County of River and Every at Minister a States 4080 Lern on St. 911, Prevaile. Ca. 82802 Rivers del, CA. 92, APPROVED RIVERS del CA. 94, APPROVED RIVERS del CA. 94, APPROVED ST. 9

BRS2200279 Truss Approved.pdf 05/24/23 Page 1 of 57

Notes:

- 1) Builder shall verify all dimensions prior to fabrication.
- 2) Installation and bracing is the responsibility of the builder. Read and follow all instructions given.
- 3) All beams shall be provided by others.
- 4) 2x6 bearing walls (min uno)
- 5) See attached hanger sheet for hanger call outs.

Trusses prefabricated per C.B.C., I.B.C., and ANSI National Standard latest revision.

Quality audited by: Timber Products Inspection

See ICC ESR-1311 for truss connector plates

Scale: 3/32" = 1'

Last updated: 04/11/23

11-00-00	 10-00-00
۶ ₇	24" OVERHANG (TYP)
00-00-8 M7 M8 M9 M9 J4	J2 M1 M1 M2 M3 M4 00
G3 G2 G2 G2 G1 J3 P5 P4 P4 P2 P1 SJ J3 SJ P1 SJ P1	M4 M5 M5 M4 M3 M2 M1 00-00-8
21-01-00 P	C69263 Exp. 06/30/24 REVIEWED AND APPROVED



T SS	Customer: J.A. Russo	Job Name: Anaya - 023	Building Code: IBC 2021 / TPI 2014
0	Site Address: 13050 Via Verrazano	Roof Pitch: 4:12	Roof Type: Tile
ט	City, ST, ZIP: Riverside, CA	Top Chord Size: 2x4	Designer: Mike Lutz

Job: Russo - Anaya/023

HANGER SCHEDULE

("SIMPSON" HANGERS)

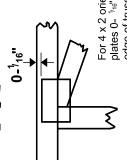
CARRIED TRUSS (ES)	BEARING TRUSS	QTY.	"SIMPSON" HANGER	COMMENTS	REACTION LOAD
G1	A1	1	HHUS28-2		2022
G2	A1	2	HTU26		992
G3	A1	1	HHUS28-2		2369
J4	M9	5	LUS24		516
M1	A6	2	HTU26		974
M2	A6	2	LUS26		579
M3	A6	2	LUS26		552
M4	A6	2	LUS26		556
M5	A6	2	LUS26		556
M6	A1	1	HTU26		1219
M7	A1	1	LUS26		501
M8	A1	1	LUS26		475
M9	A1	1	HHUS28-2		1400
JD1	G3	1	LUS24		477
JD2	G1	1	LUS24		462
				+	

Symbols

PLATE LOCATION AND ORIENTATION



Dimensions are in ft-in-sixteenths. Center plate on joint unless x, y offsets are indicated.



edge of truss.

required direction of slots in This symbol indicates the 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



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

BEARING



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

Industry Standards:

Plate Connected Wood Truss Construction.

Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses. DSB-89: BCSI:

Design Standard for Bracing. Building Component Safety Information, ANSI/TPI1: National Design Specification for Metal

Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate plates 0- 1/16" from outside

ТОР СНОЯВ

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

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

Numbering System

dimensions shown in ft-in-sixteenths

6-4-8

(Drawings not to scale)

က

TOP CHORDS

WEBS

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.
- wide truss spacing, individual lateral braces themselves Truss bracing must be designed by an engineer. For may require bracing, or alternative Tor I bracing should be considered. 7
- Never exceed the design loading shown and never stack materials on inadequately braced trusses. က

тор снокр

- 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.

2

2

9

BOTTOM CHORDS

- joint and embed fully. Knots and wane at joint Place plates on each face of truss at each locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1. ۲.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication. œ.
- 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.
- 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
- 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.
- Install and load vertically unless indicated otherwise.
- environmental, health or performance risks. Consult with 18. Use of green or treated lumber may pose unacceptable
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.

Plate Offsets (X, Y): [6:0-3-7,0-2-8], [10:0-1-2,0-0-5], [13:0-3-0,0-0-0], [17:0-2-12,0-1-3], [18:0-5-4,0-2-3]

Weight: 193 lb FT = 20% GRIP 244/190 MiTeck recommends that Stabilizers and required cross bracing be installed during truss erection. in accordance with Stabilizer Installation guide. PLATES MT20 Structural wood sheathing directly applied or 2-2-0 oc purlins. 27 Rigid ceiling directly applied or 1-4-12 oc bracing. 1 row at midpoint 5-15 L/d 240 180 n/a //defl >996 >341 n/a (loc) 12-14 15-17 10 Vert(LL) Vert(TL) Horz(TL) BRACING TOP CHORD BOT CHORD **26** WEBS <u></u> 0.84 1.00 0.85 CSI TC BC WB (Matrix) 32 25 (min. 0-2-1), 10=1417/0-3-8 (min. 0-1-8) SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IBC2006/TPI2002 31 (lbs/size) 18=1740/0-3-8 (min. 0-2-1), 1 Max Horz 18=-196(LC 7) Max Uplift 18=-63(LC 9), 10=-30(LC9) 2x4 SP No.2 *Except* T5: 2x4 SP No.1 2x4 SP No.2 *Except* B5: 2x4 SP No.1 2x4 SP No.3 *E; W7: 2x4 SP No.3 7 LOADING (psf)
TCLL 20.0
TCDL 10.0
BCLL 0.0
BCDL 10.0 TOP CHORD REACTIONS BOT CHORD

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

TOP CHORD 1+2=-198/456, 2-3=-245/545, 3-4=-2012/0, 4-5=1896/0, 5-20=-1899/0, 6-20=-1770/0, 6-21=-3060/0, 7-8=-4287/0, 8-9=-4379/0, 9-22=-4595/0, 10-22=-4699/0

