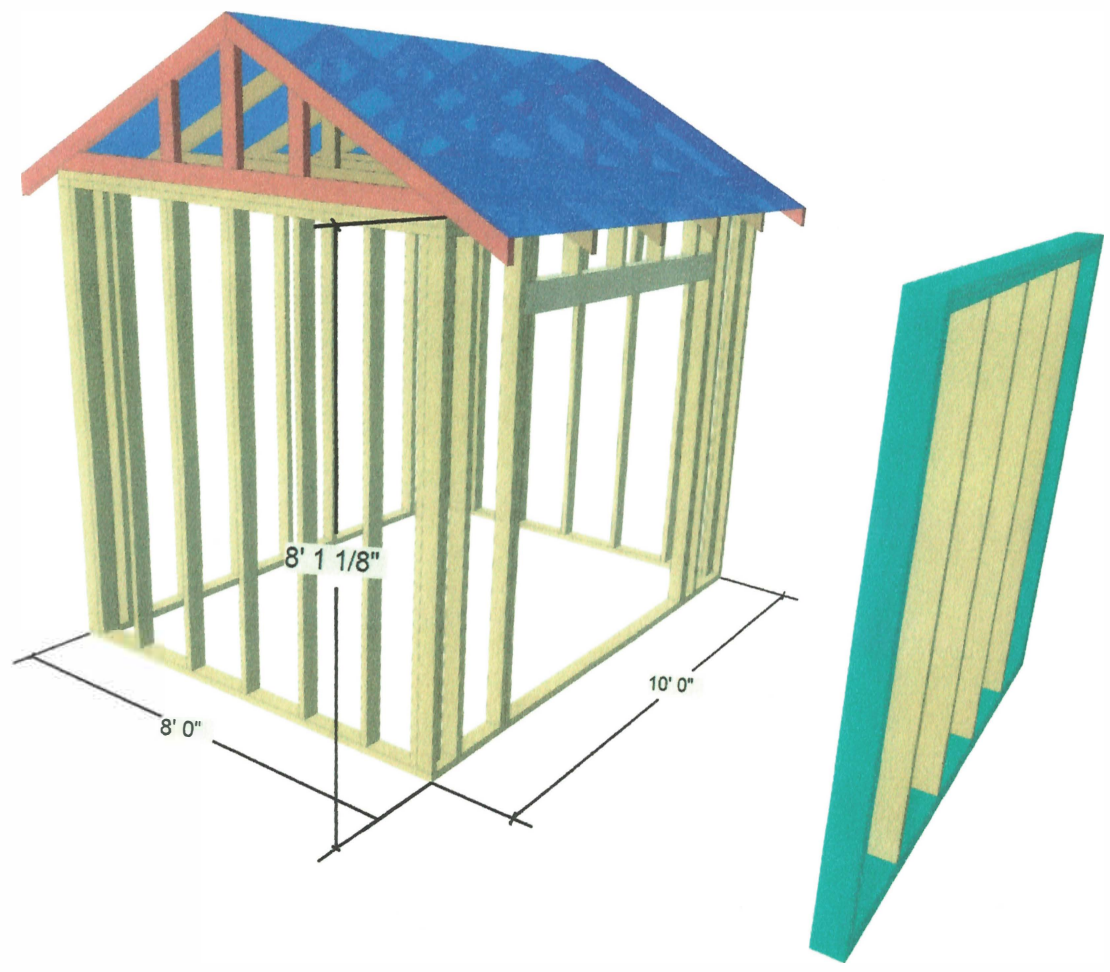


# Builders<sup>®</sup> FirstSource



## 8x10 Storage Shed



**CAREERS**  **CONSTRUCTION**

Level: 1st Floor

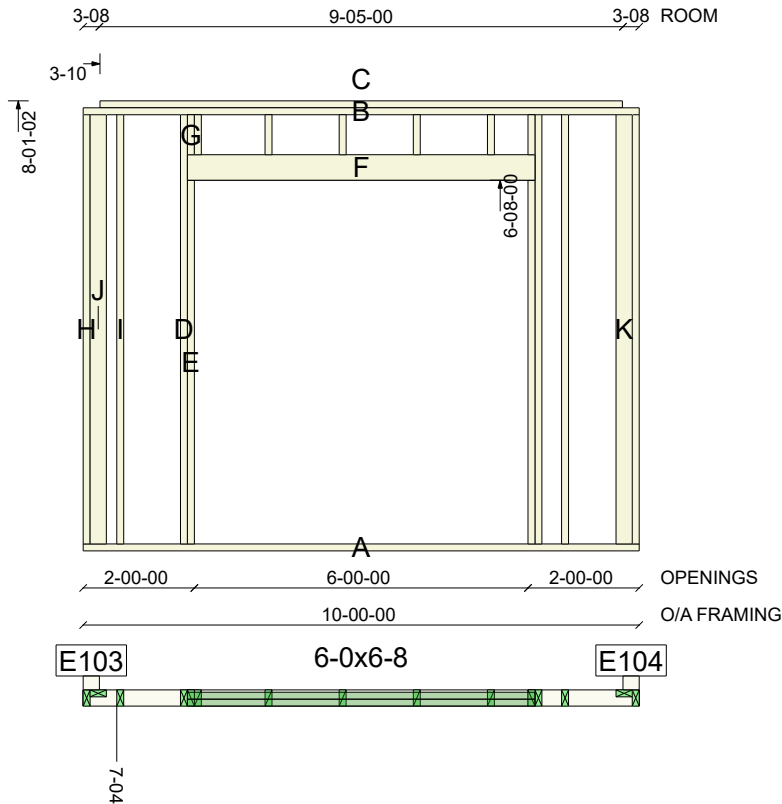
Bundle: <None>

Panel: E101

Stud Spacing	BF	Weight
1-04-00	93	173.00 lb

### Cutting List

Lbl	Member	Description	Qty	Length	Width
A	Bottom Plate	2x4 DF No.2	(1)	10-00-00	1-08
B	Top Plate	2x4 DF No.2	(1)	10-00-00	1-08
C	VTP	2x4 DF No.2	(1)	9-04-12	1-08
D	King Stud	2x4 DF No.2	(2)	7-08-10	1-08
E	Trimmer	2x4 DF No.2	(2)	6-06-08	1-08
F	Header	2x6 DF No.2	(2)	6-03-00	5-08
G	Header Cripple	2x4 DF No.2	(7)	8-10	1-08
H	Stud	2x4 DF No.2	(1)	7-08-10	1-08
I	Stud	2x4 DF Stud	(3)	7-08-10	1-08
