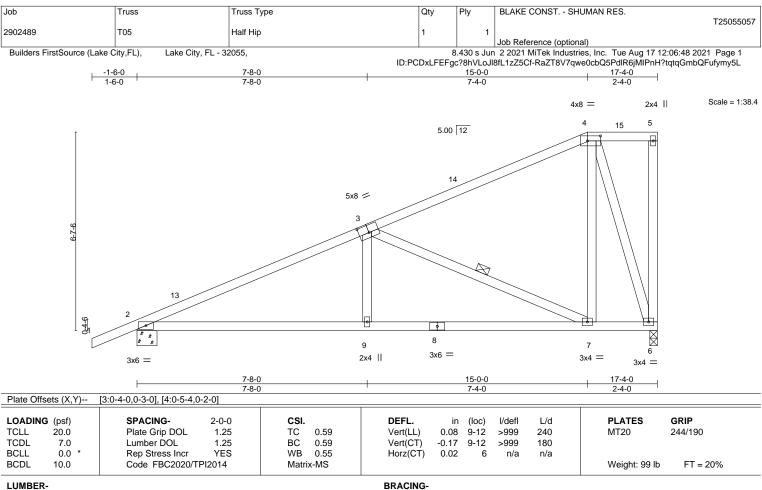
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Structural wood sheathing directly applied or 5-2-8 oc purlins,

Rigid ceiling directly applied or 9-10-10 oc bracing

except end verticals.



BOT CHORD

**WEBS** 

LUMBER-

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

REACTIONS. (size) 6=0-3-0, 2=0-8-0

Max Horz 2=234(LC 12)

Max Uplift 6=-195(LC 12), 2=-165(LC 12) Max Grav 6=632(LC 1), 2=720(LC 1)

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

TOP CHORD 2-3=-1092/199 3-4=-310/33 **BOT CHORD** 2-9=-335/953 7-9=-335/952

WFBS 3-9=0/330, 3-7=-814/292, 4-7=-71/481, 4-6=-657/208

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=195, 2=165,



Structural wood sheathing directly applied or 5-0-15 oc purlins,

Rigid ceiling directly applied or 9-11-9 oc bracing.

except end verticals.

1 Row at midpt

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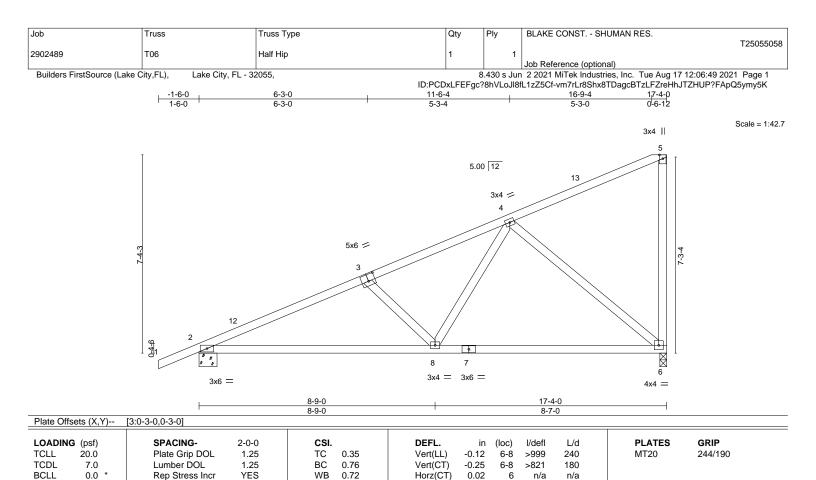


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Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.02

6

n/a

except end verticals.

n/a

Rigid ceiling directly applied or 9-8-7 oc bracing.

Structural wood sheathing directly applied or 5-1-3 oc purlins,

LUMBER-

**BCLL** 

BCDL

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

10.0

2x4 SP No.3 WFBS

REACTIONS. (size) 6=0-3-0, 2=0-8-0 Max Horz 2=265(LC 12)

Max Uplift 6=-223(LC 12), 2=-153(LC 12)

Max Grav 6=632(LC 1), 2=720(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1102/185 3-4=-882/139

**BOT CHORD** 2-8=-362/983, 6-8=-197/516 WFBS 3-8=-319/176, 4-8=-88/545, 4-6=-666/257

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

Matrix-MS

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=223, 2=153.



Weight: 90 lb

FT = 20%

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August 18,2021



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Job Truss Truss Type Qty Plv BLAKE CONST. - SHUMAN RES. T25055059 T07 Half Hip Girder 2902489 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:51 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-s9FbmX9iDZOASup\_lt?pK\_wuUUzB1EYiSZfwV\_ymy5l 4-8-0 7-0-0 10-0-8 15-1-0 17-4-0 13-1-0

3-0-8

13-1-0

except end verticals.

2-0-0

15-1-0

Structural wood sheathing directly applied or 5-7-12 oc purlins,

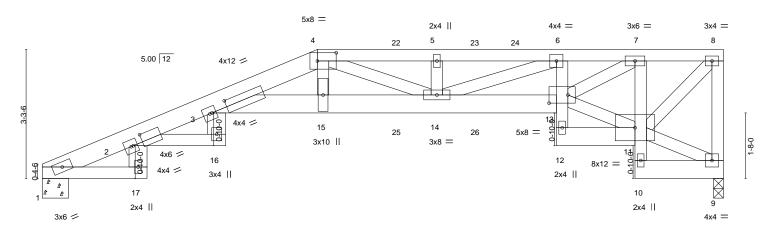
Rigid ceiling directly applied or 10-0-0 oc bracing.

3-0-8

Scale = 1:29.3

2-3-0

17-/-0



	2-0-0	7-0-0	1 -	J-U	- 11	J-U-U		10-1-0	,	- 1	13-1-0	17-4	0
	2-8-0	2-0-0	2	1-0	3	-0-8		3-0-8		1	2-0-0	2-3-0	)
Plate (	Offsets (X,Y)	[2:0-3-1,0-2-6], [3:0-4-14,	0-2-0], [4:0-5-	12,0-2-8], [1	3:0-5-12,0-2-	3]							
LOAD	ING (psf)	SPACING-	2-0-0	CSI		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.32	16	>652	240		MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.87	Vert(CT)	-0.59	16	>352	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.39	9	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Mat	rix-MS	, ,						Weight: 213 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

10-0-8

LUMBER-

1-6-0

2-8-0

2-0-0

2-4-0

7-0-0

TOP CHORD 2x6 SP M 26 \*Except\* 4-8: 2x4 SP No.2

**BOT CHORD** 2x6 SP No.2 \*Except\*

2-8-0

1-17,2-16: 2x4 SP No.2, 3-13: 2x6 SP M 26, 6-12,7-10: 2x4 SP No.3

**WEBS** 2x4 SP No.3

REACTIONS. (size) 1=0-8-0, 9=0-3-0

Max Horz 1=99(LC 27)

Max Uplift 1=-340(LC 8), 9=-475(LC 4) Max Grav 1=1230(LC 1), 9=1599(LC 1)

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

TOP CHORD 2-21=-543/90, 2-3=-668/145, 3-4=-5602/1703, 4-5=-4760/1425, 5-6=-4760/1425,

6-7=-3785/1116, 7-8=-1201/355, 8-9=-1459/465

**4-8-0** 

BOT CHORD 3-16=-105/370, 3-15=-1658/5365, 14-15=-1718/5565, 13-14=-1204/4082, 6-13=-478/168,

11-12=-102/339, 7-11=-1660/521

**WEBS** 4-15=-512/1708, 4-14=-869/317, 5-14=-254/108, 6-14=-258/738, 11-13=-296/1010,

7-13=-854/2901, 8-11=-511/1729

# NOTES-

1) 2-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, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 2 rows staggered at 0-2-0 oc, Except member 14-4 2x4 - 1 row at 0-9-0 oc, member 5-14 2x4 - 1 row at 0-9-0 oc, member 14-6 2x4 - 1 row at 0-9-0 oc, member 11-13 2x4 - 1 row at 0-9-0 oc, member 13-7 2x4 - 1 row at 0-9-0 oc, member 9-11 2x4 - 1 row at 0-9-0 oc, member 11-8 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=340, 9=475.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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Job	Truss	Truss Type	Qty	Ply	BLAKE CONST SHUMAN RES.
0000400	707				T25055059
2902489	T07	Half Hip Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:51 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-s9FbmX9iDZOASup\_lt?pK\_wuUUzB1EYiSZfwV\_ymy5l

#### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 56 lb up at 7-0-0, 86 lb down and 56 lb up at 9-0-12, 86 lb down and 56 lb up at 11-0-12, 86 lb down and 56 lb up at 13-0-12, and 103 lb down and 72 lb up at 15-0-12, and 137 lb down and 83 lb up at 17-2-4 on top chord, and 545 lb down and 218 lb up at 7-0-0, 92 lb down and 43 lb up at 9-0-12, 92 lb down and 43 lb up at 11-0-12, 92 lb down and 43 lb up at 13-2-12, and 82 lb down and 32 lb up at 15-2-12, and 104 lb down and 11 lb up at 17-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

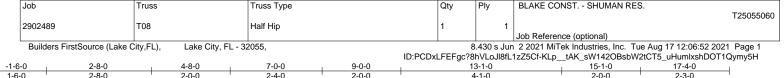
## LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

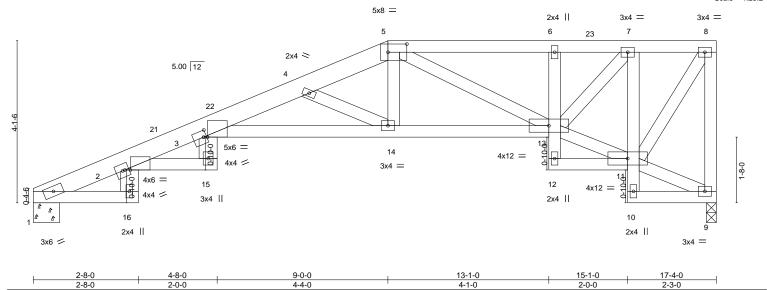
Vert: 2-20=-54, 2-3=-54, 3-4=-54, 4-8=-54, 1-17=-20, 2-16=-20, 3-13=-20, 11-12=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 4=-86(F) 9=-78(F) 6=-86(F) 7=-103(F) 15=-545(F) 13=-92(F) 11=-82(F) 8=-137(F) 22=-86(F) 23=-86(F) 25=-92(F) 26=-92(F)



Scale = 1:29.2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.58 Vert(LL) -0.32 15 >643 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 вс 0.90 -0.61 15 >341 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.29 Horz(CT) 0.38 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 106 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

Plate Offsets (X,Y)--

2x6 SP M 26 \*Except\* TOP CHORD 5-8: 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\*

2-16,3-15: 2x6 SP No.2, 6-12,7-10: 2x4 SP No.3

**WEBS** 2x4 SP No.3

REACTIONS. (size) 1=0-8-0, 9=0-3-0

Max Horz 1=128(LC 12) Max Uplift 1=-141(LC 12), 9=-157(LC 8)

Max Grav 1=642(LC 1), 9=626(LC 1)

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

TOP CHORD  $2-20 = -268/0, \ 2-3 = -259/0, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-4 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 3-2 = -2224/626, \ 4-5 = -1407/377, \ 5-6 = -914/251, \ 6-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7-7 = -879/239, \ 7$ 

[2:0-1-11,0-0-0], [3:0-1-3,0-0-0], [3:0-0-14,0-2-0], [5:0-5-12,0-2-8]

7-8=-356/97, 8-9=-595/175

BOT CHORD 3-14=-700/2266, 13-14=-364/1284, 7-11=-637/195

**WEBS** 5-14=-148/628, 5-13=-416/144, 11-13=-82/320, 7-13=-217/755, 8-11=-174/641, 11-13=-82/320, 7-13=-217/755, 8-11=-174/641, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-13=-82/320, 11-1

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-12, Interior(1) 13-2-12 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=141, 9=157.



Structural wood sheathing directly applied or 5-2-7 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-10-3 oc bracing: 3-14

9-9-13 oc bracing: 13-14.

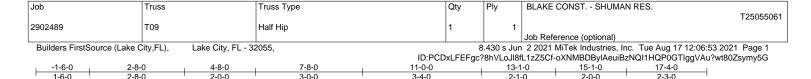
Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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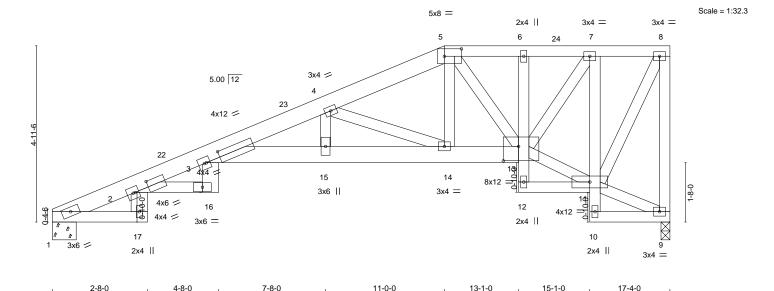


Plate Of	rsets (X,Y)	[2:0-4-13,0-2-0], [3:0-4-14	4,0-2-0], [5:0-5·	-12,0-2-8], [1	3:0-5-2,0-4-	·14]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.28	16	>725	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	ВС	0.74	Vert(CT)	-0.53	16	>388	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.33	9	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 123 lb	FT = 20%	

3-4-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-1-0

except end verticals.

6-0-0 oc bracing: 1-17.

2-0-0

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

LUMBER-TOP CHORD 2x6 SP M 26 \*Except\*

2-0-0

5-8: 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 \*Except\*

2-8-0

2-17,3-16: 2x6 SP No.2, 3-13: 2x6 SP M 26, 6-12,7-10: 2x4 SP No.3

**WEBS** 2x4 SP No.3

REACTIONS. (size) 1=0-8-0, 9=0-3-0

Max Horz 1=156(LC 12)

Max Uplift 1=-138(LC 12), 9=-152(LC 8) Max Grav 1=639(LC 1), 9=625(LC 1)

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

TOP CHORD 2-21=-267/0, 2-3=-304/0, 3-4=-2071/585, 4-5=-950/258, 5-6=-650/188, 6-7=-641/186,

7-8=-280/83, 8-9=-594/188

BOT CHORD 3-15=-647/1987, 14-15=-647/1987, 13-14=-257/847, 7-11=-622/209

**WEBS** 4-15=-94/417, 4-14=-1257/428, 5-14=-132/506, 5-13=-323/112, 11-13=-76/254,

7-13=-195/624, 8-11=-179/606

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-12, Interior(1) 15-2-12 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3-0-0

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=138, 9=152.



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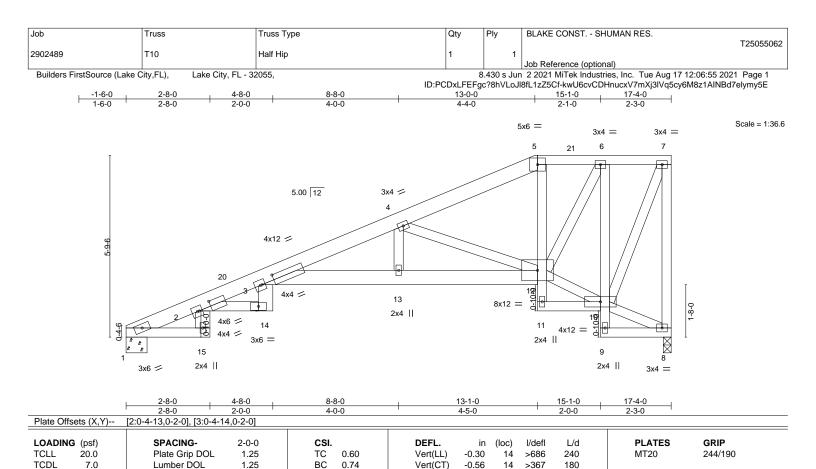
August 18,2021

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Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

0.35

8

n/a

except end verticals.

6-0-0 oc bracing: 1-15.

n/a

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

LUMBER-

**BCLL** 

BCDL

2x6 SP M 26 \*Except\* TOP CHORD 5-7: 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\*

2-15,3-14: 2x6 SP No.2, 3-12: 2x6 SP M 26, 5-11,6-9: 2x4 SP No.3

Code FBC2020/TPI2014

**WEBS** 2x4 SP No.3

0.0

10.0

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

Max Horz 1=185(LC 12)

Max Uplift 1=-126(LC 12), 8=-145(LC 12) Max Grav 1=639(LC 1), 8=625(LC 1)

Rep Stress Incr

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

2-19=-267/0, 2-3=-304/0, 3-4=-1749/452, 4-5=-613/152, 5-6=-502/161, 7-8=-594/202 TOP CHORD

YES

**BOT CHORD** 3-13=-538/1663, 12-13=-538/1663, 6-10=-598/216

WEBS 4-13=-72/421, 4-12=-1249/426, 6-12=-181/564, 7-10=-188/584

## NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-0 to 3-4-0, Interior(1) 3-4-0 to 13-1-0, Exterior(2E) 13-1-0 to 17-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.58

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=126, 8=145,



Weight: 125 lb

FT = 20%

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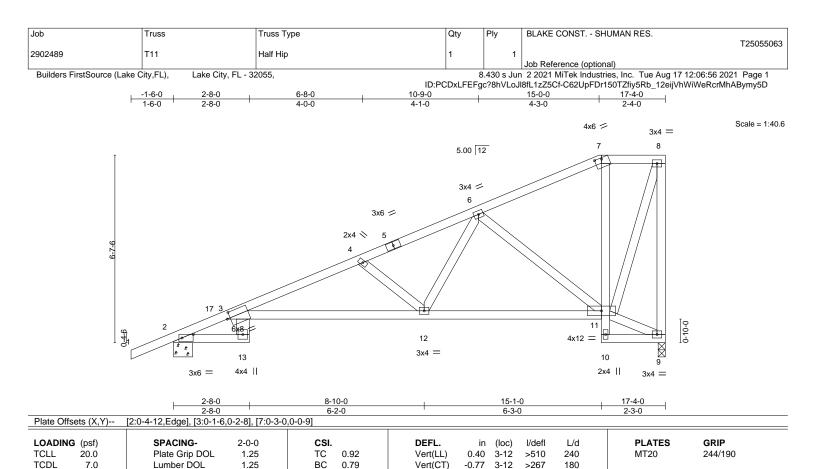
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Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

0.34

n/a

except end verticals.