1-19=-394/201, 18-19=-402/211, 17-18=-511/288, 16-17=-511/288, 16-17=0/1658, 15-16=0/1693, 14-15=0/2999, 13-14=0/336, 12-13=0/3318, 10-12=0/4180 3-18=-1603/163, 3-17=-22/2049, 5-17=-372/127, 6-15=0/2474, 7-14=-624/141, 7-12=-26/842, 9-12=-271/129 BOT CHORD WEBS

33

Unbalanced roof live loads have been considered for this design.
Wind: ASCE 7-05; 90mph; TCDL=6.0psf, BCDL=6.0psf, h=25ft; B=45ft; L=38ft, eave=5ft; Cat. II; Exp B; enclosed; MWFRS (all heights) and C-C Exterior(2) 0-0-0 to 4-0-0, Interior (1) 4-0-0 19-0-0. Exterior(2) 19-0-0 to 22-9-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

*This truss has been designed for a live load of 20.0 psf 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) 3)

Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 18 and 30 lb uplift at joint 10.

referenced standard ANSI/TPI 1. sign of this truss This truss is designed to accordance with the 2006 International Building Code section 2306.1 and "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and de

35

LOAD CASE(S) Standard

www.mitek-us.com

Tech Support 1-866-MITEK-TS (1-866-648-3587)

Reading a MiTek Engineering Drawing

- Job name
 - Truss label
- **Truss type**

EXAMPLE ON

- Truss quantity
- Number of plies 2
- Job description
- Software version
- Cumulated dimensions of top chord panel lengths are added together along the top chord of truss (feet-inches-sixteenths)
- Panel lengths of the top chord each section represents the horizontal distance between the centerline of two consecutive panel points along the top chord (feet-inches-sixteenths) **8**p
 - Drawing scale of the truss
- Top chord slope inches of vertical rise for each 12 inches of horizontal run
- Top chord member label (if shown) identification label used to distinguish pieces
- **Truss height** the height of the truss from the top of the bearing to the top of the top chord (trusses with multiple levels of top chord will have multiple truss height dimensions) (feet-inches-sixteenths) 42
- Plate size, orientation and type plate size in inches. The two lines denotes the direction of the plate 3
 - Continuous lateral bracing location 4
- Web member label (if shown) 15
- Heel height the height from the top of bearing to the top of the top chord at the outside edge of the bearing (feet-inches-sixteenths)
- Bottom chord slope inches of vertical rise for each 12 inches of horizontal run
- Bearing a structural support, usually a wall or beam that is designated to carry the truss reaction loads to the foundation
- 19a Cumulated dimensions of bottom chord panel lengths are added together along the bottom chord of truss (feet-inches-sixteenths)
- 19b Panel lengths of the bottom chord each section represents the horizontal distance between the centerline of two consecutive panel points along the bottom chord (feet-inches-sixteenths)
- Plate offsets (X, Y) this section lists any horizontal and/or vertical plate offsets (in inches) and the location they occur 20
- Design loading (PSF-pounds per square foot) 21
 - Spacing on center feet-inches-sixteenths 22
 - Design code / Design standard
- Duration of Load for plate and lumber design and Repetitive Use Factor
- CSI maximum Combined Stress Index for top chords, bottom chords and webs 23 24 25 26
- Deflection- maximum deflection expected in a member (inches), Location of maximum deflection, maximum Span to deflection ratio expected in a member
- Span to deflection ratios input allowables 27
- MiTek plate allowables (PSI) / estimated truss weight / fabrication tolerance 28
 - Lumber requirements 29
- Required bracing for all members 30

34

- Reaction (pounds), Bearing size input and minimum required (if shown) 31
 - Maximum Uplift and/or Maximum Horizontal Reaction if applicable and Maximum Gravity if shown 32
- Maximum member forces Tension (+), Compression (-) 33
 - 34
- Additional loads / load cases

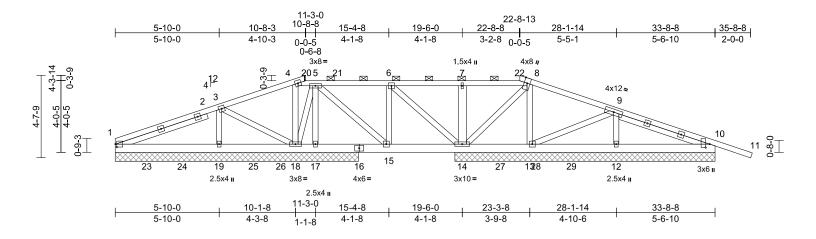


Job Truss uss Type BRS2200279 Truss Approved.pdf Russo - 023 05/24/23 Page 5 of 57 R75640030 230109-A California Girder A1 1 Job Reference (optional)

Brown & Erown & From the Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:02 ID:8z7wsZXhPZ3Pha6RRT5cwgzSoYy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:64.8

Plate Offsets (X, Y): [1:0-0-15,0-2-0], [10:0-2-5,0-2-12]												
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.14	Vert(LL)	0.02	12-13	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.29	Vert(CT)	-0.05	12-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 411 lb	FT = 20%

LUMBER TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X6 DF SS G WEBS

2X4 DF Std G *Except* 7-14:2X6 DF SS G **SLIDER** Left 2x4 DF No 1&Btr G-- 5-4-15, Right 2x4 DF No.1&Btr G-- 5-4-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max): 4-8

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

1=13-8-0, 10=14-7-8, 12=14-7-8, 13=14-7-8, 14=14-7-8, 17=13-8-0,

18=13-8-0, 19=13-8-0

Max Horiz 1=-69 (LC 23)