J	Flat Stud	2x4 HF No.2	(1)	7-08-10	3-08
K	Flat Stud	2x4 DF Stud	(1)	7-08-10	3-08



# E101



# Job: CTE Shed 10x12 with 6ft side door

Builder: CTE Shed

Sub: Shed 1

Lots: 1

Square Footage: 120 SF

# Elevation Report

Page: 2 of 5

Date: 10/01/2024 16:29:32

Level: 1st Floor

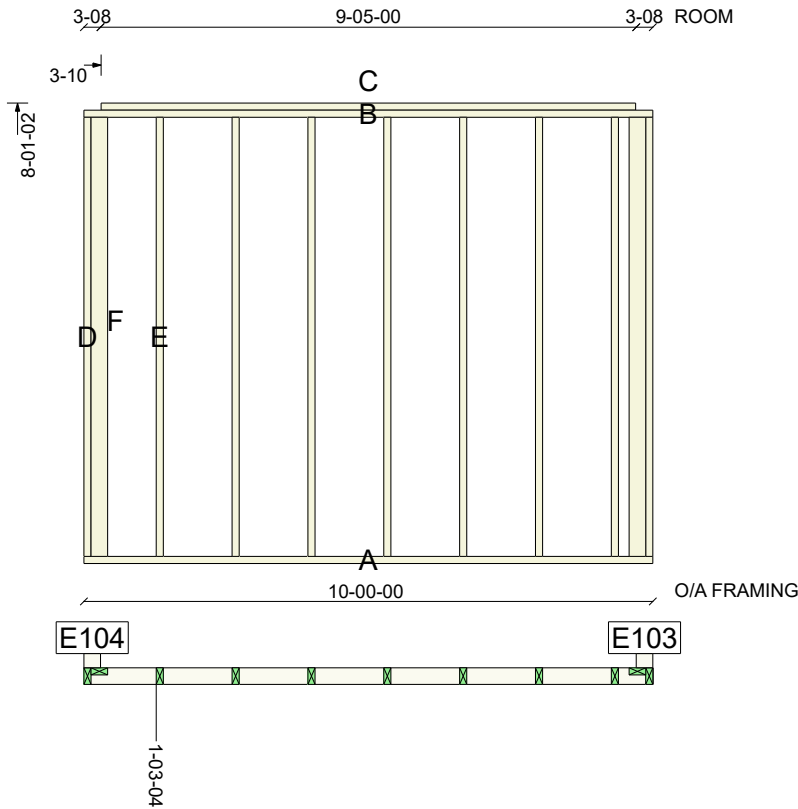
Bundle: <None>

Panel: E102

Stud Spacing	BF	Weight
1-04-00	67	152.00 lb

### Cutting List

Lbl	Member	Description	Qty	Length	Width
A	Bottom Plate	2x4 DF No.2	(1)	10-00-00	1-08
B	Top Plate	2x4 DF No.2	(1)	10-00-00	1-08
C	VTP	2x4 DF No.2	(1)	9-04-12	1-08
D	Stud	2x4 DF No.2	(2)	7-08-10	1-08
E	Stud	2x4 DF Stud	(7)	7-08-10	1-08
F	Flat Stud	2x4 HF No.2	(2)	7-08-10	3-08