6-0-0 oc bracing: 9-10.

n/a

Structural wood sheathing directly applied or 2-2-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

**BCLL** 

BCDL

LUMBER-2x4 SP No.2 \*Except\* TOP CHORD 1-5: 2x4 SP M 31

**BOT CHORD** 2x4 SP No.2 \*Except\*

3-13: 2x6 SP No.2, 3-11: 2x4 SP M 31, 7-10: 2x4 SP No.3

Code FBC2020/TPI2014

Rep Stress Incr

**WEBS** 2x4 SP No.3

0.0

10.0

REACTIONS. (size) 9=0-3-0, 2=0-8-0

Max Horz 2=234(LC 12)

Max Uplift 9=-181(LC 12), 2=-162(LC 12) Max Grav 9=633(LC 1), 2=724(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 3-15=-399/0, 3-4=-1484/357, 4-6=-1159/266, 6-7=-269/45, 8-9=-597/200

**BOT CHORD** 3-13=-84/269, 3-12=-501/1405, 11-12=-253/715

WEBS 4-12=-515/231, 6-12=-158/646, 6-11=-659/245, 8-11=-188/586

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-1-0, Exterior(2E) 15-1-0 to 17-2-4 zone:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.43

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=181, 2=162.



Weight: 105 lb

FT = 20%

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055064 T12 2902489 Roof Special Job Reference (optional)

16-10-0

2-11-10

13-10-6

4-3-3

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

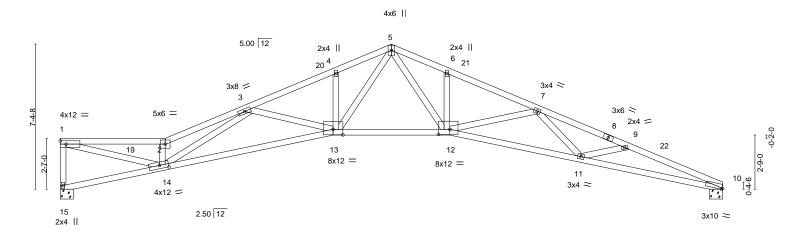
8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:57 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-glct1aEToP8KApH8f86DaFAu7v4dRrZbrV6Eidymy5C 19-9-10 24-2-15 28-8-4 2-11-10 4-5-5 4-11-12

Structural wood sheathing directly applied or 1-10-10 oc purlins,

Rigid ceiling directly applied or 8-6-11 oc bracing.

except end verticals.

Scale = 1:58.6



	5-4-0	13-10-0	19-9-10	20-5-9	33-8-0	1
	5-4-0	8-6-6	5-11-3	6-8-0	7-2-7	٦
Plate Offs	ets (X,Y) [10:0-0-8,Edg	ge], [12:0-7-0,0-3-0], [13:0-6-0,0-3-5], [14:0	)-5-9,0-2-0]			

LOADIN	VI /	SPACING-	2-0-0	CSI.		DEFL.	in (lo	-,	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC TC	0.87	Vert(LL)	-0.50 11-	12 >799	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-1.00 13-	14 >404	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.50	10 n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS					Weight: 170 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP M 31 \*Except\* 12-13: 2x4 SP No.2

**WEBS** 2x4 SP No.3 \*Except\*

1-14: 2x4 SP No.2

REACTIONS. (size) 15=0-8-0, 10=0-8-0

Max Horz 15=-148(LC 13) Max Uplift 15=-264(LC 12), 10=-261(LC 13)

Max Grav 15=1240(LC 1), 10=1240(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-15=-1191/274, 1-2=-3920/780, 2-3=-4492/935, 3-4=-3605/676, 4-5=-3588/735,

5-6=-3591/734, 6-7=-3612/682, 7-9=-4371/817, 9-10=-4561/934

BOT CHORD 13-14=-817/3914, 12-13=-335/2404, 11-12=-676/3989, 10-11=-830/4220

1-14=-788/3998, 2-14=-1928/469, 3-14=-79/487, 3-13=-584/255, 5-13=-388/1560,

5-12=-360/1565, 7-12=-656/273, 7-11=-32/338

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 15, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=264, 10=261.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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

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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055065 T13 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:58 2021 Page 1

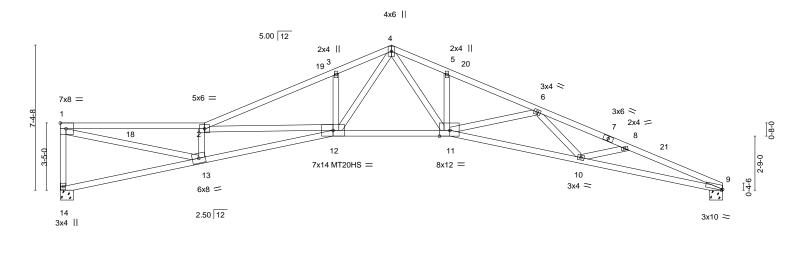
Structural wood sheathing directly applied or 1-10-10 oc purlins,

Rigid ceiling directly applied or 8-6-4 oc bracing.

except end verticals.

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-9VAFEwF5ZiHBozsKCsdS7Tj3uJPkAlnk39rnF4ymy5B 13-10-6 16-10-0 19-9-10 24-2-15 28-8-4 33-8-0 6-6-6 2-11-10 2-11-10 4-5-5 4-11-12

Scale = 1:58.6



	7-4-0	13-10-6	19-9-10	26-5-9	33-8-0
	7-4-0	6-6-6	5-11-3	6-8-0	7-2-7
Plate Offs	ets (X,Y) [9:0-0-8,Edge], [11:0-6	-5,Edge]			

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.87	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.48 10-11 >830 240	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.62	Vert(CT) -0.92 10-11 >438 180	MT20HS 187/143
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.90 Matrix-MS	Horz(CT) 0.47 9 n/a n/a	Weight: 170 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP M 31 \*Except\*

4-7.7-9: 2x4 SP No.2

2x4 SP M 31 \*Except\*

BOT CHORD

11-12: 2x4 SP No.2 **WEBS** 2x4 SP No.3 \*Except\*

1-13: 2x4 SP No.2

REACTIONS. (size) 14=0-8-0, 9=0-8-0

Max Horz 14=-164(LC 13)

Max Uplift 14=-267(LC 12), 9=-259(LC 13) Max Grav 14=1240(LC 1), 9=1240(LC 1)

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

1-14=-1173/283, 1-2=-3947/781, 2-3=-3647/667, 3-4=-3646/757, 4-5=-3595/725, TOP CHORD

5-6=-3614/673, 6-8=-4370/811, 8-9=-4561/929

**BOT CHORD** 12-13=-837/4189, 11-12=-324/2399, 10-11=-668/3990, 9-10=-825/4220

**WEBS** 1-13=-788/4007, 2-13=-1695/415, 2-12=-841/259, 3-12=-327/198, 4-12=-425/1632,

4-11=-358/1578, 6-11=-655/273, 6-10=-32/336

## NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=267. 9=259.



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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055066 T14 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:06:59 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-dhkdSGFjK0P2Q6QXmZ8hfgGEejkNvlbulpbLnWymy5A

19-9-10

2-11-10

24-2-15

26-5-9

6-8-0

except end verticals.

1 Row at midpt

28-8-4

16-10-0

2-11-10

13-10-6

4-6-6

13-10-6

4-6-6

Scale = 1:58.6

4-11-12

33-8-0

Structural wood sheathing directly applied or 1-10-10 oc purlins,

2-15

Rigid ceiling directly applied or 8-7-7 oc bracing.

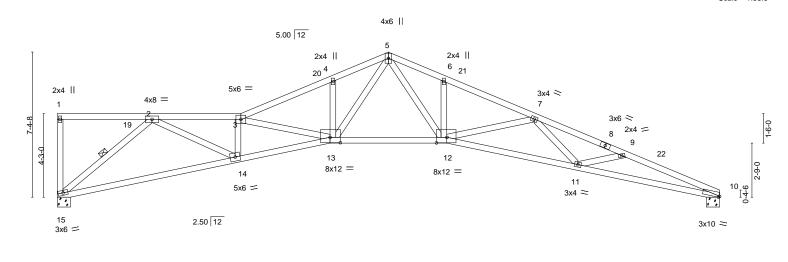


Plate Off	fsets (X,Y)	[10:0-0-8,Edge], [12:0-6-	6,0-3-5], [13:0-	6-4,0-3-3]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.87	Vert(LL)	-0.46 11-12	>870	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.88 11-12	>459	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.46 10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS					Weight: 174 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

19-9-10

5-11-3

LUMBER-

TOP CHORD 2x4 SP No 2

4-9-12

4-9-12

2x4 SP M 31 \*Except\* **BOT CHORD** 12-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 15=0-8-0, 10=0-8-0

Max Horz 15=-181(LC 13)

9-4-0

Max Uplift 15=-270(LC 12), 10=-258(LC 13) Max Grav 15=1240(LC 1), 10=1240(LC 1)

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

2-3=-3796/701, 3-4=-3587/648, 4-5=-3588/712, 5-6=-3595/713, 6-7=-3615/660, TOP CHORD

7-9=-4370/803. 9-10=-4560/921

BOT CHORD 14-15=-337/1659, 13-14=-711/3980, 12-13=-314/2399, 11-12=-657/3990,

10-11=-818/4220

2-15=-2095/470, 2-14=-387/2448, 3-14=-1415/304, 3-13=-673/177, 5-13=-377/1562,

5-12=-355/1580, 7-12=-654/274, 7-11=-33/334

### NOTES-

**WEBS** 

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 15, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=270, 10=258,



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

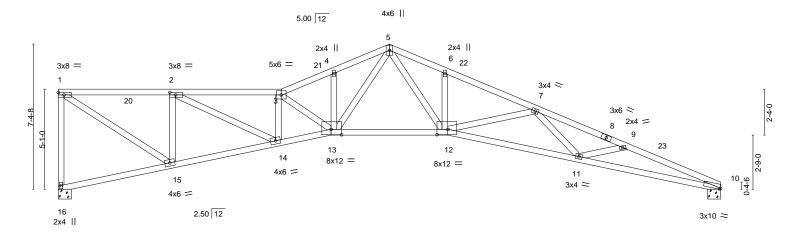


Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055067 T15 2902489 Roof Special Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:01 2021 Page 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Z4sNtyHzsdfmfQavu\_A9k5La8WQ1Nh9Al74RrPymy58 11-4-0 13-10-6 16-10-0 19-9-10 24-2-15 28-8-4 33-8-0 5-6-4 2-6-6 2-11-10 2-11-10 4-5-5 4-11-12

Scale = 1:58.6



	5-9-12	11-4-0	13-10-6	19-9-10	26-5-9	33-8-0	
	5-9-12	5-6-4	2-6-6	5-11-3	6-8-0	7-2-7	
Plate Offs	sets (X,Y) [2:0-3-8,0-1-8],	[10:0-0-8,Edge], [12:0-6-9	,0-3-4], [13:0-6	6-6,0-3-4]			

LOADIN TCLL	<b>G</b> (psf) 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.87	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.45 11-12 >887 240	PLATES GRIP MT20 244/190
TCDL	7.0	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.64	Vert(CT) -0.86 11-12 >468 180	20
BCLL BCDL	0.0 * 10.0	Code FBC2020/TPI2014	WB 0.80 Matrix-MS	Horz(CT) 0.43 10 n/a n/a	Weight: 180 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP M 31 \*Except\* **BOT CHORD** 12-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 16=0-8-0, 10=0-8-0

Max Horz 16=-197(LC 13)

Max Uplift 16=-274(LC 12), 10=-255(LC 13) Max Grav 16=1240(LC 1), 10=1240(LC 1)

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

TOP CHORD 1-16=-1193/275, 1-2=-1637/330, 2-3=-3527/639, 3-4=-3553/629, 4-5=-3548/677,

5-6=-3592/697, 6-7=-3614/646, 7-9=-4370/794, 9-10=-4560/912 BOT CHORD 14-15=-281/1677, 13-14=-608/3684, 12-13=-300/2401, 11-12=-644/3990,

10-11=-809/4220

**WEBS**  $1-15 = -390/1941, \ 2-15 = -1269/320, \ 2-14 = -363/2100, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-13 = -464/139, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255, \ 3-14 = -1272/255,$ 

5-13=-335/1518, 5-12=-352/1573, 7-12=-654/274, 7-11=-34/335

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 16, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=274, 10=255.



Structural wood sheathing directly applied or 1-10-10 oc purlins,

Rigid ceiling directly applied or 8-8-0 oc bracing.

except end verticals.

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055068 T16 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:02 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-1GQm4llcdxndHa96RhhOHJtj\_wmH68UK\_np?Orymy57

19-9-10

2-11-10

24-2-15

28-8-4

4-5-5

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied or 8-8-11 oc bracing.

16-10-0

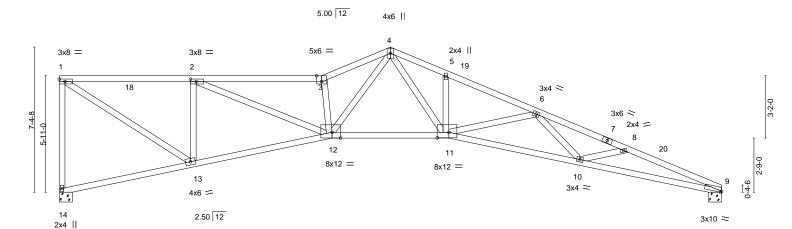
3-6-0

13-4-0

6-6-4

Scale = 1:58.6

4-11-12



	6-9-12	13-10-6	19-9-10	26-5-9	33-8-0	1
	6-9-12	7-0-10	5-11-3	6-8-0	7-2-7	
Plate Offs	ets (X,Y) [2:0-3-8,0-1-8], [3:0	-3-0,Edge], [9:0-0-8,Edge], [11:0-7-	1,0-3-5], [12:0-5-3,0-3-7]			

LOADIN	VI /		2-0-0	CSI.	0.00	DEFL.	in (loc	,	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.99	Vert(LL)	-0.45 10-1	1 >893	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.85 10-1	1 >471	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.41	9 n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2	014	Matri	x-MS					Weight: 178 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP M 31 \*Except\* **BOT CHORD** 

11-12: 2x4 SP No.2 WFBS 2x4 SP No.3

REACTIONS. (size) 14=0-8-0, 9=0-8-0

Max Horz 14=-213(LC 13)

Max Uplift 14=-278(LC 8), 9=-253(LC 13)

Max Grav 14=1240(LC 1), 9=1240(LC 1)

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

TOP CHORD 1-14=-1187/276, 1-2=-1608/318, 2-3=-3540/621, 3-4=-3550/639, 4-5=-3592/680,

5-6=-3614/632, 6-8=-4370/782, 8-9=-4561/901

BOT CHORD 12-13=-240/1652, 11-12=-282/2401, 10-11=-631/3990, 9-10=-799/4220

**WEBS** 1-13=-374/1901, 2-13=-1210/318, 2-12=-372/2087, 3-12=-1602/359, 4-12=-299/1497,

4-11=-350/1574, 6-11=-654/274, 6-10=-35/336

# NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 14, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=278, 9=253.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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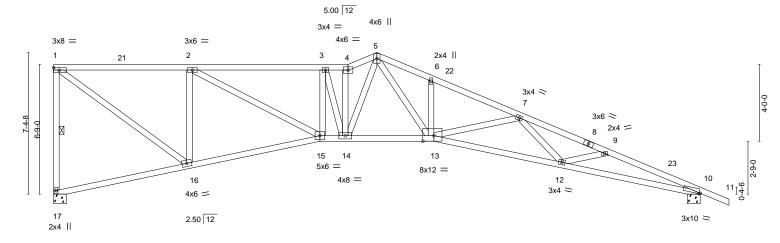
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055069 T17 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:03 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-VSz8HeIEOFvTukkl?PDdqWQuxK7MrduTDRZYwHymy56 13-10-6 15-4-0 16-10-0 19-9-10 28-8-4 7-0-15 24-2-15 7-0-15 6-9-7 1-5-10 1-6-0 2-11-10 4-5-5 4-5-5 1-6-0

Scale = 1:60.0



	7-0-15	6-9-7 '1-5-10'	4-5-10	6-8-0	7-2-7
Plate Offsets (X,Y)	[10:0-0-12,0-0-7], [13:0-6-14,0-3-6				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.92	Vert(LL) -0	.42 12-13 >955 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.59	Vert(CT) -0	.80 12-13 >501 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.66	Horz(CT) 0	.37 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 195 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

19-9-10

15-4-0

26-5-9

except end verticals.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP M 31 \*Except\* BOT CHORD 13-15: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 17=0-8-0, 10=0-8-0 Max Horz 17=-248(LC 13)

7-0-15

Max Uplift 17=-293(LC 8), 10=-282(LC 13) Max Grav 17=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD 1-17=-1182/277, 1-2=-1400/277, 2-3=-2740/470, 3-4=-2751/463, 4-5=-2994/510,

5-6=-3574/644, 6-7=-3598/587, 7-9=-4335/736, 9-10=-4513/852 BOT CHORD 16-17=-95/257, 15-16=-155/1438, 14-15=-336/2755, 13-14=-242/2403, 12-13=-574/3968,

13-10-6

10-12=-733/4171

**WEBS** 1-16=-339/1722, 2-16=-1152/308, 2-15=-248/1528, 3-15=-371/138, 4-14=-952/150,

5-14=-207/1083, 5-13=-340/1543, 7-13=-648/271, 7-12=-28/336

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-10-0, Exterior(2R) 16-10-0 to 20-2-6, Interior(1) 20-2-6 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=293, 10=282,



33-8-0

Structural wood sheathing directly applied or 1-9-15 oc purlins,

Rigid ceiling directly applied or 9-1-3 oc bracing.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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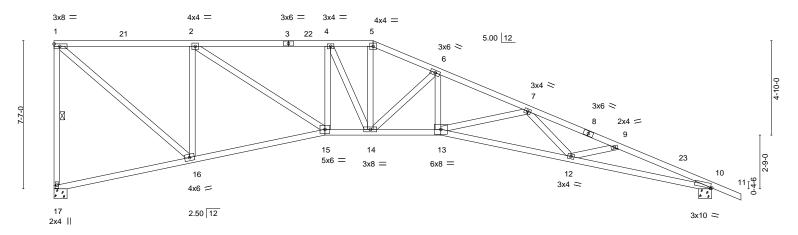
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055070 T18 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:04 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-zfXWV\_Js9Y1KWuJUZ6ksMkz3hkRPa2MdS5l6Skymy55 13-10-6 16-4-0 19-9-10 24-2-15 28-8-4 33-8-0 4-11-12 7-0-15 6-9-7 2-5-10 3-5-10 4-5-5 1-6-0

Scale = 1:59.0



	7-0-15	6-9-7	2-5-10	3-5-10	6-8-0		7-2-7	<u> </u>
Plate Offsets (X,Y	) [10:0-0-12,0-0-7]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL)	-0.40 12-13 >999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.77 12-13 >524	180		
BCLL 0.0	<ul> <li>Rep Stress Incr</li> </ul>	YES	WB 0.77	Horz(CT)	0.35 10 n/a	n/a		
BCDL 10.0	Code FBC2020/7	ΓPI2014	Matrix-MS				Weight: 195 lb	FT = 20%

19-9-10

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

26-5-9

except end verticals.