1=-212 (LC 27), 10=-310 (LC 28), Max Uplift

12=-288 (LC 28), 13=-367 (LC 28), 14=-358 (LC 28), 17=-580 (LC 19),

18=-697 (LC 27), 19=-702 (LC 27) 1=330 (LC 32), 10=351 (LC 47), Max Grav

12=1094 (LC 1), 13=1899 (LC 1), 14=2041 (LC 40), 17=1825 (LC 40), 18=2571 (LC 39), 19=3253

(LC 39)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-512/510. 3-4=-321/368. 4-5=-26/125. TOP CHORD

5-6=-362/348, 6-7=-190/270, 7-8=-224/303, 8-9=-396/411, 9-10=-555/516, 10-11=0/27

1-19=-437/496, 18-19=-158/195, **BOT CHORD**

17-18=-128/199, 15-17=-215/286, 14-15=-189/383, 13-14=-157/246, 12-13=-136/191, 10-12=-460/520

WEBS

3-19=-314/251, 5-17=-232/46, 7-14=-295/92, 4-18=-144/42, 8-13=-260/208,

9-13=-266/294, 9-12=-355/251, 3-18=-286/297, 5-18=-277/224,

8-14=-309/305, 6-14=-474/350

6-15=-182/230, 5-15=-287/430

NOTES

2-ply truss to be connected together with 16d (0.162"x 1) 3.5") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc clinched.

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

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B),

unless otherwise indicated. Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

All plates are 4x4 MT20 unless otherwise indicated.

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

A plate rating reduction of 20% has been applied for the green lumber members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 1, 702 lb uplift at joint 19, 580 lb uplift at joint 17, 358 lb uplift at joint 14, 697 lb uplift at joint 18, 367 lb uplift at joint 13, 288 lb uplift at joint 12 and 310 lb uplift at joint 10.
- 11) This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 33-8-8 for 59.3 plf.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 10,2023

Continued on page 2

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 properly and properly diagnees. 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 BRS2200279 Truss Approved.pdf Russo - 023 Page 6 of 57 R75640030 230109-A A1 California Girder 1 Job Reference (optional)

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:02 ID:8z7wsZXhPZ3Pha6RRT5cwqzSoYy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 134 lb down and 86 lb up at 23-0-4 on top chord, and 105 lb down and 10 lb up at 2-0-12, 120 lb down at 4-0-12, 2002 lb down and 386 lb up at 6-1-8, 972 lb down and 236 lb up at $\,$ 8-0-12, 972 lb down and 236 lb up at 9-7-4, 2409 lb down and 810 lb up at 11-6-8, 1379 lb down and 229 lb up at 19-9-8, 455 lb down and 69 lb up at 21-11-4, and 481 lb down and 90 lb up at 23-11-4, and 1199 lb down and 207 lb up at 25-11-4 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

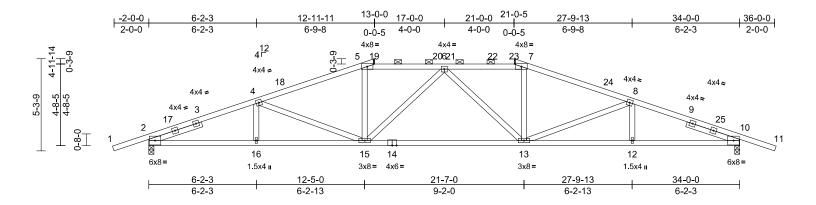
Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft) Vert: 1-4=-70, 4-8=-70, 8-11=-70, 1-10=-20 Concentrated Loads (lb) Vert: 19=-2002 (B), 17=-2409 (B), 14=-1379 (B), 23=-105 (B), 24=-120 (B), 25=-972 (B), 26=-972 (B), 27=-455 (B), 28=-481 (B), 29=-1199 (B)

MiTek USA, Inc. 400 Sunrise Avenue, Suite 270 Roseville, CA 95661

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:04 ID:chq9H1TAek88pg15Xxx28azSoTs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.3

Plate Offsets (X	, Y):	[2:0-0-5,0-3-13],	[10:0-0-5,0-3-13]	
------------------	-------	-------------------	-------------------	--

												_
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.84	Vert(LL)	0.22	15-16	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.60	Vert(CT)	-0.87	13-15	>468	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S		l ` ´					Weight: 161 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G WEBS 2X4 DF Std G

SLIDER Left 2x4 DF Std G-- 3-2-7, Right 2x4 DF Std

G-- 3-2-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except 2-0-0 oc purlins (3-7-13 max): 5-7

BOT CHORD Rigid ceiling directly applied or 6-7-11 oc

bracing.

2=0-3-8, 10=0-3-8 REACTIONS (size)

Max Horiz 2=-78 (LC 10)

Max Uplift 2=-404 (LC 12), 10=-362 (LC 12) Max Grav 2=1798 (LC 1), 10=1750 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22 2-4=-3773/1191 4-5=-3339/1143

5-6=-3132/1136, 6-7=-2988/1012, 7-8=-3194/1018, 8-10=-3648/1083,

10-11=0/22

BOT CHORD 2-16=-1014/3451, 15-16=-1014/3451,

13-15=-910/3220, 12-13=-914/3335,

10-12=-914/3335

WEBS 4-16=0/206, 4-15=-368/318, 5-15=-47/457,

6-15=-259/79, 6-13=-459/227, 7-13=-95/528,

8-13=-386/317, 8-12=0/207

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 12-6-12, Exterior(2R) 12-6-12 to 17-4-7, Interior (1) 17-4-7 to 21-5-4, Exterior(2R) 21-5-4 to 26-2-15, Interior (1) 26-2-15 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 2 and 362 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 294 Ib down and 336 lb up at 12-11-12, and 102 lb down and 52 lb up at 19-9-8, and 223 lb down and 157 lb up at 21-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-7=-70, 7-11=-70, 2-10=-20

Concentrated Loads (lb)

Vert: 19=-202



MARNING - 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 component, not a for an intrividual building component, not a for an intrividual 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