# E102



# Job: CTE Shed 10x12 with 6ft side door

Builder: CTE Shed

Sub: Shed 1

Lots: 1

Square Footage: 120 SF

# Elevation Report

Page: 3 of 5

Date: 10/01/2024 16:29:32

Level: 1st Floor

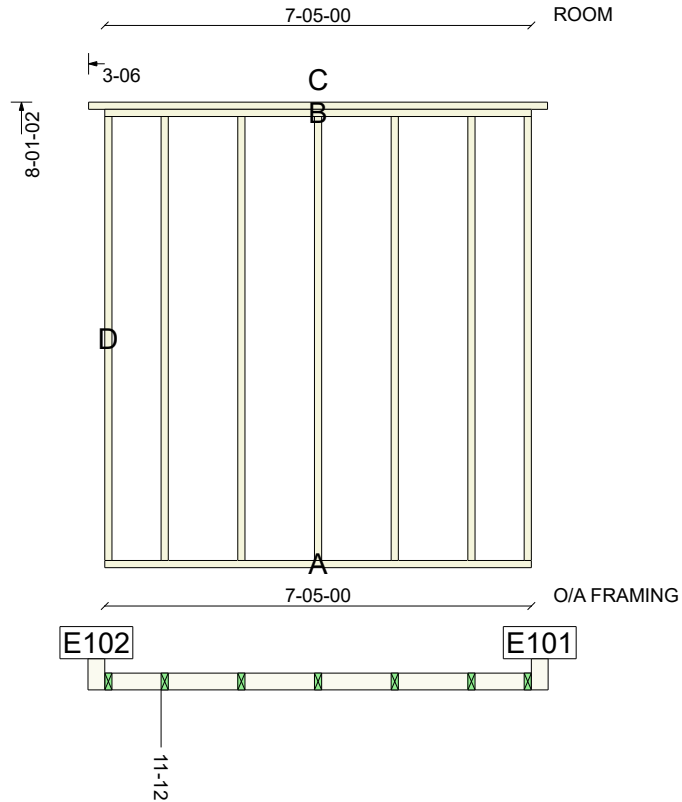
Bundle: <None>

Panel: E103

Stud Spacing	BF	Weight
1-04-00	52	104.00 lb

### Cutting List

Lbl	Member	Description	Qty	Length	Width
A	Bottom Plate	2x4 DF No.2	(1)	7-05-00	1-08
B	Top Plate	2x4 DF No.2	(1)	7-05-00	1-08
C	VTP	2x4 DF No.2	(1)	7-11-12	1-08
D	Stud	2x4 DF Stud	(7)	7-08-10	1-08



# E103



# Job: CTE Shed 10x12 with 6ft side door

Builder: CTE Shed

Sub: Shed 1

Lots: 1

Square Footage: 120 SF

# Elevation Report

Page: 4 of 5

Date: 10/01/2024 16:29:32

Level: 1st Floor

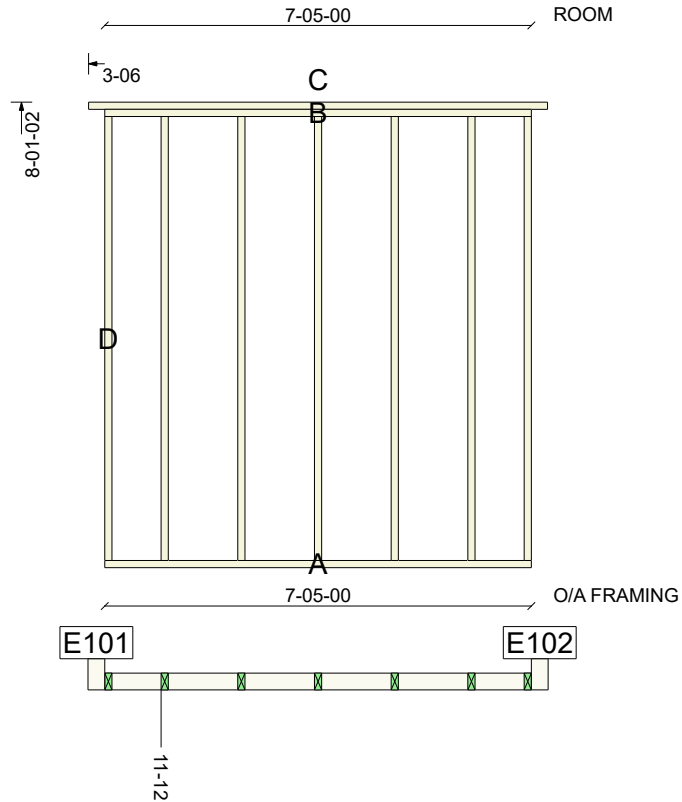
Bundle: <None>

Panel: E104

Stud Spacing	BF	Weight
1-04-00	52	104.00 lb

### Cutting List

Lbl	Member	Description	Qty	Length	Width
A	Bottom Plate	2x4 DF No.2	(1)	7-05-00	1-08
B	Top Plate	2x4 DF No.2	(1)	7-05-00	1-08
C	VTP	2x4 DF No.2	(1)	7-11-12	1-08
D	Stud	2x4 DF Stud	(7)	7-08-10	1-08