1 Row at midpt

16-4-0

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP M 31 \*Except\* BOT CHORD 13-15: 2x4 SP No.2

WFBS

2x4 SP No.3

REACTIONS. (size) 17=0-8-0, 10=0-8-0

7-0-15

Max Horz 17=-267(LC 13)

Max Uplift 17=-312(LC 9), 10=-282(LC 13) Max Grav 17=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD  $1-17=-1181/286,\ 1-2=-1205/249,\ 2-4=-2233/410,\ 4-5=-2281/406,\ 5-6=-2483/423,$ 

6-7=-3603/562, 7-9=-4334/733, 9-10=-4515/851

BOT CHORD 16-17=-107/277, 15-16=-74/1240, 14-15=-224/2245, 13-14=-360/3225, 12-13=-552/3964,

10-12=-732/4174

 $1 - 16 = -324/1573, \ 2 - 16 = -1114/312, \ 2 - 15 = -201/1237, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 4 - 15 = -354/150, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 - 14 = -139/852, \ 5 -$ 

13-10-6

6-14=-1311/296, 6-13=-159/1095, 7-13=-611/266, 7-12=-29/340

### NOTES-

**WEBS** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 16-4-0, Exterior(2R) 16-4-0 to 19-7-14, Interior(1) 19-7-14 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



33-8-0

Structural wood sheathing directly applied or 1-9-13 oc purlins,

Rigid ceiling directly applied or 9-1-5 oc bracing.

6904 Parke East Blvd. Tampa FL 33610

August 18,2021

17=312, 10=282.

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055071 T19 2902489 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:05 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Rr5uiJKUws9B81uh7qF5vxVES8lSJUjmgl2f\_Aymy54 7-10-0 14-4-0 19-9-10 24-2-15 28-8-4 35-2-0 1-6-0 6-6-0 6-6-0 5-5-10 4-5-5 4-11-12 5.00 12 Scale = 1:60.0 4x8 = 4x4 = 4x6 = 4x4 = 2 3 20 21 3x6 ≥ 22 5 3x4 > 6 3-5-0 Z-10-6 3x6 < 2x4 = 13 12 23 8x12 =6x8 = 14 3x4 = 4x4 =15 16 4x4 =2.50 12 3x10 = 2x4 || 1-4-0 7-10-0 13-10-6 26-5-9 33-8-0 5-11-3 6-6-0 6-0-6 6-8-0 Plate Offsets (X,Y)--[2:0-5-12,0-2-0], [9:0-0-12,0-0-7], [13:0-5-11,0-3-2] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.92 Vert(LL) -0.41 11-12 >987 240 MT20 244/190 TCDL вс 7.0 Lumber DOL 1.25 0.80 Vert(CT) -0.77 11-12 >519 180 WB 0.89 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.36 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 210 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP M 31 \*Except\* **BOT CHORD** 12-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 16=0-8-0, 9=0-8-0

Max Horz 16=-286(LC 13)

Max Uplift 16=-292(LC 9), 9=-322(LC 13) Max Grav 16=1238(LC 1), 9=1323(LC 1)

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

2-3=-1154/237, 3-4=-1874/396, 4-5=-2043/398, 5-6=-3616/715, 6-8=-4331/912, TOP CHORD

8-9=-4517/1023, 1-16=-1218/231

BOT CHORD 15-16=-104/296, 14-15=0/312, 13-14=-39/1189, 12-13=-459/3241, 11-12=-728/3959, 9-11=-892/4176

**WEBS** 2-15=-1108/277, 2-14=-282/1380, 3-14=-1044/281, 3-13=-216/965, 4-13=-9/481, 5-13=-1602/409, 5-12=-184/1107, 6-12=-589/249, 6-11=-18/335, 1-15=-228/1146

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II: Exp B: Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-4-0, Exterior(2R) 1-4-0 to 6-1-2, Interior(1) 6-1-2 to 14-4-0, Exterior(2R) 14-4-0 to 19-1-2, Interior(1) 19-1-2 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=292, 9=322,



Structural wood sheathing directly applied or 1-9-15 oc purlins,

2-15, 5-13, 1-16

Rigid ceiling directly applied or 8-3-0 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055072 2902489 T20 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:06 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-w1fGwfL6hAH2lBTtgXmKR92PDX5H2wCwvPnCXcymy53 7-10-0 12-4-0 13-10-6 19-9-10 24-2-15 28-8-4 33-8-0 4-11-12 4-6-0 4-6-0 1-6-6 5-11-3 4-5-5 1-6-0 5.00 12 Scale = 1:61.7 4x4 = 4x4 = 3x4 = 3x6 > 2 3 5 4x4 = 3x6 > 3x4 > 3x6 > 7-10-6 8 2x4 = 9 13 8x12 = 6x8 = 3x8 = 12 3x4 = 16 4x8 = 17 2.50 12 3x10 = 2x4 || 3-4-0 13-10-6 33-8-0 5-11-3 3-4-0 9-0-0 1-6-6 6-8-0 Plate Offsets (X,Y)--[10:0-0-12,0-0-7], [14:0-6-8,0-3-6] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.91 Vert(LL) -0.41 12-13 >989 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.77 12-13 >520 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.94 Horz(CT) 0.36 10 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 220 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins, 2x4 SP M 31 \*Except\* **BOT CHORD** except end verticals. BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.

**WEBS** 

1 Row at midpt

13-14: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 17=0-8-0, 10=0-8-0

Max Horz 17=-299(LC 13)

Max Uplift 17=-269(LC 13), 10=-319(LC 13) Max Grav 17=1238(LC 1), 10=1323(LC 1)

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

TOP CHORD 1-2=-526/113, 2-3=-458/122, 3-4=-1480/322, 4-5=-1629/348, 5-6=-2039/386,

6-7=-3619/701, 7-9=-4330/898, 9-10=-4517/1010, 1-17=-1229/240 BOT CHORD

16-17=-107/308, 15-16=0/1027, 14-15=-104/1885, 13-14=-446/3244, 12-13=-714/3958, 10-12=-879/4176

**WEBS**  $3-16=-1152/272,\ 3-15=-175/893,\ 4-15=-92/514,\ 5-15=-1309/327,\ 5-14=-202/1148,$ 6-14=-1612/408, 6-13=-181/1110, 7-13=-585/248, 7-12=-20/334, 1-16=-182/1063

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II: Exp B: Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-4-0, Exterior(2R) 3-4-0 to 7-10-0, Interior(1) 7-10-0 to 12-4-0, Exterior(2R) 12-4-0 to 17-1-2, Interior(1) 17-1-2 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 17, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=269, 10=319,



2-16, 3-16, 6-14, 1-17

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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

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

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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055073 T21 2902489 diH Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:08 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-sQn1LLMMDnXm?VdFoyooXa7liLnpWwGCMiGJbVymy51 3-10-8 13-10-6 24-2-15 28-8-4 33-8-0 19-9-10 3-10-8 4-11-12 7-11-0 2-0-14 5-11-3 4-5-5 1-6-0 Scale = 1:62.9 5.00 12 4x8 = 4x8 = 20 2 21 22 23 3x6 > 4x4 = 4 3x6 > 8-9 3x4 > 6 3x6 > 7-10-6 2x4 = 8 13 12 25 8x12 =6x8 = 4x8 3x4 = 15 4x4 = 2.50 12 3x10 = 2x4 || 3-10-8 11-9-8 13-10-6 26-5-9 3-10-8 7-11-0 2-0-14 6-8-0 5-11-3 Plate Offsets (X,Y)--[2:0-5-8,0-2-0], [3:0-4-0,0-1-13], [9:0-0-12,0-0-7], [13:0-6-8,0-3-7] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.91 Vert(LL) -0.41 11-12 >988 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.77 11-12 >520 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.52 Horz(CT) 0.36 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 212 lb FT = 20% LUMBER-**BRACING-**TOP CHORD TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins,

BOT CHORD

**WEBS** 

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-3-15 oc bracing.

2-15, 4-14, 5-13, 1-16

2x4 SP No.2 \*Except\* 2-3: 2x4 SP M 31

**BOT CHORD** 2x4 SP M 31 \*Except\*

12-13: 2x4 SP No.2

**WEBS** 2x4 SP No.3

REACTIONS.

(size) 16=0-8-0, 9=0-8-0

Max Horz 16=-302(LC 13) Max Uplift 16=-270(LC 13), 9=-318(LC 13)

Max Grav 16=1238(LC 1), 9=1323(LC 1)

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

1-2=-586/131, 2-3=-1385/310, 3-4=-1512/324, 4-5=-2038/382, 5-6=-3619/696, TOP CHORD

6-8=-4330/894, 8-9=-4518/1006, 1-16=-1217/248

BOT CHORD 15-16=-110/312, 14-15=0/546, 13-14=-105/1894, 12-13=-442/3245, 11-12=-710/3957,

9-11=-876/4176

**WEBS** 2-15=-906/228, 2-14=-259/1179, 3-14=-10/348, 4-14=-1297/302, 4-13=-195/1197, 5-13=-1615/409, 5-12=-180/1109, 6-12=-584/248, 6-11=-20/334, 1-15=-192/1066

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 3-10-8, Exterior(2R) 3-10-8 to 8-7-10, Interior(1) 8-7-10 to 11-9-8, Exterior(2R) 11-9-8 to 16-6-10, Interior(1) 16-6-10 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=270. 9=318.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

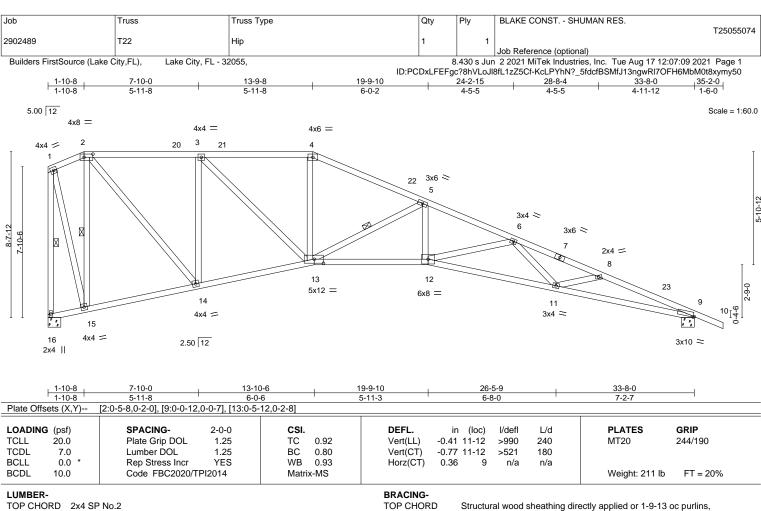
August 18,2021

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





BOT CHORD

WEBS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-3-2 oc bracing.

2-15, 5-13, 1-16

TOP CHORD 2x4 SP No.2

2x4 SP M 31 \*Except\* **BOT CHORD** 12-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 16=0-8-0, 9=0-8-0

Max Horz 16=-290(LC 13)

Max Uplift 16=-281(LC 9), 9=-322(LC 13)

Max Grav 16=1238(LC 1), 9=1323(LC 1)

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

TOP CHORD 1-2=-313/66, 2-3=-1108/230, 3-4=-1813/392, 4-5=-2035/391, 5-6=-3622/715,

6-8=-4330/908, 8-9=-4519/1020, 1-16=-1221/232 BOT CHORD 15-16=-107/298, 14-15=0/363, 13-14=-24/1143, 12-13=-460/3249, 11-12=-723/3955,

9-11=-889/4177

**WEBS** 2-15=-1063/250, 2-14=-266/1293, 3-14=-1019/275, 3-13=-222/962, 4-13=-6/477, 5-13=-1628/423, 5-12=-181/1103, 6-12=-577/242, 6-11=-20/336, 1-15=-214/1113

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II: Exp B: Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 1-10-8, Exterior(2R) 1-10-8 to 6-7-10, Interior(1) 6-7-10 to 13-9-8, Exterior(2R) 13-9-8 to 18-6-10, Interior(1) 18-6-10 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 16, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=281, 9=322.



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August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055075 T23 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:10 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-opunm1OdkOnUEpmevNrGc?D5C9TM\_pBVq0lQgNymy5? 9-8-2 4-8-5 13-10-6 1-1-10 24-2-15 28-8-4 33-8-0 12-8-13 19-9-10 4-11-13 3-0-11 5-11-3 4-5-5 4-11-12 1-6-0 Scale = 1:61.6 5.00 12 5x8 = 2x4 || 5 4 4x4 = 2x4 || 4x4 = 21 3x6 ≥ 20 3x4 ≥ 3x6 > 2x4 = 8 13 8x12 = 6x8 = 15 12 4x8 = 3x4 = 2.50 12 3x10 = 3x6 =9-8-2 13-10-6 26-5-9 5-11-3 9-8-2 6-8-0 Plate Offsets (X,Y)--[10:0-0-12,0-0-7], [14:0-5-12,0-3-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.91 Vert(LL) -0.40 12-13 >998 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.82 -0.77 12-13 >525 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.62 Horz(CT) 0.36 10 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 205 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 1-9-15 oc purlins,

BOT CHORD

**WEBS** 

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 8-8-11 oc bracing.

1-16, 2-16, 6-14

REACTIONS.

**BOT CHORD** 2x4 SP M 31 \*Except\* 13-14: 2x4 SP No.2

WFBS 2x4 SP No.3

(size) 16=0-8-0, 10=0-8-0

Max Horz 16=-294(LC 13)

Max Uplift 16=-259(LC 8), 10=-298(LC 13) Max Grav 16=1238(LC 1), 10=1323(LC 1)

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

2-3=-1501/248, 3-4=-1676/297, 4-5=-2007/385, 5-6=-2040/327, 6-7=-3619/599, TOP CHORD

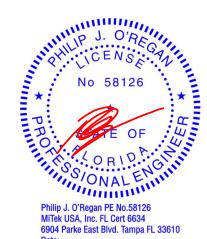
7-9=-4330/806 9-10=-4518/923

BOT CHORD 15-16=-10/814, 14-15=-59/1596, 13-14=-353/3245, 12-13=-621/3957, 10-12=-799/4176 WEBS 2-16=-1430/280, 2-15=-157/1159, 3-15=-809/190, 4-14=-314/1422, 5-14=-251/155,

6-14=-1612/386, 6-13=-161/1108, 7-13=-598/251, 7-12=-27/334

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 12-8-13, Exterior(2R) 12-8-13 to 16-1-3, Interior(1) 16-1-3 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 16, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=259, 10=298.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021



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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055076 T24 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:11 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-G?S9zNPFVivLsyLqT4MV8ClF\_YoujE6f3gVzCqymy5\_ 7-8-2 13-10-6 1-1-10 19-9-10 24-2-15 28-8-4 33-8-0 12-8-13 5-0-11 5-11-3 4-5-5 4-5-5 4-11-12 1-6-0 Scale = 1:61.6 5.00 12 5x8 = 2x4 || 3 3x8 = 5x6 =21 20 3x6 < 19 3x4 > 6 3x6 > 2x4 = 12 13 8x12 = 6x8 = 14 11 3x4 = 5x8 = 15 2.50 12 3x10 = 2x4 || 13-10-6 26-5-9 33-8-0 7-8-2 5-11-3 6-8-0 7-2-7 6-2-5 Plate Offsets (X,Y)--[9:0-0-12,0-0-7], [13:0-6-4,0-3-5] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.98 Vert(LL) -0.41 11-12 >989 240 MT20 244/190 TCDL вс Vert(CT) 7.0 Lumber DOL 1.25 0.80 -0.77 11-12 >520 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.64 Horz(CT) 0.36 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 195 lb FT = 20% **BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP M 31 \*Except\*

12-13: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 15=0-8-0, 9=0-8-0 Max Horz 15=-278(LC 13)

Max Uplift 15=-244(LC 12), 9=-302(LC 13) Max Grav 15=1238(LC 1), 9=1323(LC 1)

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

TOP CHORD 1-15=-1175/246, 1-2=-1393/237, 2-3=-1595/305, 3-4=-2004/399, 4-5=-2043/345,

5-6=-3618/616, 6-8=-4330/822, 8-9=-4518/937

BOT CHORD 14-15=-95/287, 13-14=-85/1603, 12-13=-369/3245, 11-12=-637/3957, 9-11=-812/4176 WEBS 1-14=-284/1684, 2-14=-948/282, 3-14=-365/85, 3-13=-300/1447, 5-13=-1608/391,

5-12=-165/1104, 6-12=-599/251, 6-11=-26/335

### NOTES-

15=244, 9=302.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2. Interior(1) 3-6-2 to 12-8-13. Exterior(2R) 12-8-13 to 16-1-3, Interior(1) 16-1-3 to 35-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 15, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- Philip J. O'Regan PE No 5
  MiTek USA, Inc F NOIN Philip J. O'Regan PE No.58126

Structural wood sheathing directly applied, except end verticals.

1-15, 3-14, 5-13

Rigid ceiling directly applied or 8-7-12 oc bracing.