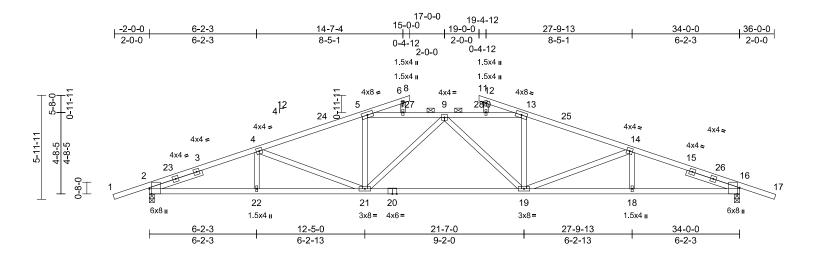
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type BRS2200279 Truss Approved.pdf	Qty 05/24/23		Russo - 023 of 57	R75640032
230109-A	A3	Hip	1	1	Job Reference (optional)	173040032

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:05 ID:rywPJk?9WxZ2THqMYTC8NezSoTB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:66.4

Plate Offsets (X, Y):	[2:0-3-8,Edge],	[16:0-4-5,Edge]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.20	19-21	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.84	19-21	>483	180		
BCLL	0.0*	Rep Stress Incr	YES	WB .	0.30	Horz(CT)	0.21	16	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S		, ,					Weight: 168 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF Std G **WEBS**

Left 2x4 DF No.1&Btr G-- 3-2-7, Right 2x4 DF **SLIDER**

No.1&Btr G-- 3-2-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-11 oc purlins, except

2-0-0 oc purlins (3-11-3 max): 5-13 **BOT CHORD**

Rigid ceiling directly applied or 7-3-12 oc

bracing.

REACTIONS (size) 2=0-3-8, 16=0-3-8

Max Horiz 2=-94 (LC 10)

Max Uplift 2=-295 (LC 12), 16=-295 (LC 12) Max Grav 2=1685 (LC 1), 16=1685 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22 2-4=-3465/1011 4-5=-3026/986 5-6=-60/9, 6-8=-84/20, 11-12=-95/51,

12-13=-60/10, 13-14=-3026/961, 14-16=-3465/970, 16-17=0/22 5-7=-2839/1043, 7-9=-2839/1043 9-10=-2839/1018, 10-13=-2839/1018

BOT CHORD 2-22=-829/3161, 21-22=-829/3161, 19-21=-826/2948, 18-19=-807/3161,

16-18=-807/3161

WEBS 4-22=0/209, 5-21=-37/464, 4-21=-381/234,

9-21=-347/151, 13-19=-46/464, 14-18=0/209, 14-19=-389/239, 9-19=-356/168,

6-7=-262/97, 10-12=-281/192

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 15-0-0, Exterior(2E) 14-7-4 to 19-4-12, Exterior(2R) 19-0-0 to 23-9-11, Interior (1) 23-9-11 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 295 lb uplift at joint 2 and 295 lb uplift at joint 16.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 258 Ib down and 65 lb up at 15-0-0, and 294 lb down and 162 lb up at 19-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-8=-70, 11-13=-70, 13-17=-70, 2-16=-20, 7-27=-30, 27-28=-70, 10-28=-30



April 10,2023



▲ 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 component, not a for an intrividual building component, not a for an intrividual 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

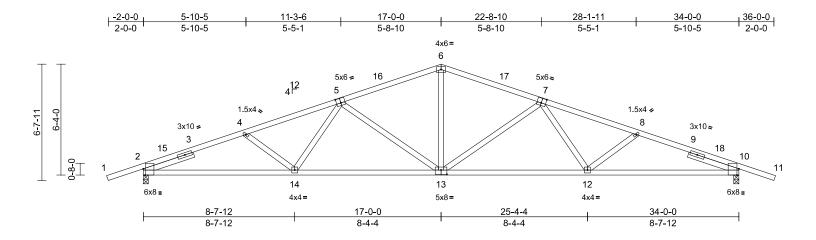


 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 05/24/23 12
 Ply Page 9 1
 Russo - 023 of 57 Job Reference (optional)
 Russo - 023 FR75640033

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:05 ID:aoAjzB4PsNHhC6yq7Pvo1lzSo_5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:65.8

Plate Offsets (X, Y): [2:0-4-5,Edge], [5:0-3-0,0-3-4], [7:0-3-0,0-3-4], [10:0-4-5,Edge], [13:0-4-0,0-3-0]

												-
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.17	13-14	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.60	Vert(CT)	-0.66	13-14	>622	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.20	10	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 157 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 3-0-4, Right 2x4 DF

No.1&Btr G-- 3-0-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-6 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-1-12 oc

bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=106 (LC 11)

Max Uplift 2=-277 (LC 12), 10=-277 (LC 12)

Max Grav 2=1673 (LC 1), 10=1673 (LC 1) (lb) - Maximum Compression/Maximum

FORCES (lb) - Maxir Tension

TOP CHORD 1-2=0/22, 2-4=-3393/818, 4-6=-3166/763,

6-8=-3166/763, 8-10=-3393/818, 10-11=0/22

BOT CHORD 2-14=-661/3090, 12-14=-555/2810,

10-12=-666/3090

WEBS 6-13=-213/1091, 7-13=-816/278, 7-12=0/405,

8-12=-188/155, 5-13=-816/278, 5-14=0/405,

4-14=-188/155

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior (1) 20-4-13 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 277 lb uplift at joint 2 and 277 lb uplift at joint 10.