# E104

Level: 1st Floor

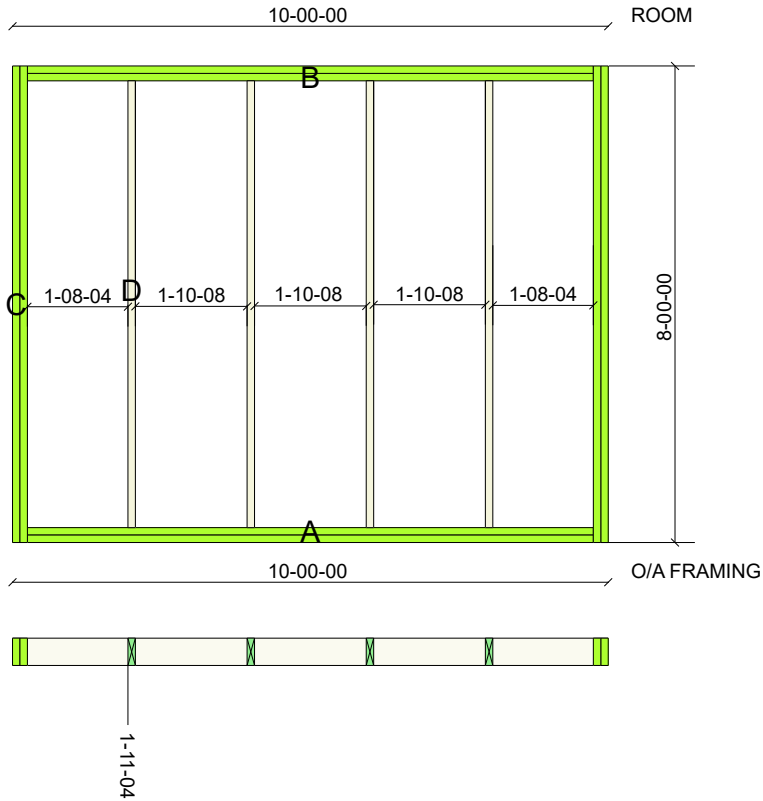
Bundle: <None>