1 Row at midpt

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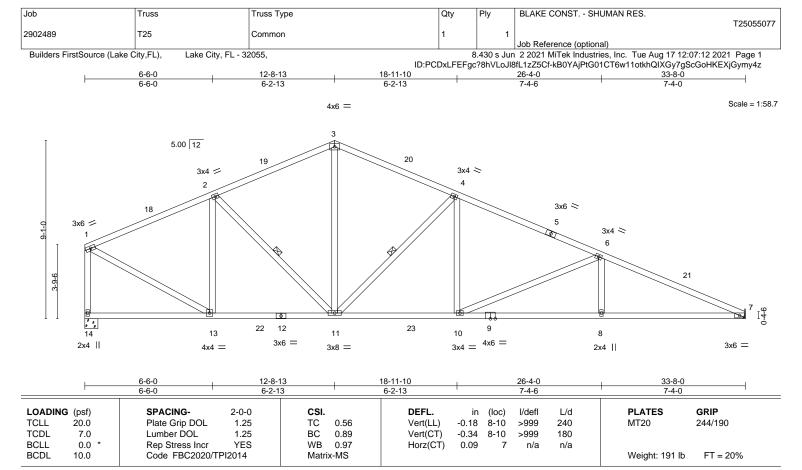
August 18,2021

O'REGA,

ENS







**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 14=0-8-0, 7=Mechanical

Max Horz 14=-198(LC 13)

Max Uplift 14=-228(LC 12), 7=-280(LC 13) Max Grav 14=1369(LC 2), 7=1351(LC 2)

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

1-2=-1346/272, 2-3=-1414/343, 3-4=-1414/341, 4-6=-2103/431, 6-7=-2867/583, TOP CHORD 1-14=-1271/273

BOT CHORD

11-13=-177/1199, 10-11=-235/1883, 8-10=-476/2613, 7-8=-476/2613 WFBS 2-13=-452/152, 3-11=-142/801, 4-11=-896/293, 4-10=-60/577, 6-10=-795/268,

6-8=0/306, 1-13=-225/1337

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-2, Interior(1) 3-6-2 to 12-8-13, Exterior(2R) 12-8-13 to 16-1-3, Interior(1) 16-1-3 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) except (jt=lb) 14=228, 7=280.



Structural wood sheathing directly applied or 2-10-1 oc purlins,

2-11, 4-11

Rigid ceiling directly applied or 8-4-8 oc bracing.

except end verticals

1 Row at midpt

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055078 2902489 T26 Roof Special Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:13 2021 Page 1

4-0-0

Structural wood sheathing directly applied, except end verticals.

2-16, 4-16, 6-15, 7-14

4-4-0

Rigid ceiling directly applied or 7-7-0 oc bracing.

1 Row at midpt

3-0-0

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-CNawO3QV1JA35GVDbVOzEdrcNMTvB71xW\_\_4Giymy4y 12-8-13 18-11-10 26-4-0 30-8-0 32-8-0 34-8-0 37-8-0 6-2-13 6-2-13 2-0-0 2-0-0 3-0-0 1-6-0

Scale = 1:66.9

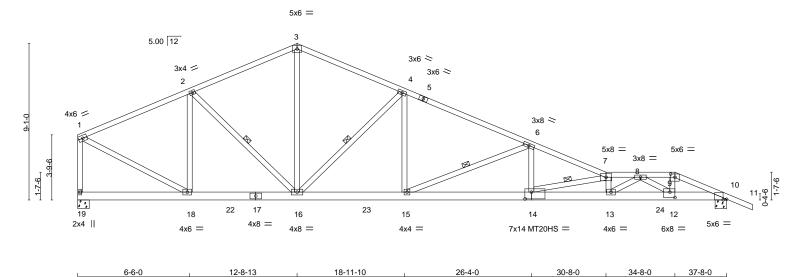


Plate Off	sets (X,Y)	[9:0-3-0,0-2-4], [10:0-2-7,	0-0-8], [12:0-3	-8,0-3-12], [14:0	-4-8,0-4-12]						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0	.92	Vert(LL)	-0.45 13-14	>990	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0	.89	Vert(CT)	-0.79 13-14	>567	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB 0	.74	Horz(CT)	0.12 10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-N	1S					Weight: 250 lb	FT = 20%

**BRACING-**

WFBS

TOP CHORD

BOT CHORD

7-4-6

6-2-13

LUMBER-

TOP CHORD 2x4 SP No 2

2x6 SP No.2 \*Except\* **BOT CHORD** 10-14: 2x6 SP M 26

WFBS 2x4 SP No.3

REACTIONS. (size) 19=0-8-0, 10=0-8-0

Max Horz 19=-216(LC 9)

6-6-0

Max Uplift 19=-262(LC 8), 10=-513(LC 9) Max Grav 19=1588(LC 2), 10=2106(LC 2)

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

TOP CHORD 1-2=-1606/298, 2-3=-1770/412, 3-4=-1772/397, 4-6=-2863/605, 6-7=-4933/1065,

6-2-13

7-8=-7845/1752, 8-9=-4740/1114, 9-10=-4932/1148, 1-19=-1487/275 16-18=-205/1439, 15-16=-373/2588, 14-15=-895/4549, 13-14=-1716/7959, BOT CHORD

12-13=-1417/6389, 10-12=-1006/4524

**WEBS** 2-18=-568/173, 2-16=-72/303, 3-16=-206/1078, 4-16=-1410/414, 4-15=-173/1082,

6-15=-2121/565, 6-14=-219/1309, 7-14=-3546/854, 7-13=-975/271, 8-13=-328/1751,

9-12=-393/1845, 1-18=-268/1604, 8-12=-1983/439

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=262, 10=513,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 118 lb down and 59 lb up at 34-8-0 on top chord, and 547 lb down and 166 lb up at 33-8-12, and 77 lb down and 12 lb up at 34-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST SHUMAN RES.
					T25055078
2902489	T26	Roof Special Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:14 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ha8lbOR7odlwjQ4P8DvCmrNn7mp8waG5lejeo8ymy4x

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-3=-54, 3-7=-54, 7-9=-54, 9-11=-54, 10-19=-20 Concentrated Loads (lb) Vert: 9=-22(F) 12=-32(F) 24=-536(F)

Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055079 T27 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:15 2021 Page 1

18-11-10

6-2-13

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-9migpkSlZxQnKafciwQRJ2w1xABHf2EEzlTBKbymy4w <u> 26-4-0</u> 28-8-0 32-8-0 37-8-0 4-0-0 5-0-0 1-6-0

Structural wood sheathing directly applied or 2-2-0 oc purlins,

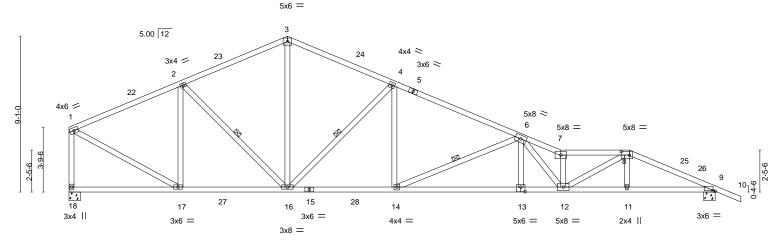
2-16, 4-16, 6-14

Rigid ceiling directly applied or 9-2-1 oc bracing.

except end verticals.

1 Row at midpt

Scale = 1:67.2



	6-6-0	12-8-13	18-11-10	26-4-0	28-8-0	32-8-0	37-8-0	1
	6-6-0	6-2-13	6-2-13	7-4-6	2-4-0	4-0-0	5-0-0	7
Plate Offsets	(X,Y) [8:0-5-12,0-2-8],	[9:0-1-8,0-0-8], [13:0-3-0,0-	3-4]					

BRACING-

TOP CHORD

**BOT CHORD** 

WEBS

LOADIN	· ·	SPACING-	2-0-0	CSI.		DEFL.	,	oc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.34 13-	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.61 13-	14	>739	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TP	12014	Matri	x-MS						Weight: 222 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP M 31 \*Except\* **BOT CHORD** 15-18: 2x4 SP No.2

WFBS

2x4 SP No.3

REACTIONS. (size) 18=0-8-0, 9=0-8-0

Max Horz 18=-216(LC 13)

Max Uplift 18=-243(LC 12), 9=-358(LC 13) Max Grav 18=1528(LC 2), 9=1573(LC 2)

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

TOP CHORD 1-2=-1523/310, 2-3=-1660/395, 3-4=-1662/396, 4-6=-2630/540, 6-7=-5174/1098,

12-8-13

6-2-13

7-8=-4660/983, 8-9=-3350/707, 1-18=-1431/307

BOT CHORD 16-17=-183/1363, 14-16=-313/2372, 13-14=-724/3923, 12-13=-724/3923,

11-12=-584/3065, 9-11=-585/3052

**WEBS** 2-17=-535/173, 2-16=-63/269, 3-16=-183/994, 4-16=-1259/371, 4-14=-130/934, 6-14=-1683/446, 6-13=0/275, 6-12=-320/1403, 8-12=-353/1827, 1-17=-267/1524,

7-12=-2014/448

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-10-15, Interior(1) 3-10-15 to 12-8-13, Exterior(2R) 12-8-13 to 16-6-0, Interior(1) 16-6-0 to 32-8-0, Exterior(2R) 32-8-0 to 36-5-3, Interior(1) 36-5-3 to 39-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=243, 9=358.



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August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055080 T28 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:16 2021 Page 1

4-0-0

3-8-6

18-11-10

6-2-13

12-8-13

6-2-13

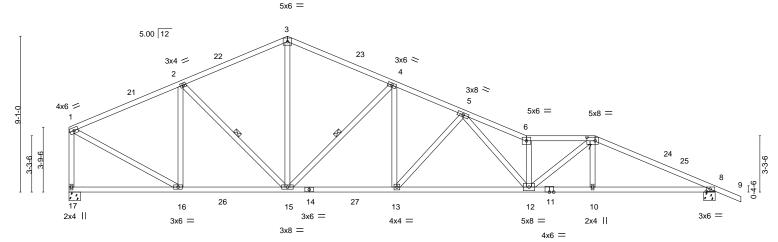
ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-dyG204SOKEYdykEoGdygrGT7bZUhOV7OCyCks1ymy4v 22-11-10 26-8-0 30-8-0 37-8-0

7-0-0

4-0-0

Scale = 1:67.2

1-6-0



	0-0-0	0-2-13	0-2-13	7-0-0	4-0-0	7-0-0	
Plate Offsets (X,Y)	[7:0-5-12,0-2-8], [8:0-2-1	2,0-1-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	<b>DEFL.</b> in (loc)	I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.92	Vert(LL) -0.33 12-13	>999 240	MT20 244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.95	Vert(CT) -0.59 12-13	>760 180		

18-11-10

BCLL 0.0 Rep Stress Incr WB 0.66 BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS

Horz(CT) 0.10 n/a n/a

26-8-0

Weight: 221 lb FT = 20%

LUMBER-

WFBS

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP M 31 \*Except\*

8-11: 2x4 SP No.2 2x4 SP No.3

6-6-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.

30-8-0

**BOT CHORD** Rigid ceiling directly applied or 2-2-0 oc bracing. WFBS 1 Row at midpt 2-15 4-15

REACTIONS.

(size) 17=0-8-0, 8=0-8-0 Max Horz 17=-216(LC 13)

Max Uplift 17=-243(LC 12), 8=-358(LC 13) Max Grav 17=1528(LC 2), 8=1573(LC 2)

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

1-2=-1523/312, 2-3=-1661/399, 3-4=-1657/398, 4-5=-2589/548, 5-6=-4352/945, TOP CHORD

6-7=-3918/822, 7-8=-3222/680, 1-17=-1431/309

BOT CHORD 15-16=-183/1362, 13-15=-305/2365, 12-13=-493/2984, 10-12=-542/2933, 8-10=-542/2923 WEBS 2-16=-535/174, 2-15=-64/271, 3-15=-173/979, 4-15=-1248/359, 4-13=-169/999,

12-8-13

 $5-13 = -933/283, \ 6-12 = -1788/444, \ 7-12 = -218/1246, \ 1-16 = -269/1525, \ 5-12 = -357/1576$ 

### NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-10-15, Interior(1) 3-10-15 to 12-8-13, Exterior(2R) 12-8-13 to 16-6-0, Interior(1) 16-6-0 to 30-8-0, Exterior(2R) 30-8-0 to 34-5-3, Interior(1) 34-5-3 to 39-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=243, 8=358.



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August 18,2021

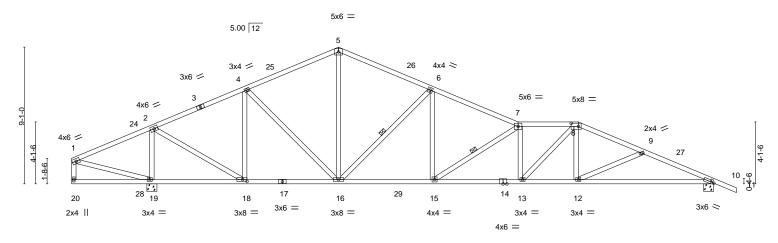


Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055081 2902489 T29 Roof Special Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:17 2021 Page 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-59qQEQT05YgUatp\_qLTvOT?Q1zpZ7z?XRcyIPTymy4u 11-6-0 17-8-13 23-11-10 29-8-0 33-8-0 37-10-8 42-8-0 6-2-0 6-2-13 6-2-13 5-8-6 4-0-0 4-2-8 4-9-8

Scale = 1:76.5



	3-0-0	3 11-		17-0-13		25-11-10	23-0-0		33-0-0	72-0-0	
	5-0-0	0-'4'-0 6-2	-0	6-2-13	'	6-2-13	5-8-6	'	4-0-0	9-0-0	ı.
Plate Offsets ()	(,Y) [8:0-	5-12,0-2-8], [10:0-2-	6,0-1-8], [18:0	0-3-8,0-1-8]							
LOADING (psf	)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	ó	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.25 13-15	>999	240	MT20	244/190
TCDL 7.0	)	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.44 13-15	>999	180		
BCLL 0.0	) *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	)	Code FBC2020/T	PI2014	Matri:	x-MS					Weight: 249 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

23-11-10

20-8-0

except end verticals.

1 Row at midpt

33-8-0

Structural wood sheathing directly applied or 3-0-2 oc purlins,

6-16, 7-15

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

LUMBER-

2x4 SP No 2

5-0-0

5-4-0

11-6-0

17-8-13

TOP CHORD 2x4 SP M 31 \*Except\* **BOT CHORD** 

14-17: 2x4 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 19=0-8-0, 10=0-8-0

Max Horz 19=-175(LC 13)

Max Uplift 19=-346(LC 12), 10=-358(LC 13) Max Grav 19=1961(LC 2), 10=1538(LC 2)

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

TOP CHORD 1-2=-247/292, 2-4=-1324/276, 4-5=-1552/381, 5-6=-1552/365, 6-7=-2480/541,

7-8=-3241/724, 8-9=-2923/636, 9-10=-3185/738

BOT CHORD 18-19=-224/333, 16-18=-162/1174, 15-16=-309/2254, 13-15=-581/3258, 12-13=-463/2673,

10-12=-617/2925

**WEBS** 2-19=-1667/463, 2-18=-357/1616, 4-18=-620/240, 4-16=-92/336, 5-16=-175/899,

6-16=-1231/366, 6-15=-144/929, 7-15=-1208/328, 7-13=-455/133, 8-13=-159/799,

8-12=-24/374, 9-12=-321/169, 1-19=-273/318

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 17-8-13, Exterior(2R) 17-8-13 to 22-0-0, Interior(1) 22-0-0 to 33-8-0, Exterior(2R) 33-8-0 to 38-0-12, Interior(1) 38-0-12 to 44-2-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=346, 10=358.



42-8-0

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August 18,2021

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

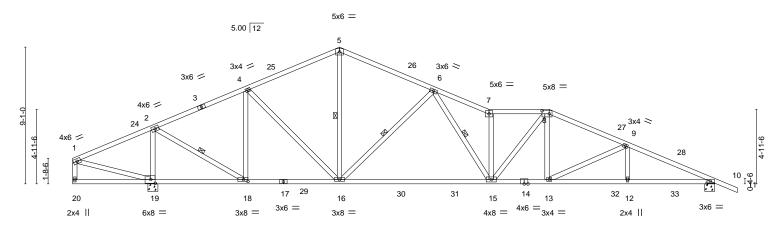


Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055082 T30 2902489 Roof Special Job Reference (optional) 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:18 2021 Page 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ZLNpRmUessoLB1NAN2\_8xhYY7NBGsQFhgGhrxwymy4t 11-6-0 17-8-13 23-11-10 27-8-0 31-8-0 36-10-8 42-8-0 44-2-0 6-2-0 6-2-13 6-2-13 3-8-6 4-0-0 5-2-8 5-9-8

Scale = 1:76.5



	5-0-0 5-A <sub>F</sub> 0 11-6-0	17-8-13	27-8-0	1 31-8-0	36-10-8	42-8-0
	5-0-0 0-4-0 6-2-0	6-2-13	9-11-3	4-0-0	5-2-8	5-9-8
Plate Offsets (X,Y)	[8:0-5-12,0-2-8], [10:0-2-12,0-1-8], [18:	0-3-8,0-1-8], [19:0-3-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	,		ATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.60	Vert(LL) 0.55 15-16	5 >816 24	40 MT	20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.82	Vert(CT) -0.69 15-16	5 >646 18	30	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.10 10	) n/a n	ı/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			We	eight: 249 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 \*Except\* **BOT CHORD** 

14-17: 2x4 SP M 31

WFBS 2x4 SP No.3

REACTIONS. (size) 19=0-8-0, 10=0-8-0

Max Horz 19=-175(LC 13)

Max Uplift 19=-535(LC 8), 10=-470(LC 8) Max Grav 19=1969(LC 2), 10=1547(LC 2)

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

TOP CHORD  $1\hbox{-}2\hbox{-}55/290,\ 2\hbox{-}4\hbox{-}-1325/1217,\ 4\hbox{-}5\hbox{-}-1586/1444,\ 5\hbox{-}6\hbox{-}-1586/1454,\ 6\hbox{-}7\hbox{-}-3192/2838,$ 

7-8=-2899/2568, 8-9=-2724/2352, 9-10=-3262/2801 BOT CHORD

16-18=-964/1175, 15-16=-1766/2218, 13-15=-2055/2480, 12-13=-2530/2972,

10-12=-2530/2972

**WEBS** 2-19=-1667/1189, 2-18=-1210/1615, 4-18=-638/370, 4-16=-227/380, 5-16=-966/921,

6-16=-1136/973, 6-15=-1276/1367, 7-15=-1331/1147, 8-15=-575/656, 8-13=-375/316,

9-13=-557/536, 9-12=-270/233, 1-19=-271/94

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 17-8-13, Exterior(2R) 17-8-13 to 22-0-0, Interior(1) 22-0-0 to 31-8-0, Exterior(2R) 31-8-0 to 35-11-3, Interior(1) 35-11-3 to 44-2-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=535, 10=470.