LOAD CASE(S) Standard





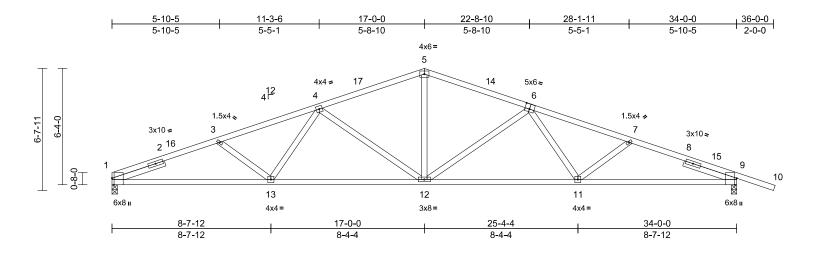


 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 95/24/23 3
 Ply Page 10 1
 Russo - 023 of 57
 Russo - 023 of 57
 R75640034

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:06 ID:7M?v6XKadQLXecqRX?sL08zSo2w-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.7

Plate Offsets (X, Y): [1:0-4-5,Edge], [6:0-3-0,0-3-4], [9:0-4-5,Edge]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.66	Vert(LL)	0.17	11-12	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.66	11-12	>619	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.20	9	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 154 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 3-0-4, Right 2x4 DF

No.1&Btr G-- 3-0-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-8-2 oc purlins.

BOT CHORD Rigid ceiling directly applied or 7-11-4 oc

bracing

REACTIONS (size) 1=0-3-8, 9=0-3-8 Max Horiz 1=-107 (LC 10)

Max Uplift 1=-184 (LC 12), 9=-279 (LC 12)

Max Grav 1=1526 (LC 1), 9=1678 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 5-7=-3178/779, 7-9=-3405/832, 9-10=0/22,

1-3=-3466/867, 3-4=-3206/797,

4-5=-2368/675

1-13=-703/3152, 12-13=-559/2828,

11-12=-570/2822, 9-11=-680/3100 WEBS 5-12=-223/1100, 6-12=-816/277, 6-11

5-12=-223/1100, 6-12=-816/277, 6-11=0/404, 7-11=-188/153, 4-12=-827/282, 4-13=0/419,

3-13=-221/183

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-4-13, Interior (1) 3-4-13 to 17-0-0, Exterior(2R) 17-0-0 to 20-4-13, Interior (1) 20-4-13 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; c-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 5) A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 1 and 279 lb uplift at joint 9.

LOAD CASE(S) Standard

C70068

EXP 9-30-2024

* CALIFORNIA



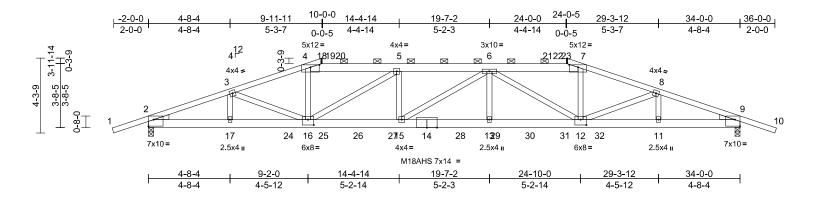


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 05/24/23 Page 11 of 57 R75640035 230109-A A6 California Girder Job Reference (optional)

Brown & Erown & From the Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:06 ID:ys?IDeRfCOpd2blwMc?gCKzSo1V-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.2

Plate Offsets (X, Y): [2:Edge,0-4-8], [4:0-6-0,0-1-11], [7:0-6-0,0-1-11], [9:Edge,0-4-8], [12:0-4-0,0-3-12], [16:0-4-0,0-3-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	0.36	13-15	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.93	Vert(CT)	-1.06	13-15	>383	180	M18AHS	169/162
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.24	9	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 393 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G *Except* 4-7:2X6 DF SS

BOT CHORD 2X6 DF SS G 2X4 DF Std G WFBS WEDGE Left: 2x4 DF Std G

Right: 2x4 DF Std G

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-7-8 oc purlins, except

2-0-0 oc purlins (4-7-12 max.): 4-7. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=60 (LC 7)

Max Uplift 2=-1007 (LC 8), 9=-1007 (LC 8) Max Grav 2=4788 (LC 1), 9=4786 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/27, 2-3=-11469/2242.

3-4=-12362/2546, 4-5=-11668/2429, 5-6=-14587/3024, 6-7=-11665/2428, 7-8=-12358/2545, 8-9=-11463/2241

9-10=0/27

BOT CHORD 2-17=-1997/10560, 16-17=-1997/10560,

15-16=-2867/14587, 13-15=-2863/14562, 12-13=-2863/14562, 11-12=-1996/10554,

9-11=-1996/10554

WEBS 3-17=-41/121, 3-16=-367/1530,

4-16=-595/3151, 5-16=-3529/699, 5-15=-254/1509, 6-15=-37/95, 6-13=-251/1459, 6-12=-3503/696, 7-12=-594/3145, 8-12=-366/1533,

8-11=-43/120

NOTES

2-ply truss to be connected together with 16d (0.162"x 3.5") nails as follows:

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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
- A plate rating reduction of 20% has been applied for the green lumber members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1007 lb uplift at joint 2 and 1007 lb uplift at joint 9.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 178 Ib down and 114 lb up at 9-11-12, and 178 lb down and 114 lb up at 24-0-4 on top chord, and 954 lb down and 167 lb up at 8-0-12, 559 lb down and 186 lb up at 10-0-12, 532 lb down and 117 lb up at 12-0-12, 536 lb down and 118 lb up at 14-0-12, 536 lb down and 119 lb up at 16-0-12, 536 lb down and 119 lb up at 17-11-4, 536 lb down and 118 lb up at 19-11-4, 532 lb down and 117 lb up at 21-11-4, and 559 lb down and 186 lb up at 23-11-4, and 954 lb down and 167 lb up at 25-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-7=-70, 7-10=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 14=-536 (F), 24=-954 (F), 25=-559 (F), 26=-532 (F), 27=-536 (F), 28=-536 (F), 29=-536 (F), 30=-532

(F), 31=-559 (F), 32=-954 (F)