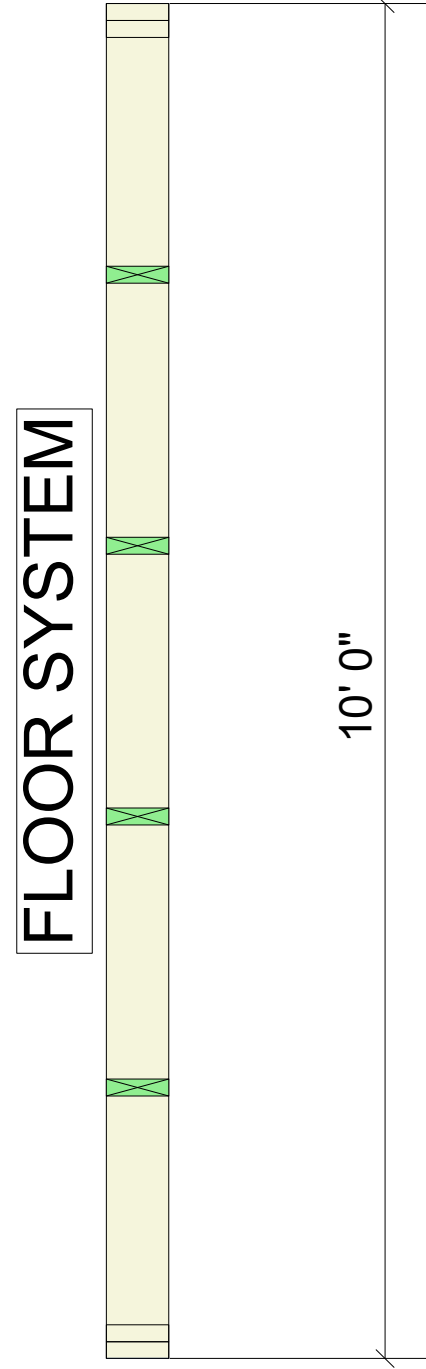
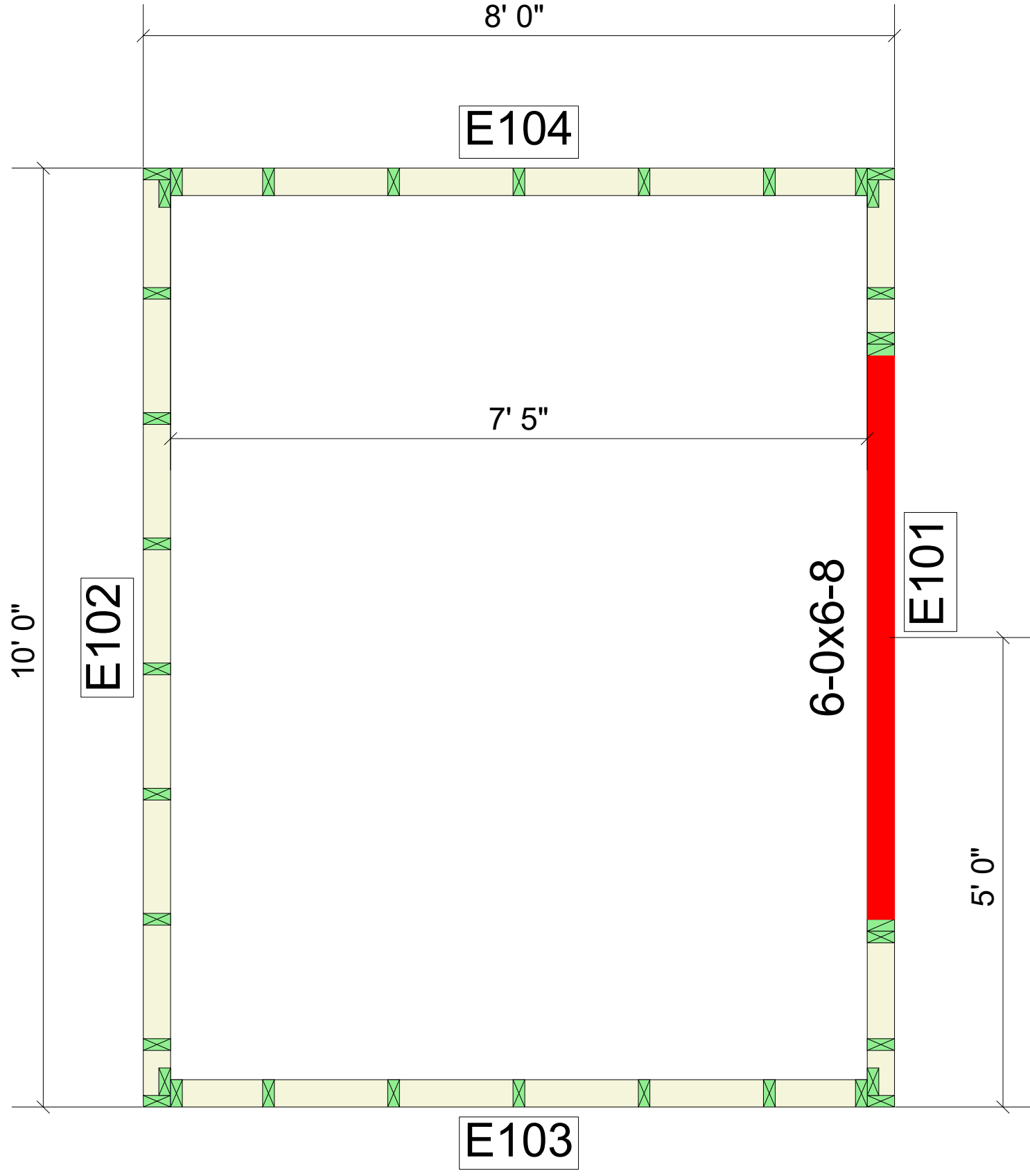
Panel: FLOOR SYSTEM