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

2-18, 5-16, 6-16, 6-15

Rigid ceiling directly applied or 3-5-2 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055083 T31 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:19 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-1XxBe6VGd9wCpByNxmVNTu5j?nVmbsbquwROTMymy4s

29-8-0

4-0-0

20-8-0

except end verticals.

1 Row at midpt

35-10-8

6-2-8

35-10-8

Rigid ceiling directly applied or 2-2-0 oc bracing.

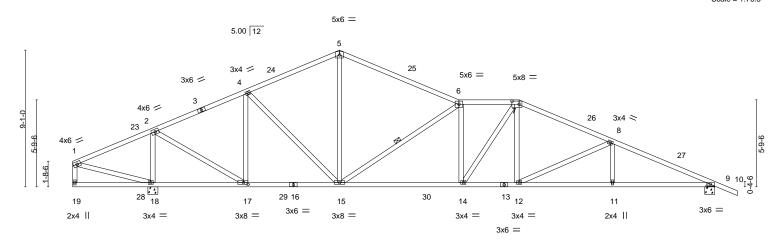
Structural wood sheathing directly applied or 2-10-14 oc purlins,

Scale = 1:76.5

42-8-0

6-9-8

42-8-0



	1	3-0-0 3- <del>11</del> -0 11-0	J-U	17-0-13	1	23-0-0	1 29-0-	-U	33-10-0	1 42-0-1	U I
		5-0-0 0-4-0 6-2	-0	6-2-13	1	7-11-3	4-0-	0 '	6-2-8	6-9-8	3
Plate Of	fsets (X,Y)	[7:0-5-12,0-2-8], [9:0-2-1	2,0-1-8], [17:0	-3-8,0-1-8]							
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.26 14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.48 14-15	>934	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11 9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	x-MS	, ,				Weight: 245 lb	FT = 20%

25-8-0

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD

2x4 SP No.2 \*Except\*

5-0-0

5-4-0

11-6-0

5-6: 2x4 SP M 31

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

**WEBS** 2x4 SP No.3

REACTIONS. (size) 18=0-8-0, 9=0-8-0

Max Horz 18=-175(LC 13)

Max Uplift 18=-346(LC 12), 9=-358(LC 13) Max Grav 18=1958(LC 2), 9=1539(LC 2)

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

TOP CHORD 1-2=-247/291, 2-4=-1316/275, 4-5=-1558/381, 5-6=-1569/353, 6-7=-2513/580,

11-6-0

6-2-0

17-8-13

6-2-13

17-8-13

7-8=-2525/569, 8-9=-3197/696

**BOT CHORD** 17-18=-222/332, 15-17=-162/1166, 14-15=-377/2515, 12-14=-352/2287, 11-12=-566/2908, 9-11=-566/2908

**WEBS**  $2 - 18 = -1662/471, \ 2 - 17 = -363/1605, \ 4 - 17 = -626/240, \ 4 - 15 = -100/360, \ 5 - 15 = -131/841,$ 

6-15=-1369/396, 7-14=-69/393, 7-12=-74/434, 8-12=-698/237, 8-11=0/276,

1-18=-274/322

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-15, Interior(1) 4-4-15 to 17-8-13, Exterior(2R) 17-8-13 to 22-0-0, Interior(1) 22-0-0 to 29-8-0, Exterior(2R) 29-8-0 to 33-11-3, Interior(1) 33-11-3 to 44-2-0 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=346, 9=358.



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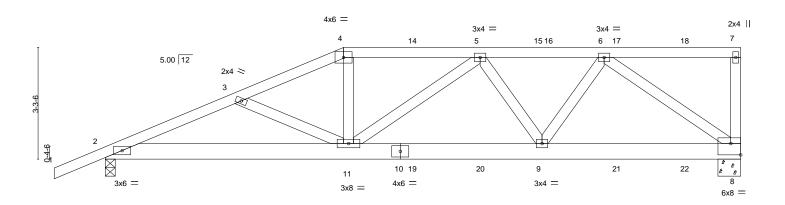


Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055084 2 2902489 T32 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:20 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-VkVZsSWuOT23RLXZVT0c06dvGBwLKFFz7aAy?oymy4r -1-6-0 14-7-14 18-8-0 7-0-0 11-0-3

3-0-1

Scale = 1:33.8

4-0-2



		7-0-				12-10-0					18-8-0	
	'	7-0-	0		'	5-9-15			'		5-10-0	<u> </u>
Plate Offs	sets (X,Y)	[8:Edge,0-4-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.10	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.16	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matrix	c-MS						Weight: 110 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No 3 WFBS

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

Max Horz 2=119(LC 8)

Max Uplift 8=-689(LC 4), 2=-559(LC 4) Max Grav 8=1464(LC 1), 2=1299(LC 1)

3-11-15

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

TOP CHORD 2-3=-2729/1170. 3-4=-2536/1133. 4-5=-2350/1073. 5-6=-2076/970

BOT CHORD 2-11=-1125/2499. 9-11=-1091/2348. 8-9=-751/1604

WFBS 4-11=-280/637, 5-9=-512/239, 6-9=-411/889, 6-8=-1961/918

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=689, 2=559,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 77 lb up at 13-0-12, and 109 lb down and 82 lb up at 15-0-12, and 109 lb down and 82 lb up at 17-0-12 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 Ib down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, and 85 lb down and 60 lb up at 15-0-12, and 85 lb down and 60 lb up at 17-0-12 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 2-8=-20

## O'REG

Structural wood sheathing directly applied or 3-4-5 oc purlins,

Rigid ceiling directly applied or 6-11-1 oc bracing.

except end verticals.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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0000400	T00	Half His Oistan			T25055084
2902489	T32	Half Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:21 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-zw3x3oWW9nAw3V6l3BXrYJA4?aGa3iU7MEwVYEymy4q

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 4=-109(F) 11=-332(F) 5=-109(F) 9=-65(F) 14=-109(F) 16=-109(F) 17=-109(F) 18=-109(F) 19=-65(F) 20=-65(F) 21=-65(F) 22=-65(F)

Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055085 T33 2 2902489 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:21 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-zw3x3oWW9nAw3V6l3BXrYJA46aCP3ov7MEwVYEymy4q

13-10-0

9-0-0

4-1-15

Scale = 1:34.0

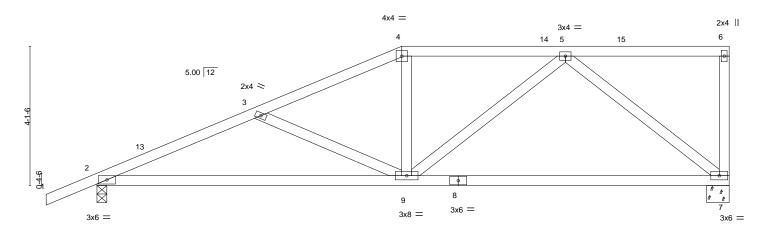
18-8-0

4-10-0

Structural wood sheathing directly applied or 4-11-12 oc purlins,

Rigid ceiling directly applied or 9-4-14 oc bracing.

except end verticals



	9-0-0 9-0-0		+		18-8-0 9-8-0		
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         YES           Code FBC2020/TPI2014	CSI. TC 0.49 BC 0.85 WB 0.56 Matrix-MS	DEFL.         in           Vert(LL)         -0.19           Vert(CT)         -0.38           Horz(CT)         0.03	(loc) l/dei 7-9 >999 7-9 >589 7 n/s	240 5 180	PLATES MT20 Weight: 94 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 7=0-8-0 Max Horz 2=148(LC 12)

Max Uplift 2=-196(LC 12), 7=-172(LC 8) Max Grav 2=770(LC 1), 7=682(LC 1)

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

TOP CHORD 2-3=-1303/327, 3-4=-992/220, 4-5=-874/225 **BOT CHORD** 2-9=-388/1182. 7-9=-178/629

**WEBS** 3-9=-343/177. 5-9=-68/368. 5-7=-780/231

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 18-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=196, 7=172,



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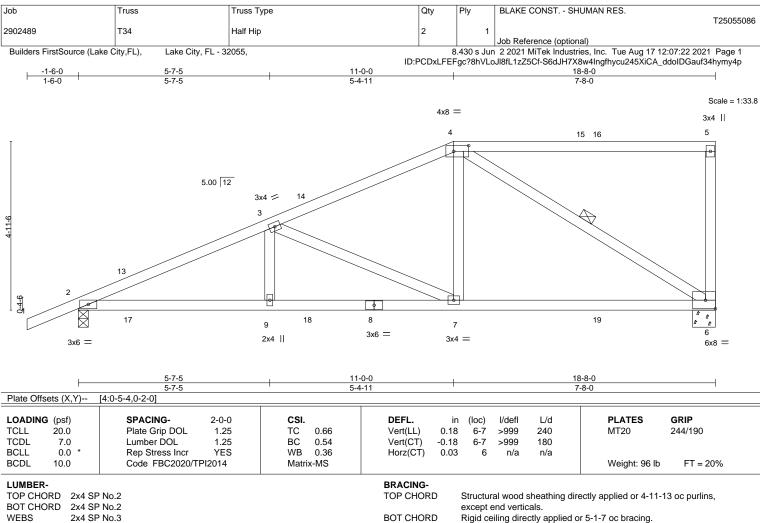
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**WEBS** 

1 Row at midpt

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 6=0-8-0

Max Horz 2=177(LC 12)

Max Uplift 2=-292(LC 8), 6=-318(LC 8) Max Grav 2=770(LC 1), 6=682(LC 1)

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

TOP CHORD 2-3=-1311/1159 3-4=-804/728

**BOT CHORD** 2-9=-1178/1167, 7-9=-1178/1167, 6-7=-722/702 WFBS 3-7=-519/516, 4-7=-554/441, 4-6=-784/814

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=292, 6=318.



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August 18,2021

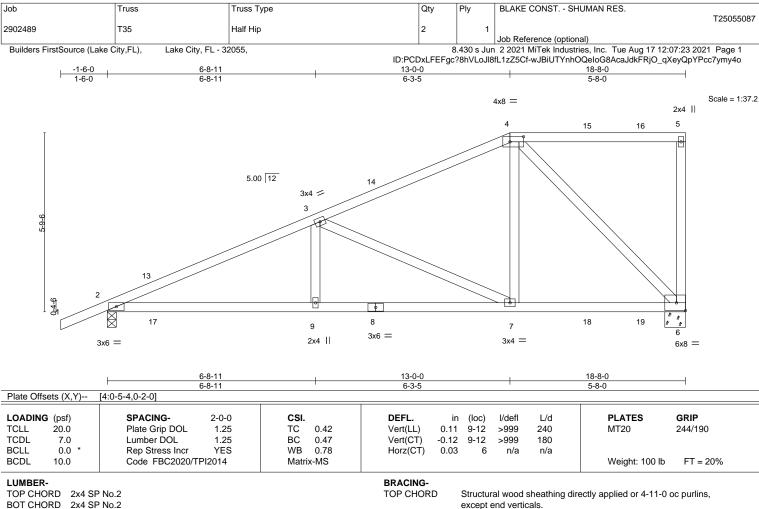


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BOT CHORD

Rigid ceiling directly applied or 5-3-11 oc bracing.

WFBS REACTIONS. 2x4 SP No.3

(size) 2=0-3-8, 6=0-8-0 Max Horz 2=205(LC 12)

Max Uplift 2=-279(LC 8), 6=-311(LC 8) Max Grav 2=770(LC 1), 6=682(LC 1)

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

TOP CHORD 2-3=-1262/1073 3-4=-614/524

**BOT CHORD** 2-9=-1115/1116. 7-9=-1115/1116. 6-7=-533/510 WFBS 3-9=-314/275, 3-7=-674/654, 4-7=-575/452, 4-6=-702/736

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=279, 6=311.



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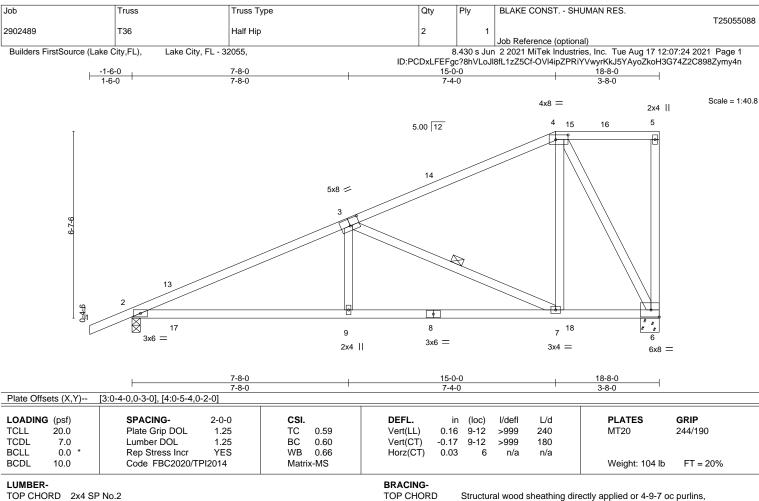
August 18,2021

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BOT CHORD

**WEBS** 

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 5-3-14 oc bracing.

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

REACTIONS. (size) 6=0-8-0, 2=0-3-8

Max Horz 2=234(LC 12)

Max Uplift 6=-303(LC 8), 2=-268(LC 8) Max Grav 6=682(LC 1), 2=770(LC 1)

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

TOP CHORD 2-3=-1216/985 3-4=-437/332

**BOT CHORD** 2-9=-1052/1067, 7-9=-1051/1067, 6-7=-359/333 WFBS

3-9=-372/329, 3-7=-811/770, 4-7=-618/480, 4-6=-679/735

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 15-0-0, Exterior(2E) 15-0-0 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=303, 2=268.



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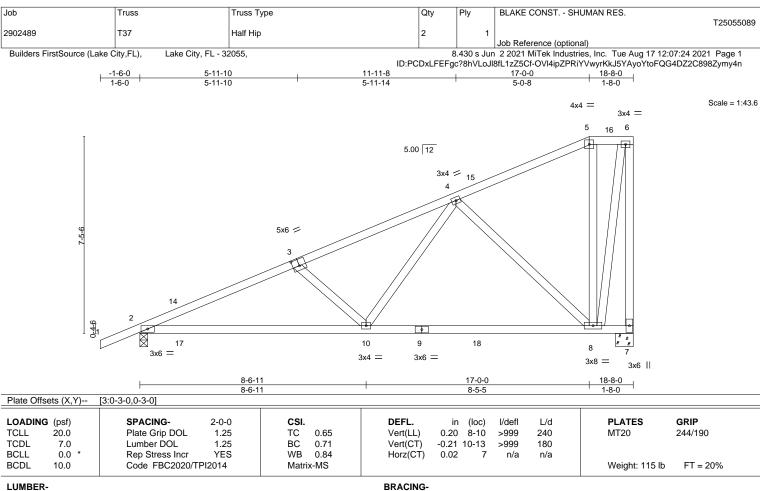


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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

REACTIONS. (size) 7=0-8-0, 2=0-3-8 Max Horz 2=263(LC 12)

Max Uplift 7=-294(LC 8), 2=-258(LC 8)

Max Grav 7=682(LC 1), 2=770(LC 1)

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

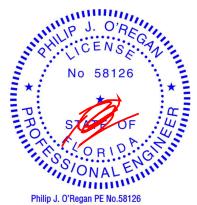
TOP CHORD 2-3=-1249/926, 3-4=-1016/877, 6-7=-720/837

**BOT CHORD** 2-10=-1034/1122. 8-10=-549/590

WFBS 3-10=-341/190. 4-10=-642/542. 4-8=-629/539. 6-8=-844/712

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 17-0-0, Exterior(2E) 17-0-0 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=294, 2=258.



Structural wood sheathing directly applied or 4-11-7 oc purlins,

Rigid ceiling directly applied or 5-3-9 oc bracing

except end verticals.

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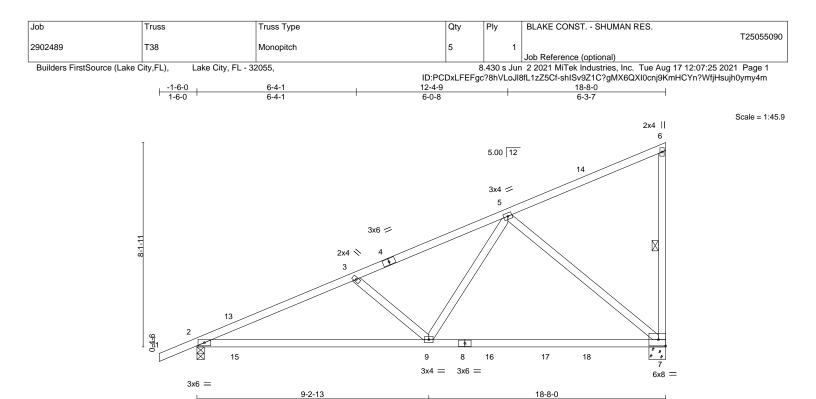


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LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.48	DEFL. Vert(LL) 0.	in (loc) 35 7-9	l/defl >632	L/d 240	PLATES MT20	<b>GRIP</b> 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.95	Vert(CT) -0.		>477	180	WITZO	244/100
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.96 Matrix-MS	Horz(CT) 0.	03 7	n/a	n/a	Weight: 98 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

9-5-3

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 4-7-5 oc purlins,

6-7

Rigid ceiling directly applied or 2-2-0 oc bracing.

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 7=0-8-0 Max Horz 2=284(LC 12)

Max Uplift 2=-251(LC 8), 7=-286(LC 8) Max Grav 2=811(LC 2), 7=752(LC 2)

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

TOP CHORD 2-3=-1313/978, 3-5=-1092/891 **BOT CHORD** 2-9=-1129/1190 7-9=-557/598

**WEBS**  $3-9=-357/244,\ 5-9=-753/700,\ 5-7=-763/707$ 

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 18-6-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9-2-13

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=251, 7=286.