April 10,2023



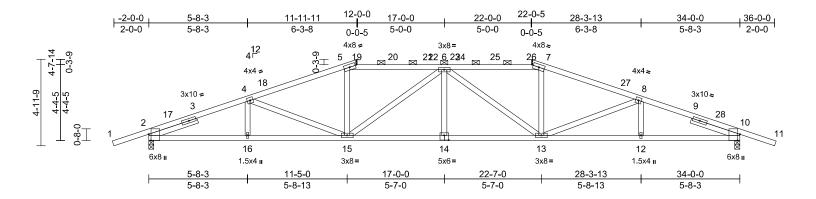


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 12 of 57 R75640036 230109-A Α7 California Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:07 ID:nHu?2Vj5nSiMJ8YLCyv4dAzSo18-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.3

Plate Offsets (X, Y):	[2:0-4-5,Edge], [10:0-4	l-5,Edge], [14:0-3-0,0-3-4]
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												-
Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.72	Vert(LL)	0.20	14	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.50	Vert(CT)	-0.67	13-14	>605	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G 2X4 DF Std G WEBS

SLIDER Left 2x4 DF Std G-- 2-11-5, Right 2x4 DF Std

G-- 2-11-5

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-5-6 oc purlins, except

2-0-0 oc purlins (3-9-1 max): 5-7 **BOT CHORD** Rigid ceiling directly applied or 7-7-12 oc

bracing.

2=0-3-8, 10=0-3-8 REACTIONS (size)

Max Horiz 2=-73 (LC 10)

Max Uplift 2=-293 (LC 12), 10=-293 (LC 12) Max Grav 2=1673 (LC 1), 10=1673 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/22, 2-4=-3435/922, 4-5=-3064/873, TOP CHORD

5-6=-2872/873, 6-7=-2872/873,

7-8=-3064/873, 8-10=-3435/922, 10-11=0/22 **BOT CHORD**

2-16=-768/3133, 15-16=-768/3133, 13-15=-723/3209. 12-13=-768/3133

10-12=-768/3133

WEBS 4-16=0/207, 4-15=-338/286, 5-15=-48/518,

6-15=-546/133, 6-14=0/211, 6-13=-546/133,

7-13=-48/518, 8-13=-316/286, 8-12=0/207

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 11-6-12, Exterior(2R) 11-6-12 to 16-4-7, Interior (1) 16-4-7 to 22-5-4, Exterior(2R) 22-5-4 to 27-2-15, Interior (1) 27-2-15 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 293 lb uplift at joint 2 and 293 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 223 Ib down and 157 lb up at 11-11-12, 43 lb down and 83 Ib up at 14-0-12, 46 lb down and 89 lb up at 16-0-12. 46 lb down and 89 lb up at 17-11-4, and 43 lb down and $83\ lb\ up\ at\ 19$ -11-4, and $223\ lb\ down\ and\ 157\ lb\ up\ at\ 22$ -0-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-7=-70, 7-11=-70, 2-10=-20



April 10,2023

MARNING - 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 properly and properly diagnees. 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

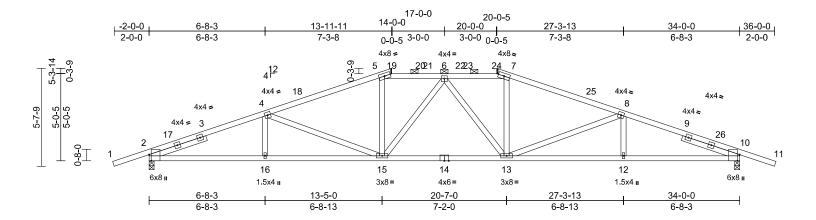


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 13 of 57 R75640037 230109-A **A8** California Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:07 ID:KvvvXcKS0p?GJpNy8SpofjzSo0M-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.3

Plate Offsets (X,	Y):	[2:0-4-5,Edge],	[10:0-4-5,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.82	Vert(LL)	0.17	12-13	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.65	13-15	>630	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.21	10	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G **WEBS** 2X4 DF Std G

SLIDER Left 2x4 DF Std G-- 3-5-10, Right 2x4 DF Std

G-- 3-5-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-11-11 max): 5-7 **BOT CHORD** Rigid ceiling directly applied or 7-6-15 oc

bracing.

REACTIONS 2=0-3-8, 10=0-3-8 (size)

Max Horiz 2=-84 (LC 10)

Max Uplift 2=-292 (LC 12), 10=-292 (LC 12) Max Grav 2=1673 (LC 1), 10=1673 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22 2-4=-3474/942 4-5=-2858/849

5-6=-2649/855, 6-7=-2649/855,

7-8=-2858/849, 8-10=-3474/942, 10-11=0/22

2-16=-779/3158, 15-16=-779/3158, 13-15=-616/2708. 12-13=-780/3158

10-12=-780/3158

WEBS 4-16=0/257, 4-15=-570/254, 5-15=-43/457, 7-13=-43/457, 8-13=-570/254, 8-12=0/257,

6-15=-253/92, 6-13=-253/92

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 13-6-12, Exterior(2R) 13-6-12 to 18-4-7, Interior (1) 18-4-7 to 20-5-4, Exterior(2R) 20-5-4 to 25-2-15, Interior (1) 25-2-15 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 2 and 292 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 145 lb up at 13-11-12, 53 lb down and 101 lb up at 16-0-12, and 53 lb down and 101 lb up at 17-11-4, and 69 lb down and 145 lb up at 20-0-4 on top chord. The design/selection of such connection device (s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-7=-70, 7-11=-70, 2-10=-20