Stud Spacing	BF	Weight
2-00-00	104	213.00 lb

Cutting List

Lbl	Member	Description	Qty	Length	Width
A	Bottom Plate	2x6 DF No.2	(2)	9-06-00	1-08
B	Top Plate	2x6 DF No.2	(2)	9-06-00	1-08
C	Stud	2x6 DF No.2	(4)	8-00-00	1-08
D	Stud	2x6 DF No.2	(4)	7-06-00	1-08





### READY-FRAME PLACEMENT LAYOUT

Puget Sound Market Ready-Frame

DATE: 10/1/2024 SCALE: NTS



BUILDER: CTE Shed

PLAT & LOT: Shed 1 1

PLAN TYPE: 120 SF - First Floor

APPWRIGHT / MBA #:

Square Footage:

Please contact Eli Creamer with any comments, concerns, or questions (971)930-6140

THIS IS A READY FRAME PLACEMENT DIAGRAM ONLY. These Ready Frame panels are designed as individual building components to be incorporated into the building design at the specification of the building designer. See the individual design sheets for each panel design identified on the placement drawing

Re: 4246685

CTE Shed - 8x10 Shed

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

Pages or sheets covered by this seal: R84515516 thru R84515517

My license renewal date for the state of Washington is April 30, 2025.



September 24, 2024

Reinmuth, Dustin

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

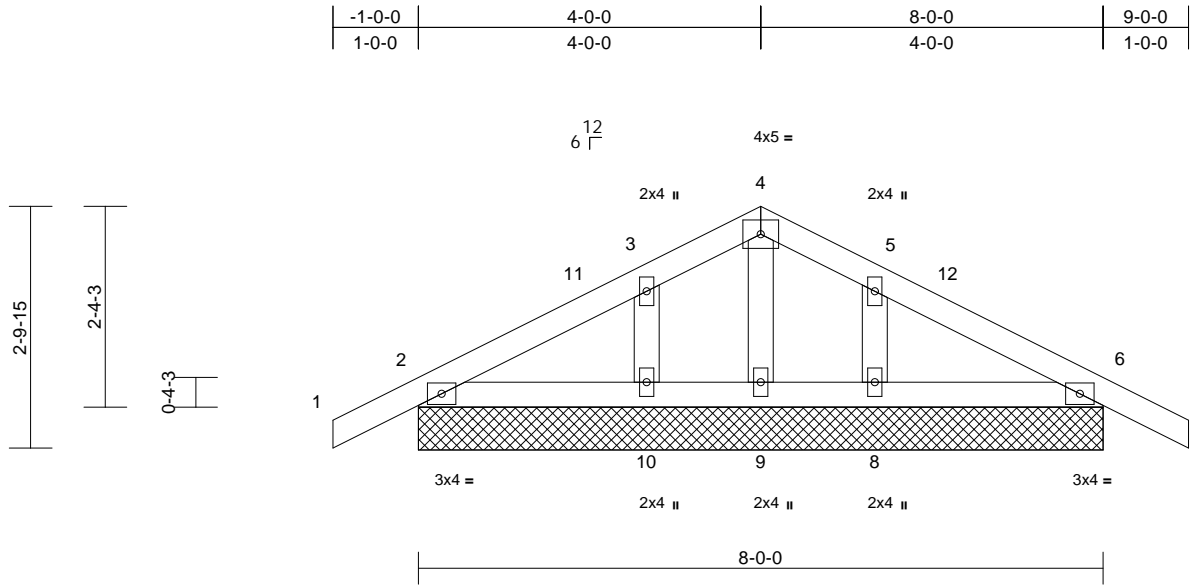


Job 4246685	Truss A01	Truss Type Common Supported Gable	Qty 2	Ply 1	CTE Shed - 8x10 Shed Job Reference (optional)	R84515516
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Tue Sep 24 10:25:33  
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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	7.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 32 lb	FT = 10%

**LUMBER**  
TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF No.1&Btr  
OTHERS 2x4 DF No.2

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

**REACTIONS** (size) 2=8-0-0, 6=8-0-0, 8=8-0-0, 9=8-0-0, 10=8-0-0  
Max Horiz 2=46 (LC 16)  
Max Uplift 2=-50 (LC 16), 6=-59 (LC 17), 8=-75 (LC 17), 10=-76 (LC 16)  
Max Grav 2=268 (LC 23), 6=268 (LC 24), 8=304 (LC 24), 9=48 (LC 29), 10=304 (LC 23)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/44, 2-3=-68/59, 3-4=-51/128, 4-5=-51/129, 5-6=-68/59, 6-7=0/44  
BOT CHORD 2-10=-23/91, 9-10=-23/91, 8-9=-23/91, 6-8=-23/91  
WEBS 4-9=-62/14, 3-10=-243/206, 5-8=-243/206

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 4-0-0, Corner(3R) 4-0-0 to 7-0-0, Exterior(2N) 7-0-0 to 9-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1'-4" oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-06"-00 tall by 2'-00"-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 2, 59 lb uplift at joint 6, 76 lb uplift at joint 10 and 75 lb uplift at joint 8.

**LOAD CASE(S)** Standard



September 24, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

**MiTek®**

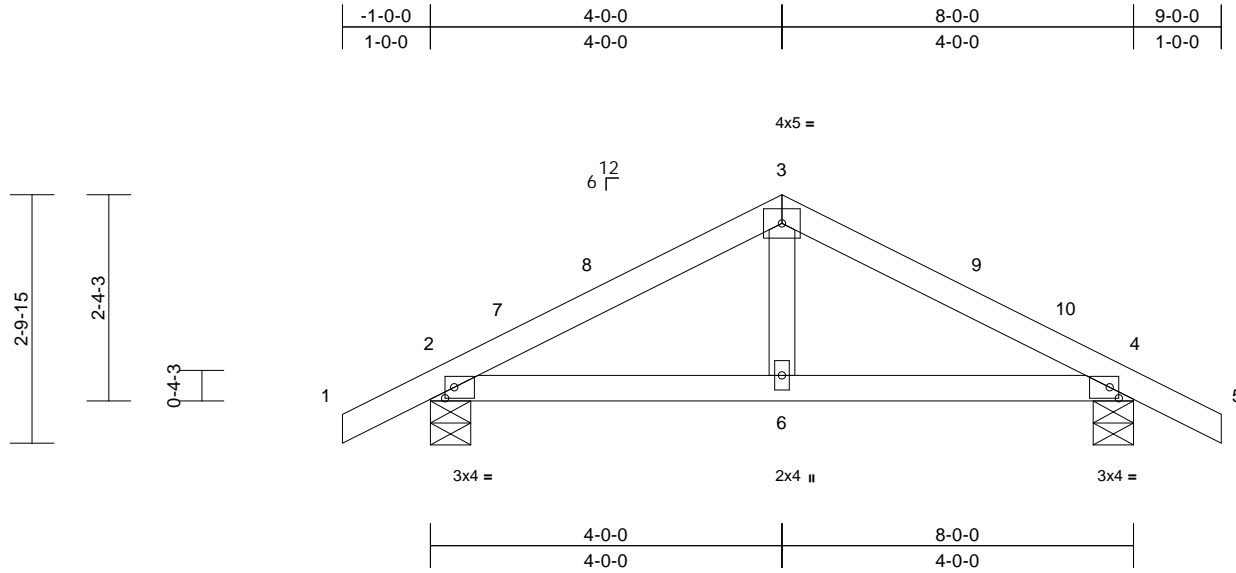
400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