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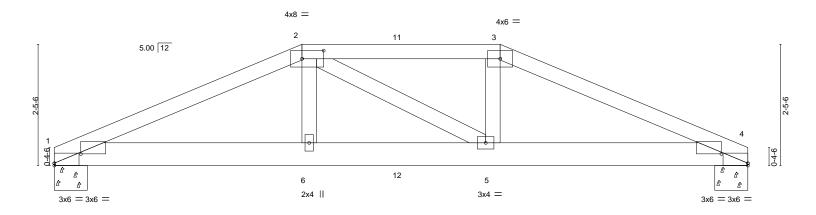
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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055091 2902489 T39 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:26 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-Kusq6VafzJoD9G?jrk70FNtySb?qk9WsVWdGDSymy4l 14-0-Ó

4-0-0

Scale = 1:23.3



- 1		3-0-0		1		3-0-0		- 1			14-0-0	
		5-0-0		1		4-0-0		- 1			5-0-0	
Plate C	Offsets (X,Y)	[1:0-6-7,0-2-4], [1:0-0-0,0	-0-9], [2:0-5-4,0	-2-0], [4:0-6	5-7,0-2-4], [4	:0-0-0,0-0-9]						
LOADI	NG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.05	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.08	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.15	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 66 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

a\_n\_n

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2 WFBS

2x4 SP No.3

REACTIONS. (size) 1=0-8-0, 4=0-8-0

Max Horz 1=-31(LC 32)

Max Uplift 1=-308(LC 4), 4=-314(LC 5) Max Grav 1=809(LC 1), 4=813(LC 1)

5-0-0

5-0-0

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

TOP CHORD 1-2=-1707/657, 2-3=-1566/640, 3-4=-1704/669 BOT CHORD 1-6=-575/1539, 5-6=-582/1562, 4-5=-583/1543

2-6=-101/392, 3-5=-89/392 WFBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=308, 4=314,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 77 lb down and 65 lb up at 5-0-0, and 58 lb down and 58 lb up at 7-0-0, and 119 lb down and 116 lb up at 9-0-0 on top chord, and 180 lb down and 90 lb up at 5-0-0, and 47 lb down at 7-0-0, and 180 lb down and 90 lb up at 8-11-4 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-2=-54, 2-3=-54, 3-4=-54, 1-4=-20

Concentrated Loads (lb)

Vert: 2=-58(F) 3=-72(F) 6=-180(F) 5=-180(F) 11=-58(F) 12=-38(F)



1/1-0-0

Structural wood sheathing directly applied or 4-3-6 oc purlins.

Rigid ceiling directly applied or 9-6-9 oc bracing.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

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Qty T25055092 T40 2902489 Hip Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:31 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-hrgjACeoorRVF1tgeHjByQakwcdpPJXbfnL1ufymy4g 12-2-14 17-4-0 27-8-0 30-8-1

5-1-2

Plv

BLAKE CONST. - SHUMAN RES.

3-0-1

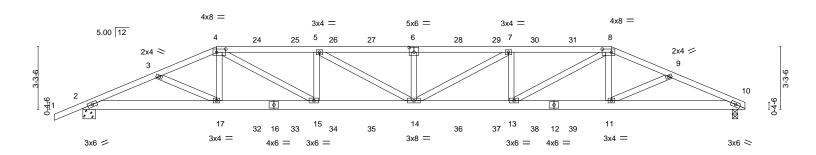
Structural wood sheathing directly applied or 3-8-8 oc purlins.

Rigid ceiling directly applied or 8-9-15 oc bracing.

5-2-14

Scale = 1:60.3

3-11-15



	<b>——</b>	7-0-0 7-0-0	12-2-14 5-2-14	17-4-0 5-1-2			2-5-2 -1-2	-		7-8-0 -2-14	34-3-8 6-7-8	34-8-0 0-4-8
Plate Offse	ets (X,Y)	[4:0-5-12,0-2-0], [6:0-3-					-1-2			-2-14	0-7-0	0-4-6
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.72		Vert(LL)	0.40	14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.79		Vert(CT)	-0.65	14	>640	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.55		Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code FBC2020/	TPI2014	Matrix-MS							Weight: 396 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

WFBS

Job

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No 2

2x4 SP No.3

(size) 2=0-8-0, 10=0-3-8 Max Horz 2=62(LC 12)

Truss

Truss Type

Max Uplift 2=-1057(LC 8), 10=-1072(LC 9) Max Grav 2=2649(LC 1), 10=2683(LC 1)

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

2-3=-6206/2555, 3-4=-6062/2519, 4-5=-7926/3380, 5-6=-8658/3711, 6-7=-8658/3711, TOP CHORD

7-8=-7852/3364, 8-9=-5801/2434, 9-10=-5766/2382

BOT CHORD 2-17=-2356/5689, 15-17=-2303/5614, 14-15=-3313/7926, 13-14=-3292/7852,

11-13=-2202/5364, 10-11=-2128/5224

WEBS 4-17=-220/687, 4-15=-1185/2697, 5-15=-1039/476, 5-14=-427/890, 6-14=-608/291, 7-14=-444/960, 7-13=-1070/484, 8-13=-1249/2876, 8-11=-102/456, 9-11=-168/297

### NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
  - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.

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.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1057, 10=1072,



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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST SHUMAN RES.
					T25055092
2902489	T40	Hip Girder	1	2	Job Reference (optional)
				_	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:31 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-hrgjACeoorRVF1tgeHjByQakwcdpPJXbfnL1ufymy4g

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 15-0-12, 109 lb down and 87 lb up at 17-0-12, 109 lb down and 77 lb up at 17-7-4, 109 lb down and 82 lb up at 19-7-4, 109 lb down and 82 lb up at 21-7-4, 109 lb down and 82 lb up at 23-7-4, and 109 lb down and 82 lb up at 25-7-4, and 221 lb down and 159 lb up at 27-8-0 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 17-7-4, 85 lb down and 60 lb up at 19-7-4, 85 lb down and 60 lb up at 21-7-4, 85 lb down and 60 lb up at 23-7-4, and 85 lb down and 60 lb up at 25-7-4, and 332 lb down and 207 lb up at 27-7-4 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-8=-54, 8-10=-54, 2-10=-20

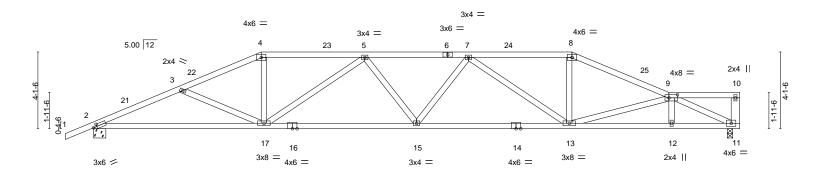
Concentrated Loads (lb)

Vert: 4=-109(B) 8=-174(B) 17=-332(B) 14=-129(B) 6=-219(B) 11=-332(B) 24=-109(B) 25=-109(B) 26=-109(B) 27=-109(B) 28=-109(B) 29=-109(B) 30=-109(B) 31=-109(B) 32=-65(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-65(B) 38=-65(B) 39=-65(B)

Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055093 T41 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:32 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-91E5NYfQZ9ZMtBStC?EQVe7yp0x88iAkuR4aR6ymy4f 4-9-8 14-6-11 25-8-0 30-10-6 34-8-0 4-9-8 4-2-8 5-6-11 5-6-11 5-6-11 3-9-10

Scale = 1:61.8



<del>                                     </del>	9-0-0 9-0-0	17-4-0 8-4-0	25-8-0 8-4-0	30-10-6 34-3-8 34-8-0 5-2-6 3-5-2 0-4-8
Plate Offsets (X,Y) [2:0-	2-6,0-1-8], [9:0-5-8,0-2-0]	0-4-0	0-4-0	3-2-0 3-0-2 0-4-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING-         2-0-0           Plate Grip DOL         1.25           Lumber DOL         1.25           Rep Stress Incr         YES           Code FBC2020/TPI2014	CSI. TC 0.52 BC 0.91 WB 0.78 Matrix-MS	DEFL.         in (loc)         l/defl           Vert(LL)         -0.24         15         >999           Vert(CT)         -0.48         13-15         >852           Horz(CT)         0.15         11         n/a	L/d PLATES GRIP 240 MT20 244/190 180 n/a Weight: 175 lb FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3 \*Except\* WFBS

10-11: 2x6 SP No.2

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

Max Horz 2=106(LC 12)

Max Uplift 11=-290(LC 9), 2=-297(LC 8) Max Grav 11=1272(LC 1), 2=1357(LC 1)

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

TOP CHORD 2-3=-2776/608, 3-4=-2479/551, 4-5=-2270/530, 5-7=-2869/696, 7-8=-2241/543,

8-9=-2452/562

BOT CHORD  $2-17 = -583/2528,\ 15-17 = -659/2817,\ 13-15 = -663/2804,\ 12-13 = -548/2457,\ 11-12 = -545/2460$ 

WEBS 3-17=-312/176, 4-17=-110/684, 5-17=-756/225, 7-13=-780/225, 8-13=-101/632,

9-13=-260/134, 9-11=-2638/581

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 9-0-0, Exterior(2R) 9-0-0 to 12-5-10, Interior(1) 12-5-10 to 25-8-0, Exterior(2R) 25-8-0 to 29-1-10, Interior(1) 29-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=290, 2=297.



Structural wood sheathing directly applied or 3-1-14 oc purlins,

Rigid ceiling directly applied or 7-3-3 oc bracing.

except end verticals.

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021





Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055094 T42 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:33 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-dEnUaug2KShDVL13milf1rg8zQLOtCru65q8zYymy4e 5-9-8 11-0-0 17-4-0 23-8-0 28-10-6 34-8-0

6-4-0

Scale = 1:61.8

5-9-10

5-2-6

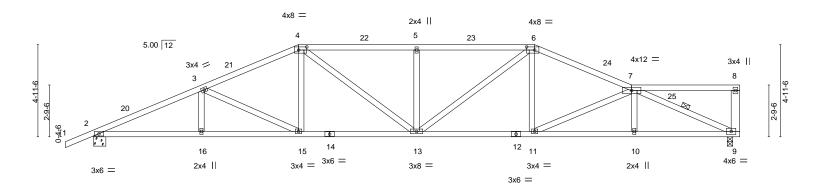
Structural wood sheathing directly applied or 3-3-0 oc purlins,

7-9

Rigid ceiling directly applied or 7-9-13 oc bracing.

except end verticals.

1 Row at midpt



	1	5-9-8	11-0-0	17-4-0	1 23-8-0	1 28-10-6	34-3-8 34-8-0
		5-9-8	5-2-8	6-4-0	6-4-0	5-2-6	5-5-2 0-4-8
Plate Offse	ts (X,Y)	[4:0-5-4,0-2-0], [6:0-5-4,0	0-2-0]				
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.49	Vert(LL) -0.20 13	>999 240	MT20 244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.65	Vert(CT) -0.38 13-15	>999 180	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT) 0.13 9	n/a n/a	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS			Weight: 186 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS

8-9: 2x6 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-8-0

Max Horz 2=134(LC 12)

5-9-8

5-2-8

Max Uplift 9=-287(LC 9), 2=-275(LC 8)

Max Grav 9=1272(LC 1), 2=1357(LC 1)

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

TOP CHORD 2-3=-2775/579, 3-4=-2292/511, 4-5=-2407/582, 5-6=-2407/582, 6-7=-2270/508

BOT CHORD 2-16=-575/2514, 15-16=-575/2514, 13-15=-444/2073, 11-13=-435/2057, 10-11=-522/2413,

9-10=-519/2418

WEBS 3-15=-503/198, 4-15=-49/389, 4-13=-134/539, 5-13=-390/188, 6-13=-138/560,

6-11=-29/365, 7-11=-412/146, 7-9=-2577/548

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 11-0-0, Exterior(2R) 11-0-0 to 14-5-10, Interior(1) 14-5-10 to 23-8-0, Exterior(2R) 23-8-0 to 27-1-10, Interior(1) 27-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=287, 2=275.



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August 18,2021

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

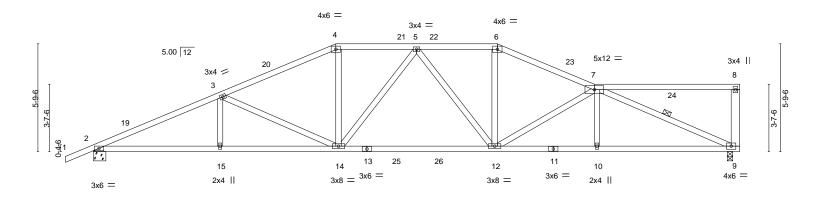
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job	Truss	Truss Type		Qty	Ply	BLAKE CONST	SHUMAN RES.	
0000400	T.10	D (0 )						T25055095
2902489	T43	Roof Special		1	1			
						Job Reference (op	tional)	
Builders FirstSource (Lake C	City,FL), Lake City,	FL - 32055,		8	.430 s Jun	2 2021 MiTek Indu	ustries, Inc. Tue Aug 17 12:07:34 2021	Page 1
				ID:PCDxLFEFgc?	8hVLoJI8t	L1zZ5Cf-5QLsoEgg	g5mp46VcFJPGua3CHoqdvca_1LlZhV	_ymy4d
լ -1-6-0 լ	6-9-8	13-0-0	17-4-0	21-8-0	1	26-10-6	34-8-0	I.
1-6-0	6-9-8	6-2-8	4-4-0	4-4-0		5-2-6	7-9-10	1

Scale = 1:61.8



	6-9-8 6-9-8	13-0-0 6-2-8			21-8-0 8-8-0	+		26-10-6 5-2-6	+	34-3-8 7-5-2	34-8-0 0-4-8
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/	2-0-0 1.25 1.25 YES TPI2014	CSI. TC BC WB Matrix	0.62 0.95 0.95 c-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (l -0.32 12 -0.57 12 0.14	-14 >	//defl >999 >729 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 189 lb	<b>GRIP</b> 244/190 FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 \*Except\* WFBS 8-9: 2x6 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-8-0

Max Horz 2=163(LC 12)

Max Uplift 9=-284(LC 9), 2=-268(LC 12) Max Grav 9=1376(LC 2), 2=1445(LC 2)

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

TOP CHORD 2-3=-2945/570. 3-4=-2311/483. 4-5=-2095/481. 5-6=-2078/468. 6-7=-2279/479

**BOT CHORD**  $2 - 15 = -583/2677, \ 14 - 15 = -583/2677, \ 12 - 14 = -450/2160, \ 10 - 12 = -492/2506, \ 9 - 10 = -490/2515$ 

WFBS 3-14=-662/247, 4-14=-70/654, 5-14=-275/88, 5-12=-293/91, 6-12=-80/659,

7-12=-531/167, 7-10=0/251, 7-9=-2658/518

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 13-0-0, Exterior(2R) 13-0-0 to 16-5-10, Interior(1) 16-5-10 to 21-8-0, Exterior(2R) 21-8-0 to 25-1-10, Interior(1) 25-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=284, 2=268.



Structural wood sheathing directly applied or 3-0-6 oc purlins,

7-9

Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.

1 Row at midpt

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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\*\*AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055096 T44 2902489 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:35 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-ZcvE?ahls4xxkeBSt7n77GlQUE\_SL0hBaPJF1Rymy4c

15-0-0 7-3-0

15-0-0

19-8-0

4-8-0

24-10-6

5-2-6

24-10-6

except end verticals.

1 Row at midpt

29-8-3

4-9-13

34-3-8

Structural wood sheathing directly applied or 2-2-0 oc purlins,

7-9

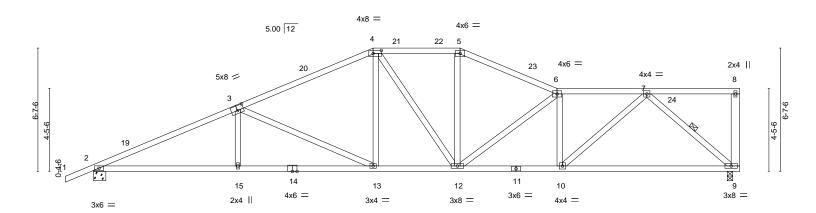
Rigid ceiling directly applied or 7-8-1 oc bracing.

Scale = 1:61.8

34-8-0

34-8-0

4-11-13



	'	7-9-0		7-3-0		4-8-0		5-2-6		'	9-5-2	0-4-8	
Plate Offsets (	X,Y) [	[3:0-4-0,0-3-0], [4:0-5-4,0	-2-0]										_
													-
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL 20.	.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	-0.23	9-10	>999	240	MT20	244/190	
TCDL 7.	.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.48	9-10	>862	180			
BCLL 0.	.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.11	9	n/a	n/a			
BCDL 10.	.0	Code FBC2020/T	PI2014	Matrix	x-MS						Weight: 195 lb	FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

19-8-0

LUMBER-TOP CHORD

2x4 SP No.2 2x4 SP No.2

BOT CHORD 2x4 SP No.3 \*Except\* WFBS

8-9: 2x6 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-8-0

Max Horz 2=192(LC 12) Max Uplift 9=-279(LC 9), 2=-282(LC 12) Max Grav 9=1272(LC 1), 2=1357(LC 1)

7-9-0

7-9-0 7-9-0

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

TOP CHORD 2-3=-2700/557, 3-4=-1949/458, 4-5=-1711/452, 5-6=-1895/459, 6-7=-2135/455

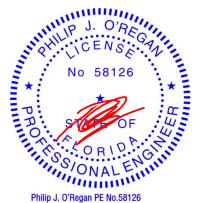
 $2-15=-588/2433,\ 13-15=-587/2437,\ 12-13=-404/1729,\ 10-12=-462/2157,\ 0-10=-289/1255,\ 0-15=0/319,\ 3-13=-789/288,\ 4-13=-74/484,\ 5-12=-69/446,\ 6-12=-583/159,$ BOT CHORD

**WEBS** 

6-10=-609/208, 7-10=-230/1178, 7-9=-1622/384

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 15-0-0, Exterior(2R) 15-0-0 to 18-5-10, Interior(1) 18-5-10 to 19-8-0, Exterior(2R) 19-8-0 to 23-1-10, Interior(1) 23-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=279, 2=282.



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August 18,2021



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055097 T45 2902489 Roof Special Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

17-0-0

5-5-10

11-6-6

5-5-10

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28-8-3

except end verticals.

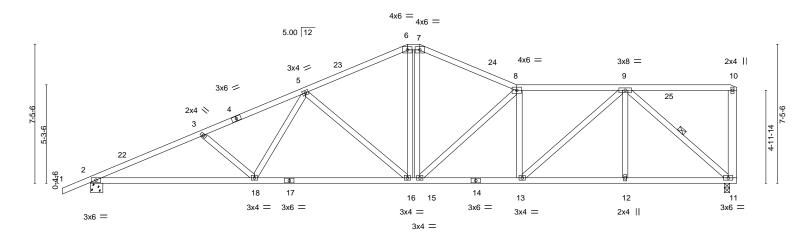
1 Row at midpt

Structural wood sheathing directly applied or 3-2-11 oc purlins,

9-11

Rigid ceiling directly applied or 7-3-4 oc bracing.