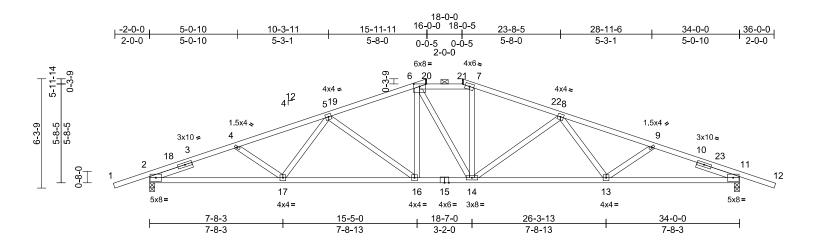
 Job
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 Qty 95/24/23
 Ply Page 14
 Russo - 023 of 57
 R75640038

 230109-A
 A9
 California
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 Job Reference (optional)

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:08 ID:ZvUk VemupHaRpMyfvHuiCzSo?y-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.4

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.72	Vert(LL)	0.19	16-17	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.68	16-17	>599	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.20	11	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 168 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G

SLIDER Left 2x4 DF Std G-- 2-7-2, Right 2x4 DF Std

G-- 2-7-2

BRACING TOP CHORD

OP CHORD Structural wood sheathing directly applied or

2-5-6 oc purlins, except 2-0-0 oc purlins (4-3-7 max): 6-7

BOT CHORD Rigid ceiling directly applied or 7-7-14 oc

bracing.

REACTIONS (size) 2=0-3-8, 11=0-3-8

Max Horiz 2=95 (LC 11)

Max Uplift 2=-337 (LC 12), 11=-337 (LC 12) Max Grav 2=1693 (LC 1), 11=1693 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-3433/906, 4-5=-3271/870,

5-6=-2628/795, 6-7=-2443/797, 7-8=-2630/802, 8-9=-3271/876,

9-11=-3432/912, 11-12=0/22 BOT CHORD 2-17=-753/3119, 16-17=-688/2948,

14-16=-491/2441, 13-14=-696/2948,

11-13=-760/3119

WEBS 6-16=-97/489, 6-14=-155/161

7-14=-104/475, 4-17=-106/138, 5-17=0/343,

5-16=-640/263, 8-14=-638/265, 8-13=0/342,

9-13=-89/141

NOTES

 Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=34ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 1-4-4, Interior (1) 1-4-4 to 15-6-12, Exterior(2E) 15-6-12 to 18-5-4, Exterior(2R) 18-5-4 to 23-2-15, Interior (1) 23-2-15 to 36-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; but of the control of the
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 337 lb uplift at joint 11 and 337 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 201 lb up at 15-11-12, and 79 lb down and 201 lb up at 18-0-4 on top chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (lb/ft)

Vert: 1-6=-70, 6-7=-70, 7-12=-70, 2-11=-20

Concentrated Loads (lb)

Vert: 20=-20, 21=-20



Job Truss 230109-A G1

Truss Type BRS2200279 Truss Approved.pdf California Girder

Qty 05/24/23 1 Ply Russo - 023 Page 15 of 57

of 57

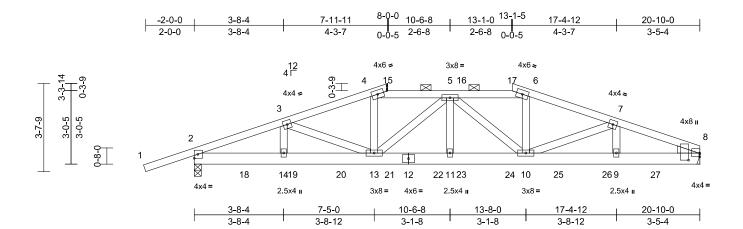
Job Reference (optional)

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Page: 1

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:08 ID:te7GJfwmb?WhxnKA_ukjr_zSodc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



<u>-</u>6-

Scale = 1:47.5

Loading	(psf)	Spacing	2-0-0	csi	DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC.	Vert(LL)	0.07	11-13	>999		MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	Vert(CT)	-0.22		>999	180	ī ·	220/100
BCLL	0.0*	Rep Stress Incr	NO	WB	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S	, ,					Weight: 223 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X6 DF SS G
WEBS 2X4 DF Std G
WEDGE Right: 2x4 DF Std G

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=48 (LC 7)

Max Uplift 2=-426 (LC 8), 8=-314 (LC 8)

Max Grav 2=2182 (LC 1), 8=2022 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

TOP CHORD 1-2=0/23

1-2=0/27, 2-3=-4477/725, 3-4=-4726/971,

4-5=-4466/946, 5-6=-4411/923, 6-7=-4666/947, 7-8=-4426/752

BOT CHORD 2-14=-620/4066, 13-14=-620/4066, 14-14=-620/4066, 13-14=-620/4066, 14-14=-620/6060, 14-14=-620/606

11-13=-1003/5049, 10-11=-1003/5049, 9-10=-645/4005, 8-9=-645/4005

WEBS 3-14=0/266, 3-13=-280/593, 4-13=-1/704,

5-13=-841/238, 5-11=-72/478,

5-10=-914/274, 6-10=0/673, 7-10=-250/629,

7-9=0/288

NOTES

 2-ply truss to be connected together with 16d (0.162"x 3.5") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc clinched.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.