Job 4246685	Truss A02	Truss Type Common	Qty 4	Ply 1	CTE Shed - 8x10 Shed Job Reference (optional)	R84515517
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Builders FirstSource (Beaverton, OR), Beaverton, OR - 97005,

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ID:0kExJdmqGPENwTjoZvQUxOyaS46-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:26.2

Plate Offsets (X, Y): [2:0-1-4,0-1-8], [4:0-1-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	2-6	>999	240	MT20	220/195
Snow (Pf)	25.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	2-6	>999	180		
TCDL	7.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-SH								
BCDL	10.0											
											Weight: 29 lb	FT = 10%

**LUMBER**

TOP CHORD 2x4 DF No.1&Btr  
BOT CHORD 2x4 DF No.1&Btr  
WEBS 2x4 DF No.2

**BRACING**

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

**REACTIONS**

(size) 2=0-5-8, 4=0-5-8  
Max Horiz 2=46 (LC 20)  
Max Uplift 2=-98 (LC 16), 4=-98 (LC 17)  
Max Grav 2=535 (LC 23), 4=535 (LC 24)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/45, 2-3=-464/214, 3-4=-464/213, 4-5=0/45  
BOT CHORD 2-6=-75/318, 4-6=-75/318  
WEBS 3-6=0/172

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=140mph (3-second gust) Vasd=111mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior (1) 7-0-0 to 9-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.

- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 25.0 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 2 and 98 lb uplift at joint 4.

**LOAD CASE(S)** Standard



September 24, 2024

**WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

**MiTek®**

400 Sunrise Ave., Suite 270  
Roseville, CA 95661  
916.755.3571 / MiTek-US.com

# Symbols

## PLATE LOCATION AND ORIENTATION



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



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



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

\* Plate location details available in MITtek software or upon request.

## PLATE SIZE

4 X 4

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

## LATERAL BRACING LOCATION



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

## BEARING

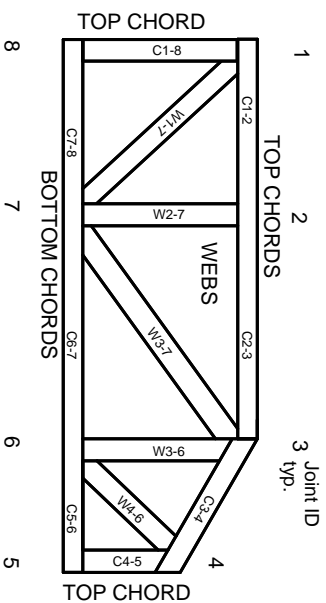


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TFP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-22: Design Standard for Bracing.  
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



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

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

## Product Code Approvals

ICC-ES Reports:

ESR-1-1988, ESR-2-362, ESR-2-685, ESR-3-282  
ESR-4-722, ESL-1-388

## Design General Notes

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

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

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# General Safety Notes

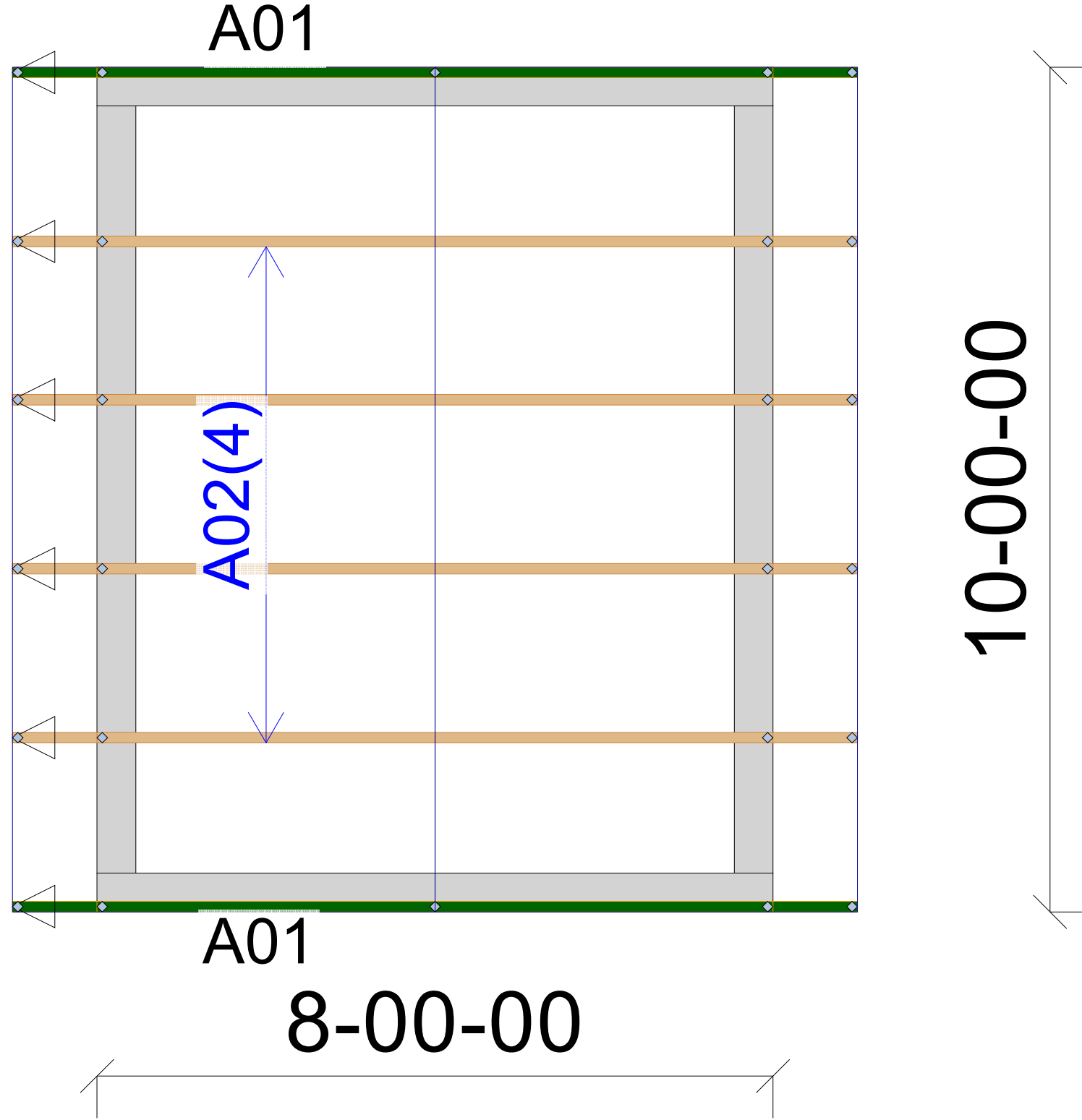
## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability/bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TFP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TFP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TFP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

# MITek®

MITtek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023

TRIANGLE SHAPE ▲ INDICATES LEFT END ON LAYOUT AND TRUSS DRAWING ON STAMPED ENGINEERING PAGE



TC LL = 25  
 TC DL = 7  
 BC LL = 0  
 BC DL = 10  
 Total Load = 42  
 Wind Speed = 140 Mph  
 Exposure = B  
 Roof pitch = 6/12  
 Overhang = 12"

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See the individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of wood trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179

DO NOT CUT, DRILL, NOTCH OR MODIFY TRUSS MEMBERS WITHOUT PRIOR APPROVAL FROM BUILDERS FIRSTSOURCE TRUSS

SW Washington and Oregon Components  
 Woodland Office: 360-841-5900  
 Beaverton Office: 971-371-5971

**Builders**  
**FirstSource**

BUILDER: CTE Shed

PROJECT: 8' x 10' Shed

ADDRESS: WA

DATE: 9/24/2024

SALESMAN: Vince Rogers

DESIGNER: Tyler Campbell

SCALE: NTS

PROJECT #: 4246685

Jurisdiction Stamp

# Standing Seam Metal Roof Layout

SK16\_P 16" Skyline Roofing® Standard  
Stiffening Ribs 26G Cool Matte Black Dura  
Tech® XL  
**16 @ 5' 8"**

5 ' 8 "

5 ' 8 "

R16\_P Hip/Ridge 26G Cool Matte Black Dura  
Tech® XL 127 deg: **1-EA**

5 ' 8 "

5 ' 8 "

Z17\_26\_BARE Solid Zee Closure 26G  
ZINCALUME: **2-EA**

5 ' 8 "

5 ' 8 "

E17\_P Wide Eave 26G Cool Matte Black Dura  
Tech® XL 117 deg: **2-EA**

5 ' 8 "

5 ' 8 "

G17\_P Standard Gable G17 26G Cool Matte  
Black Dura Tech® XL: **5-EA**

5 ' 8 "

5 ' 8 "

WS14X1\_MBK 14X1 WOODSCREW MATTE  
BLK (100CT): **2-EA**

5 ' 8 "

5 ' 8 "

WS9X1\_MBK 9X1 WOODSCREW MATTE  
BLK (100CT): **1-EA**

5 ' 8 "

5 ' 8 "

WS10X1PH 10X1 WOODSCREW #2 SQ  
PANCAKE BARE (100CT): **2-EA**

5 ' 8 "

5 ' 8 "

ST12X3/4\_MBK 12X3/4 STITCH SCREW  
MATTE BLK (100CT): **1-EA**

CLSK16 16" SKYLINE CLOSURE (32") POLY  
(4/PAC): **2-EA**

MAS3/3245 3/8" x 3/32" x 45' BUTYL MASTIC  
TAPE: **2-EA**

PPMBK .75 OZ TOUCH-UP PAINT PEN  
MATTE BLK: **1-EA**

ASC Skyline Panel Matte Black