Scale = 1:61.8



							0-4-8
-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
1.25	ΓC 0.39	Vert(LL)	-0.15 16-18	>999	240	MT20	244/190
1.25 I	3C 0.90	Vert(CT)	-0.35 16-18	>999	180		
YES \	NB 0.69	Horz(CT)	0.10 11	n/a	n/a		
114 I	Matrix-MS					Weight: 209 lb	FT = 20%
,	1.25 1.25 YES	1.25 TC 0.39 1.25 BC 0.90 YES WB 0.69	1.25         TC         0.39         Vert(LL)           1.25         BC         0.90         Vert(CT)           YES         WB         0.69         Horz(CT)	1.25         TC         0.39         Vert(LL)         -0.15         16-18           1.25         BC         0.90         Vert(CT)         -0.35         16-18           YES         WB         0.69         Horz(CT)         0.10         11	1.25         TC         0.39         Vert(LL)         -0.15 16-18         >999           1.25         BC         0.90         Vert(CT)         -0.35 16-18         >999           YES         WB         0.69         Horz(CT)         0.10         11         n/a	1.25     TC     0.39     Vert(LL)     -0.15 16-18     >999     240       1.25     BC     0.90     Vert(CT)     -0.35 16-18     >999     180       YES     WB     0.69     Horz(CT)     0.10     11     n/a     n/a	1.25     TC     0.39     Vert(LL)     -0.15     16-18     >999     240     MT20       1.25     BC     0.90     Vert(CT)     -0.35     16-18     >999     180       YES     WB     0.69     Horz(CT)     0.10     11     n/a     n/a

17-8-0

BRACING-

TOP CHORD

BOT CHORD

WFBS

22-10-6

17-0-0

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WFBS

2x4 SP No.3 \*Except\* 10-11: 2x6 SP No.2

6-0-11

REACTIONS. (size) 2=0-8-0, 11=0-3-8 Max Horz 2=220(LC 12)

Max Uplift 2=-293(LC 12), 11=-278(LC 13)

Max Grav 2=1357(LC 1), 11=1272(LC 1)

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

TOP CHORD 2-3=-2734/550, 3-5=-2485/490, 5-6=-1732/392, 6-7=-1549/393, 7-8=-1722/400,

8-9=-1963/412

BOT CHORD 2-18=-656/2478. 16-18=-482/2022. 15-16=-334/1549. 13-15=-417/1978. 12-13=-268/1271.

11-12=-268/1271

WEBS 3-18=-319/179, 5-18=-81/497, 5-16=-651/253, 6-16=-110/529, 7-15=-110/448,

8-15=-619/190, 8-13=-510/166, 9-13=-201/922, 9-11=-1653/347

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-0-0, Exterior(2E) 17-0-0 to 17-8-0, Exterior(2R) 17-8-0 to 21-1-10, Interior(1) 21-1-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=293, 11=278.



34-3-8

34-8-0

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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

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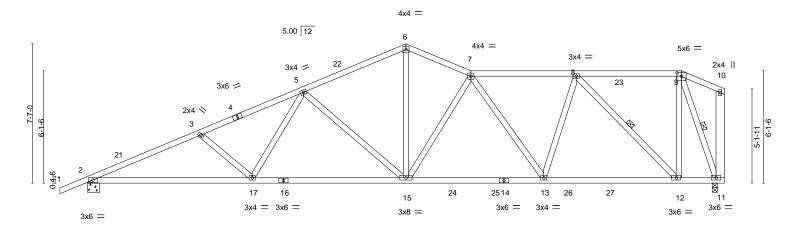
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055098 2902489 T46 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:37 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-V?1\_QGjZOhBfzyKq?YqbChqqj1gfp\_SU1joL6Jymy4a

20-10-6 3-6-6

Scale = 1:62.7



7-6-0 1-11-8 0 <sup>1</sup> -4	) <sup>1</sup> 4-8
PLATES GRIP	
MT20 244/190	)
Weight: 211 lb FT = 2	20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-TOP CHORD

2x4 SP No 2

2x4 SP No.2 \*Except\* **BOT CHORD** 

2-16: 2x4 SP M 31 **WEBS** 2x4 SP No.3 \*Except\*

10-11: 2x6 SP No.2

REACTIONS.

(size) 2=0-8-0, 11=0-3-8 Max Horz 2=221(LC 12)

Max Uplift 2=-296(LC 12), 11=-280(LC 13)

Max Grav 2=1449(LC 2), 11=1407(LC 2)

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

TOP CHORD 2-3=-2919/554, 3-5=-2714/492, 5-6=-1880/391, 6-7=-1854/406, 7-8=-1709/345, 8-9=-535/130

BOT CHORD 2-17=-659/2668, 15-17=-482/2179, 13-15=-391/1979, 12-13=-296/1495, 11-12=-98/505 **WEBS** 3-17=-327/183, 5-17=-81/577, 5-15=-662/256, 6-15=-190/1205, 7-15=-573/191,

7-13=-488/153, 8-13=-85/739, 8-12=-1385/281, 9-12=-160/1214, 9-11=-1461/279

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2E) 17-4-0 to 20-10-6, Interior(1) 20-10-6 to 32-4-0, Exterior(2E) 32-4-0 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=280,



Structural wood sheathing directly applied or 3-0-4 oc purlins,

8-12, 9-11

Rigid ceiling directly applied or 8-6-2 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021







Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055099 2902489 T47 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:39 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-SO9lrykpvIRNDGUD6zs3H6wAErLqHu2mV1HSACymy4Y

18-10-6

1-6-6

24-7-3

5-8-13

30-4-0

5-8-13

Structural wood sheathing directly applied or 3-0-3 oc purlins,

7-13, 9-11

Rigid ceiling directly applied or 8-6-2 oc bracing.

except end verticals.

1 Row at midpt

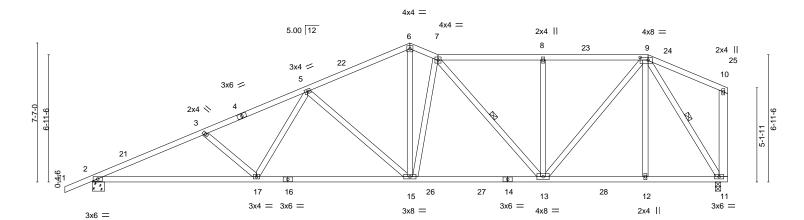
17-4-0

5-7-0

Scale = 1:62.9

34-8-0

4-4-0



	8-11-8	17-4-0	24-7-3	30-4-0	34-3-8	34-8-0
	8-11-8	8-4-8	7-3-3	5-8-13	3-11-8	0-4-8
Plate Offsets (X,Y	′) [9:0-5-4,0-1-12]					

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.44	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) -0.19 13-15 >999 240	<b>PLATES GRIP</b> MT20 244/190
	•		, , , , , , , , , , , , , , , , , , , ,	W1120 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.84	Vert(CT) -0.35 15-17 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.09 11 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 219 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 \*Except\* **BOT CHORD** 2-16: 2x4 SP M 31

**WEBS** 2x4 SP No.3 \*Except\*

10-11: 2x6 SP No.2

REACTIONS.

(size) 2=0-8-0, 11=0-3-8

Max Horz 2=221(LC 12) Max Uplift 2=-296(LC 12), 11=-280(LC 13)

Max Grav 2=1451(LC 2), 11=1412(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2924/554, 3-5=-2720/492, 5-6=-1889/400, 6-7=-1835/418, 7-8=-1535/353,

8-9=-1535/353

BOT CHORD 2-17=-659/2674, 15-17=-482/2185, 13-15=-358/1809, 12-13=-155/792, 11-12=-155/788 **WEBS** 

3-17=-328/183, 5-17=-81/576, 5-15=-656/255, 6-15=-211/1225, 7-15=-528/201,

11-9-0

5-7-0

7-13=-430/136, 8-13=-358/172, 9-13=-220/1138, 9-11=-1472/287

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II: Exp B: Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-4-0, Exterior(2E) 17-4-0 to 18-10-6, Interior(1) 18-10-6 to 30-4-0, Exterior(2R) 30-4-0 to 33-9-10, Interior(1) 33-9-10 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=280,



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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055100 T48 2902489 Hip Job Reference (optional)

17-9-10

5-8-14

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

12-0-12

5-8-14

6-3-14

6-3-14

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:40 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-waj72HlRgcZEqQ3PggNlqKSKeFi20Khwjh00jeymy4X 23-0-13 28-4-0 34-8-0

6-4-0

5-3-3

28-4-0

except end verticals.

1 Row at midpt

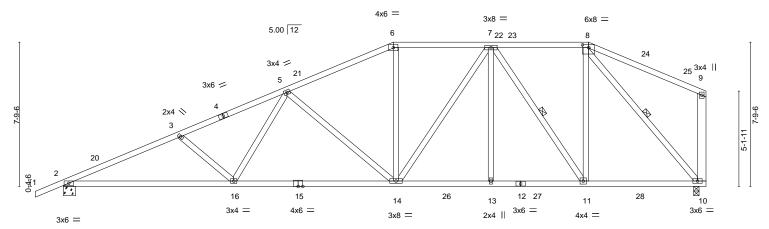
Structural wood sheathing directly applied or 2-11-11 oc purlins,

7-11, 8-10

Rigid ceiling directly applied or 7-10-12 oc bracing.

Scale = 1:62.1

34-8-0



<u>'</u>	9-2-5	'	8-7-4	·	5-3-3		5-3-3	;	5-11-8	0-4-8
Plate Offsets (X,Y)	[8:0-4-0,0-1-13]									
LOADING (psf) TCLL 20.0	SPACING- Plate Grip DOL	2-0-0 1.25	<b>CSI.</b> TC 0.47	DEFL. Vert(LL)	in (loc) -0.21 14-16	l/defl >999	L/d 240	PLATE MT20	S GRIF 244/	

23-0-13

17-9-10

TCDL Lumber DOL Vert(CT) 7.0 1.25 BC 0.78 -0.40 14-16 >999 180 0.0 WB **BCLL** Rep Stress Incr YES 0.81 Horz(CT) 0.09 10 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 217 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 2-15: 2x4 SP M 31

**WEBS** 2x4 SP No.3 \*Except\*

9-10: 2x6 SP No.2

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

Max Horz 2=224(LC 12)

Max Uplift 2=-330(LC 12), 10=-244(LC 9) Max Grav 2=1458(LC 2), 10=1445(LC 2)

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

 $2\text{-}3\text{--}2934/639,\ 3\text{-}5\text{--}2724/576,\ 5\text{-}6\text{--}1842/413,\ 6\text{-}7\text{--}1659/411,\ 7\text{-}8\text{--}1018/252}$ BOT CHORD

2-16=-740/2682, 14-16=-558/2173, 13-14=-289/1491, 11-13=-289/1491, 10-11=-173/999 WEBS 3-16=-333/188, 5-16=-81/602, 5-14=-692/262, 6-14=-40/469, 7-14=-127/315,

7-11=-868/224, 8-11=-145/983, 8-10=-1527/261

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-9-10, Exterior(2R) 17-9-10 to 22-8-7, Interior(1) 22-8-7 to 28-4-0, Exterior(2R) 28-4-0 to 33-2-13, Interior(1) 33-2-13 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=330, 10=244.



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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055101 2902489 T49 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:41 2021 Page 1

ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-OmGVGdm3Rwh4SZebEOuXMX?R4e1YltZ3yLmZF4ymy4W

Structural wood sheathing directly applied or 2-9-14 oc purlins,

5-13, 7-11, 8-10

Rigid ceiling directly applied or 8-0-13 oc bracing.

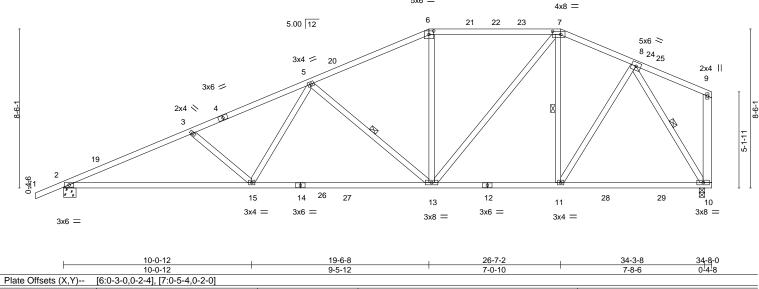
except end verticals.

1 Row at midpt

6-10-14 26-7-2 30-5-13 34-8-0 6-10-14 6-3-13 7-0-10 3-10-11 4-2-3

5x6 =

Scale = 1:61.6



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.74	Vert(LL) -0.30 13-15	>999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.89	Vert(CT) -0.52 13-15	>794 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.08 10	n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 208 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\* 2-14: 2x4 SP M 31 WFBS

2x4 SP No.3 \*Except\* 9-10: 2x6 SP No.2

REACTIONS. (size) 2=0-8-0, 10=0-3-8 Max Horz 2=235(LC 12)

Max Uplift 2=-328(LC 12), 10=-227(LC 13)

Max Grav 2=1474(LC 2), 10=1455(LC 2)

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

TOP CHORD  $2\text{-}3\text{--}2942/626,\ 3\text{-}5\text{--}2708/554,\ 5\text{-}6\text{--}1689/373,\ 6\text{-}7\text{--}1512/377,\ 7\text{-}8\text{--}1242/288}$ BOT CHORD  $2\text{-}15\text{=-}734/2688,\ 13\text{-}15\text{=-}531/2099,\ 11\text{-}13\text{=-}185/1113,\ 10\text{-}11\text{=-}145/744}$ 

WEBS 3-15=-377/210, 5-15=-92/709, 5-13=-782/287, 6-13=-6/363, 7-13=-203/656,

7-11=-355/133, 8-11=-104/716, 8-10=-1400/285

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 19-6-8, Exterior(2R) 19-6-8 to 24-5-5, Interior(1) 24-5-5 to 26-7-2, Exterior(2R) 26-7-2 to 31-5-15, Interior(1) 31-5-15 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=328, 10=227.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021



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\*\*ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information\*\* available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055102 2902489 T50 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:43 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-K9OGhJnKzXxohto\_Lox?Ry4ohSgdDeRMQfFgJzymy4U

23-4-6

28-9-12

5-5-6

Structural wood sheathing directly applied or 2-4-12 oc purlins,

8-12

Rigid ceiling directly applied or 5-4-13 oc bracing.

except end verticals.

1 Row at midpt

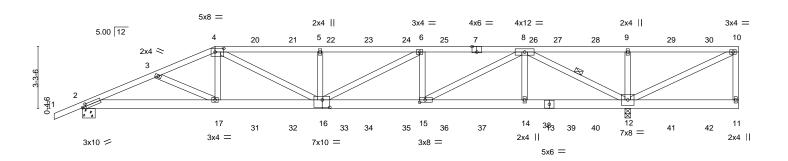
17-11-8

5-4-14

Scale = 1:60.9

34-8-0

5-10-4



		7-0-0	12-6-10		17-11-8		1	23-4-6		28-9-12	28-1 <sub>1</sub> 1-8	34-8-0	
		7-0-0	5-6-10	'	5-4-14	ı	I	5-4-14		5-5-6	0-1-12	5-8-8	1
Plate Offse	ets (X,Y)	[2:0-2-3,0-1-8], [4:0-5-8	,0-2-4], [7:0-3-0,E	dge], [15:	0-3-8,0-1-8], [	16:0-4-12,	,0-4-12]						
LOADING	(psf)	SPACING-	2-0-0	CS	l.	DI	EFL.	in (loc)	I/defI	L/d	PLATE	S	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Ve	ert(LL)	0.35 15-16	>994	240	MT20		244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.98	Ve	ert(CT)	-0.56 15-16	>614	180			
BCLL	0.0 *	Rep Stress Incr	NO	WE	3 1.00	H	orz(CŤ)	0.11 12	n/a	n/a			
BCDL	10.0	Code FBC2020/	TPI2014	Ma	trix-MS		. ,				Weight	: 207 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

**WEBS** 

LUMBER-

TOP CHORD 2x4 SP M 31 \*Except\*

1-4: 2x4 SP No.2 **BOT CHORD** 

2x6 SP No.2 \*Except\*

13-16: 2x6 SP M 26

3-11-15

**WEBS** 2x4 SP No.3

REACTIONS. (size) 2=0-8-0, 12=0-3-8

Max Horz 2=119(LC 8)

Max Uplift 2=-826(LC 8), 12=-1191(LC 4)

Max Grav 2=2120(LC 1), 12=2392(LC 1)

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

 $2 - 3 = -4849/1959, \ 3 - 4 = -4695/1919, \ 4 - 5 = -5769/2389, \ 5 - 6 = -5744/2377, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205, \ 6 - 8 = -5451/2205,$ TOP CHORD

8-9=-296/204, 9-10=-296/204

BOT CHORD 2-17=-1865/4440, 16-17=-1807/4351, 15-16=-2205/5451, 14-15=-1363/3551,

12-14=-1363/3551

**WEBS** 4-17=-227/709, 4-16=-687/1659, 5-16=-632/302, 6-16=-196/334, 6-15=-741/371,

8-15=-977/2158, 8-14=-78/439, 8-12=-3990/1718, 9-12=-382/204, 10-12=-237/343

12-6-10

5-6-10

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=826, 12=1191.



Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

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



Job	Truss	Truss Type	Qty	Ply	BLAKE CONST SHUMAN RES.
0000400	T=0	11 KUP 00 1			T25055102
2902489	T50	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:43 2021 Page 2 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-K9OGhJnKzXxohto\_Lox?Ry4ohSgdDeRMQfFgJzymy4U

### NOTES-

8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 128 lb down and 82 lb up at 7-0-0, 109 lb down and 82 lb up at 9-0-12, 109 lb down and 82 lb up at 11-0-12, 109 lb down and 82 lb up at 13-0-12, 109 lb down and 82 lb up at 15-0-12, 109 lb down and 82 lb up at 17-0-12, 109 lb down and 82 lb up at 19-0-12, 109 lb down and 77 lb up at 21-0-12, 109 lb down and 82 lb up at 23-0-12, 109 lb down and 82 lb up at 25-0-12, 109 lb down and 82 lb up at 27-0-12, 56 lb down and 104 lb up at 29-0-12, 56 lb down and 104 lb up at 31-0-12, and 56 lb down and 104 lb up at 33-0-12, and 46 lb down and 84 lb up at 34-6-4 on top chord, and 332 lb down and 207 lb up at 7-0-0, 85 lb down and 60 lb up at 9-0-12, 85 lb down and 60 lb up at 11-0-12, 85 lb down and 60 lb up at 13-0-12, 85 lb down and 60 lb up at 15-0-12, 85 lb down and 60 lb up at 17-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 60 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 85 lb down and 80 lb up at 21-0-12, 23-0-12, 85 lb down and 60 lb up at 25-0-12, 85 lb down and 60 lb up at 27-0-12, 3 lb down and 61 lb up at 29-0-12, 3 lb down and 61 lb up at 31-0-12, and 3 lb down and 61 lb up at 33-0-12, and 5 lb down and 53 lb up at 34-6-4 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=1.25, Plate Increase=1.25 Uniform Loads (plf)

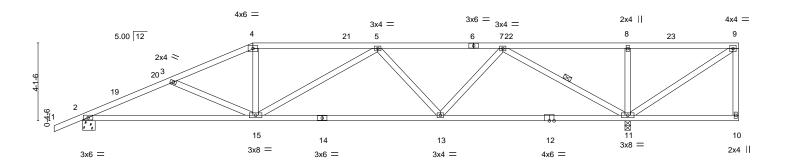
Vert: 1-4=-54, 4-10=-54, 2-11=-20

Concentrated Loads (lb)

Vert: 4=-109(F) 7=-109(F) 10=29(F) 11=37(F) 17=-332(F) 9=34(F) 12=45(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-109(F) 26=-109(F) 27=-109(F) 28=-109(F) 29=34(F) 30=34(F) 31=-65(F) 32=-65(F) 33=-65(F) 34=-65(F) 35=-65(F) 36=-65(F) 37=-65(F) 38=-65(F) 39=-65(F) 41=45(F)

JOD	Truss		Truss Type		Qty	PIY	BLAKE CONST SHUMAN	N KES.	
									T25055103
2902489	T51		Half Hip		1	1			
							Job Reference (optional)		
Builders FirstSource (Lake	City,FL),	Lake City, FL - 33	2055,		8	.430 s Jur	2 2021 MiTek Industries, In	c. Tue Aug 17 12:07:44 202	1 Page 1
		•	ID:PCDxLFEFqc?8hVLoJl8fL1zZ5Cf-oLyeufoykr3fJ1NAvWSE Ad0ss19yCfWeJ DsPymy4						Pymy4T
<sub>1</sub> -1-6-0 <sub>1</sub> 4-9-8		9-0-0	15-7-4	22-2-	8	1	28-9-12	34-8-0	1
1-6-0 4-9-8		4-2-8	6-7-4	6-7-4	1	1	6-7-4	5-10-4	7

Scale = 1:60.9



<u> </u>	9-0-0	18-10-14	28-9-12	28-11-8 34-8-0
	9-0-0	9-10-14	9-10-14	0-1-12 5-8-8
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.45 Vert(LL BC 0.96 Vert(C' WB 0.55 Horz(C Matrix-MS	r) -0.38 11-13 >920 180	PLATES GRIP MT20 244/190  Weight: 175 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-8-0, 11=0-3-8 Max Horz 2=148(LC 12)

Max Uplift 2=-297(LC 12), 11=-405(LC 8)

Max Grav 2=1107(LC 1), 11=1528(LC 1)

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

TOP CHORD 2-3=-2145/579, 3-4=-1852/479, 4-5=-1683/469, 5-7=-1617/404 **BOT CHORD** 2-15=-619/1955. 13-15=-535/1859. 11-13=-331/1202

**WEBS** 3-15=-314/165, 4-15=-49/462, 5-13=-370/200, 7-13=-119/635, 7-11=-1647/462,

8-11=-369/182, 9-11=-284/89

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 9-0-0, Exterior(2R) 9-0-0 to 13-10-13, Interior(1) 13-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 11=405.



Structural wood sheathing directly applied or 3-9-12 oc purlins,

7-11

Rigid ceiling directly applied or 2-2-0 oc bracing.

except end verticals.

1 Row at midpt

MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021



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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055104 2902489 T52 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:44 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-oLyeufoykr3fJ1NAvWSE\_Ad1cs3nyDDWeJ\_DsPymy4T 11-0-0 16-11-4 22-10-8 5-11-4 28-9-12 34-8-0

5-11-4

Scale = 1:60.9

5-10-4

5-11-4

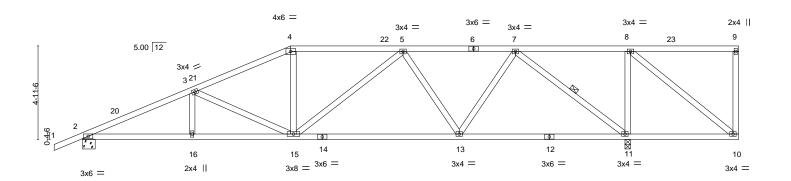
Structural wood sheathing directly applied or 3-9-13 oc purlins,

7-11

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

except end verticals.

1 Row at midpt



	5-9-8 5-9-8	11-0-0 5-2-8	19-10-14 8-10-14		+	28-9-12 8-10-14	28-11-8 34-8-0 0-1-12 5-8-8	
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES PI2014	CSI. TC 0.40 BC 0.79 WB 0.45 Matrix-MS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.14 13-15 -0.30 13-15 0.07 11	l/defl L/d >999 240 >999 180 n/a n/a	PLATES MT20 Weight: 185 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-8-0, 11=0-3-8 Max Horz 2=177(LC 12)

5-9-8

5-2-8

Max Uplift 2=-296(LC 12), 11=-402(LC 8)

Max Grav 2=1107(LC 1), 11=1528(LC 1)

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

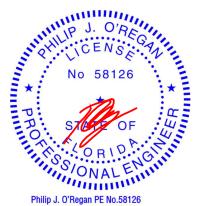
TOP CHORD 2-3=-2146/552, 3-4=-1661/447, 4-5=-1489/440, 5-7=-1238/333 **BOT CHORD** 2-16=-616/1936. 15-16=-616/1936. 13-15=-441/1468. 11-13=-261/891

WFBS

3-15=-504/195, 4-15=-40/389, 5-13=-427/201, 7-13=-133/645, 7-11=-1378/375, 8-11=-516/221, 8-10=-79/263

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 11-0-0, Exterior(2R) 11-0-0 to 15-10-13, Interior(1) 15-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=296, 11=402.



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August 18,2021

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Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055105 T53 2902489 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:45 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-HXW06?paV8CWxByNTDzTXN98VGQxhbSftzknOrymy4S 6-9-8 13-0-0 20-10-14 28-9-12 34-8-0

7-10-14

6-2-8

13-0-0

Scale = 1:60.9

5-10-4

7-10-14

28-9-12

except end verticals.

1 Row at midpt

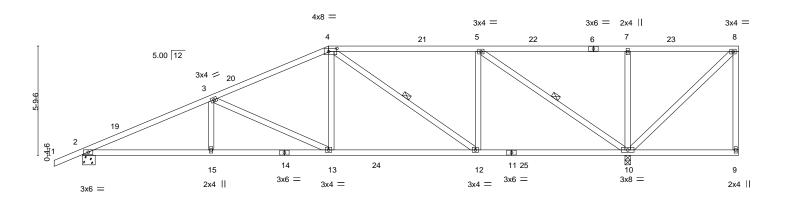
28-11-8

Structural wood sheathing directly applied or 3-5-15 oc purlins,

4-12, 5-10

Rigid ceiling directly applied or 7-5-4 oc bracing.

34-8-0



	6-9-8	6-2-8	1	7-10-14		7-10-	14	0-1-12	5-8-8	
late Offsets (X,Y)	[4:0-5-4,0-2-0]									
_OADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLAT	ES	GRIP
CLL 20.0	Plate Grip DOL	1.25	TC 0.65	Vert(LL)	-0.15 12-13	>999	240	MT20		244/190
CDL 7.0	Lumber DOL	1.25	BC 0.73	Vert(CT)	-0.27 12-13	>999	180			
CLL 0.0 *	Rep Stress Incr	YES	WB 0.77	Horz(CT)	0.08 10	n/a	n/a			
3CDL 10.0	Code FBC2020/	TPI2014	Matrix-MS	, ,				Weigh	t: 190 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

20-10-14

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

2x4 SP No.3 WFBS

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

Max Horz 2=205(LC 12)

6-9-8

Max Uplift 2=-293(LC 12), 10=-397(LC 8) Max Grav 2=1187(LC 2), 10=1677(LC 2)

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

TOP CHORD 2-3=-2287/533, 3-4=-1645/405, 4-5=-1158/308

**BOT CHORD** 2-15=-620/2080, 13-15=-620/2080, 12-13=-408/1480, 10-12=-308/1158 WFBS 3-15=0/260, 3-13=-675/234, 4-13=-54/557, 4-12=-392/122, 5-12=-20/543,

5-10=-1612/389, 7-10=-394/192

### NOTES-

2=293, 10=397.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 13-0-0, Exterior(2R) 13-0-0 to 17-10-13, Interior(1) 17-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)

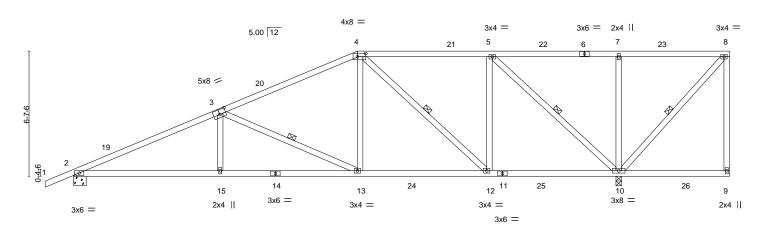


Philip J. O'Regan PE No.58126 MiTek USA, Inc. FL Cert 6634 6904 Parke East Blvd. Tampa FL 33610

August 18,2021

Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055106 T54 2902489 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:46 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-lk4OJLqCGSKNYLWZ0xUi3biKlflxQ4ko6dTKwlymy4R 7-9-0 21-11-12 28-9-12 34-8-0 5-10-4 7-3-0 7-9-0 6-11-12 6-10-0

Scale = 1:60.9



	1	7-9-0	1	7-3-0	ı	6-11-12	1	6-10-0	0-1 <sup>!</sup> -12 5-8-	8 '	
Plate Offs	sets (X,Y)	[3:0-4-0,0-3-0], [4:0-5-4,0	)-2-0]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.15 15-18	>999 240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.27 15-18	>999 180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.07 10	n/a n/a			

21-11-12

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

28-9-12

except end verticals.

1 Row at midpt

28-1<sub>1</sub>1-8

Structural wood sheathing directly applied or 3-4-2 oc purlins,

Rigid ceiling directly applied or 7-4-1 oc bracing.

34-8-0

FT = 20%

Weight: 198 lb

3-13, 4-12, 5-10, 8-10

LUMBER-

**BCDL** 

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

2x4 SP No.3 WFBS

10.0

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

Max Horz 2=234(LC 12)

7-9-0

Max Uplift 2=-290(LC 12), 10=-392(LC 8) Max Grav 2=1181(LC 2), 10=1726(LC 2)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-2225/515, 3-4=-1435/356, 4-5=-868/250

**BOT CHORD** 2-15=-626/2020, 13-15=-625/2027, 12-13=-367/1274, 10-12=-250/868 WFBS 3-15=0/317. 3-13=-837/283. 4-13=-69/613. 4-12=-547/158. 5-12=-65/645.

5-10=-1423/354, 7-10=-364/175, 8-10=-276/63

### NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 15-0-0, Exterior(2R) 15-0-0 to 19-10-13, Interior(1) 19-10-13 to 34-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

15-0-0

Matrix-MS

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 10=392.



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August 18,2021

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

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

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



Job Truss Truss Type Qty Ply BLAKE CONST. - SHUMAN RES. T25055107 2902489 T55 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 17 12:07:47 2021 Page 1 ID:PCDxLFEFgc?8hVLoJl8fL1zZ5Cf-DwemWhqq1mSEAU5lae?xcoFXj32A9XlyKHDtSkymy4Q

22-9-8

5-9-8

28-7-0

5-9-8

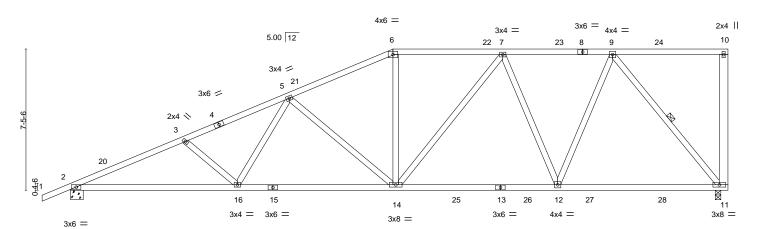
17-0-0

5-5-10

Scale = 1:60.7

34-8-0

6-1-0



	8-9-8	17-0-0	25-8-4	34-3-8 34-8-0
	8-9-8	8-2-8	8-8-4	8-7-4 0-4-8
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.48 BC 1.00 WB 0.69 Matrix-MS	DEFL.         in (loc)         I/defl         L/d           Vert(LL)         -0.23 11-12         >999         240           Vert(CT)         -0.39 11-12         >999         180           Horz(CT)         0.10         11         n/a         n/a	PLATES GRIP MT20 244/190  Weight: 206 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.3 \*Except\* WFBS

10-11: 2x6 SP No.2

6-0-11

6-0-11

11-6-6

5-5-10

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

Max Horz 2=263(LC 12)

Max Uplift 11=-322(LC 8), 2=-335(LC 12)

Max Grav 11=1444(LC 2), 2=1457(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2946/655, 3-5=-2744/596, 5-6=-1924/440, 6-7=-1739/435, 7-9=-1352/276

**BOT CHORD** 2-16=-795/2695, 14-16=-623/2216, 12-14=-371/1554, 11-12=-229/987

WFBS

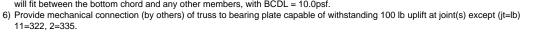
3-16=-318/178, 5-16=-78/555, 5-14=-645/250, 6-14=-33/495, 7-14=-104/298,

7-12=-577/251, 9-12=-190/975, 9-11=-1515/358

### NOTES-

11=322, 2=335.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 17-0-0, Exterior(2R) 17-0-0 to 21-10-13, Interior(1) 21-10-13 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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.



except end verticals.

1 Row at midpt

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

9-11

Rigid ceiling directly applied or 1-4-12 oc bracing.



August 18,2021







23<u>-0-13</u>

27-1-10

4-0-13

19-0-0

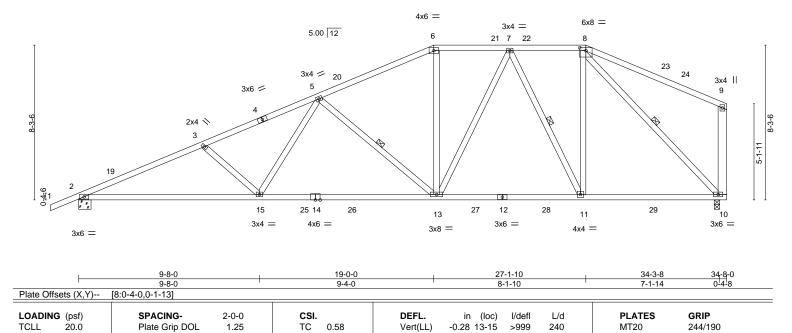
6-1-10

6-1-10

Scale = 1:61.6

34-8-0

7-6-6



Vert(CT)

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

**WEBS** 

-0.48 13-15

10

0.09

>855

except end verticals.

1 Row at midpt

n/a

180

n/a

Rigid ceiling directly applied or 2-2-0 oc bracing.

Structural wood sheathing directly applied or 2-10-6 oc purlins,

5-13, 7-11, 8-10

LUMBER-

TCDL

**BCLL** 

BCDL

TOP CHORD 2x4 SP No.2

7.0

0.0

10.0

**BOT CHORD** 2x4 SP No.2 \*Except\* 2-14: 2x4 SP M 31 WFBS

2x4 SP No.3 \*Except\* 9-10: 2x6 SP No.2

REACTIONS. (size) 2=0-8-0, 10=0-3-8 Max Horz 2=232(LC 12)

6-8-11

6-8-11

Max Uplift 2=-329(LC 12), 10=-228(LC 13)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

Max Grav 2=1479(LC 2), 10=1458(LC 2)

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

 $2\text{-}3\text{--}2968/629,\ 3\text{-}5\text{--}2750/565,\ 5\text{-}6\text{--}1760/385,\ 6\text{-}7\text{--}1578/386,\ 7\text{-}8\text{--}1111/276}$ TOP CHORD BOT CHORD  $2\text{-}15\text{=-}735/2711,\ 13\text{-}15\text{=-}540/2143,\ 11\text{-}13\text{=-}268/1384,\ 10\text{-}11\text{=-}184/1095}$ WEBS

1.25

YES

3-15=-356/200, 5-15=-92/682, 5-13=-757/283, 6-13=-38/441, 7-13=-131/463, 7-11=-664/204, 8-11=-135/948, 8-10=-1553/252

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-11-10, Interior(1) 1-11-10 to 19-0-0. Exterior(2R) 19-0-0 to 23-10-13, Interior(1) 23-10-13 to 27-1-10, Exterior(2R) 27-1-10 to 32-0-7, Interior(1) 32-0-7 to 34-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

вс

WB

Matrix-MS

0.98

0.90

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=329, 10=228.



Weight: 211 lb

FT = 20%

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

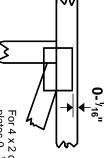


### Symbols

# 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- <sup>1</sup>/16" from outside edge of truss.

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

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

### PLATE SIZE

4 × 4

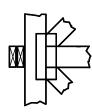
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



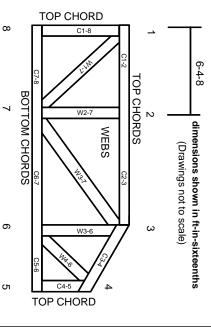
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### Industry Standards:

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

ANSI/TPI1: DSB-89:

## **Numbering System**



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

# **General Safety Notes**

# Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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

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