- 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * 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.
- A plate rating reduction of 20% has been applied for the green lumber members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 426 lb uplift at joint 2 and 314 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 568 lb down and 278 lb up at 7-11-12, and 196 lb down and 123 lb up at 11-0-4, and 568 lb down and 267 lb up at 13-1-4 on top chord, and 178 lb down at 2-0-12, 90 lb down at 4-0-12, 98 lb down at 6-0-12, 119 lb down at 8-0-12, 446 lb down and 167 lb up at 10-0-12, 119 lb down at 11-0-4, 119 lb down at 13-0-4, 98 lb down at 15-0-4, and 90 lb down at 17-0-4, and 178 lb down at 19-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 6-8=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 15=-528, 16=-196, 17=-528, 18=-63 (F), 19=-44 (F), 20=-55 (F), 21=-59 (F), 22=-442 (F), 23=-59 (F), 24=-59 (F), 25=-55 (F), 26=-44 (F), 27=-63 (F)



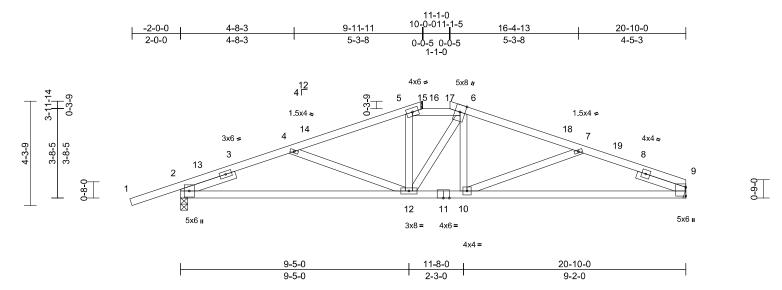


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 Page 16 5/24/23 of 57 230109-A G2 California 2 Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:09 ID:aUdK8qDNFBDw sv0aii7VmzSoeW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

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Scale = 1:47.5

Plate Offsets	(X, Y)	: [2:0-3-13,0-1-13]
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.16	2-12	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.54	2-12	>462	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G **WEBS** 2X4 DF Std G

SLIDER Left 2x4 DF Std G-- 2-4-7, Right 2x4 DF Std

G-- 2-1-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-4 oc purlins, except

2-0-0 oc purlins (5-2-5 max): 5-6. **BOT CHORD** Rigid ceiling directly applied or 8-6-10 oc

bracing.

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

Max Horiz 2=57 (LC 11)

Max Uplift 2=-263 (LC 12), 9=-164 (LC 12) Max Grav 2=1147 (LC 1), 9=992 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/22, 2-4=-2011/705, 4-5=-1746/573,

5-6=-1627/589, 6-7=-1742/564, 7-9=-1989/675

BOT CHORD 2-12=-592/1809, 10-12=-384/1624,

9-10=-555/1775

4-12=-246/279, 5-12=-59/246, 6-12=-114/129, 6-10=-29/225, 7-10=-224/282

WFBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior (1) 0-11-7 to 9-6-12, Exterior(2E) 9-6-12 to 11-6-4, Exterior(2R) 11-6-4 to 15-9-3, Interior (1) 15-9-3 to 20-10-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 9 and 263 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 169 Ib down and 134 lb up at 9-11-12, and 88 lb down and 111 lb up at 11-1-4 on top chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-6=-70, 6-9=-70, 2-9=-20

Concentrated Loads (lb) Vert: 15=-53, 17=-68



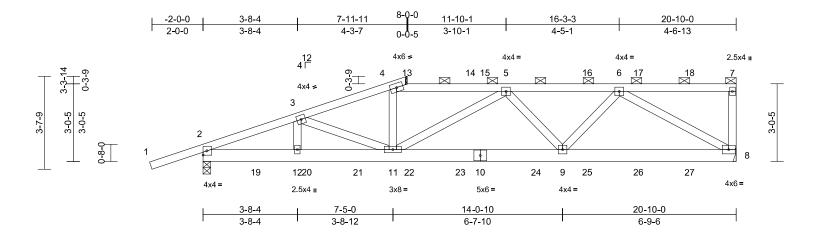
Job Truss Truss Type BRS2200279 Truss Approved.pdf Ply Page 17 Russo - 023 5/24/23 of 57 230109-A G3 Roof Special Girder Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:09 ID:V29ps4den71tcKfcCvKd0QzSofH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

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Scale = 1:45

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.42	Vert(LL)	0.10	9-11	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.44	Vert(CT)	-0.27	9-11	>916	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 223 lb	FT = 20%

LUMBER

2X4 DF No 1&Btr G TOP CHORD 2X6 DF SS G **BOT CHORD** 2X4 DF Std G WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=140 (LC 5)

Max Uplift 2=-453 (LC 8), 8=-715 (LC 5)

Max Grav 2=2140 (LC 1), 8=2369 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/27, 2-3=-4306/772, 3-4=-4778/1095, 4-5=-4514/1063, 5-6=-4443/1150,

6-7=-90/62, 7-8=-303/146

2-12=-776/3910, 11-12=-776/3910,

9-11=-1288/4776. 8-9=-1041/3455 WFBS

3-12=-154/198, 3-11=-365/821,

4-11=-48/736, 5-11=-388/228,

6-9=-227/1543, 5-9=-520/157,

6-8=-3954/1157

NOTES

BOT CHORD

2-ply truss to be connected together with 16d (0.162"x 3.5") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc clinched.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc clinched.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 715 lb uplift at joint 8 and 453 lb uplift at joint 2.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 408 Ib down and 216 lb up at 7-11-12, 181 lb down and 111 Ib up at 11-0-4, 249 lb down and 193 lb up at 15-0-4, and 249 lb down and 193 lb up at 17-0-4, and 233 lb down and 195 lb up at 19-0-4 on top chord, and 178 lb down at 2-0-12, 90 lb down at 4-0-12, 98 lb down at 6-0-12, 119 lb down at 8-0-12, 458 lb down and 176 lb up at 10-0-12, 113 lb down at 11-0-4, 340 lb down and 174 lb up at 13-0-4, 106 lb down at 15-0-4, and 106 lb down at 17-0-4, and 3 lb down and 78 lb up at 19-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-7=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 10=-93 (B), 13=-368, 15=-181, 16=-249. 17=-249, 18=-233, 19=-63 (B), 20=-44 (B), 21=-55

(B), 22=-59 (B), 23=-457 (B), 24=-340 (B), 25=-82

(B), 26=-82 (B), 27=48 (B)



April 10,2023



a truss system. Before use, the building component, not a for an intrividual building component, not a for an intrividual 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



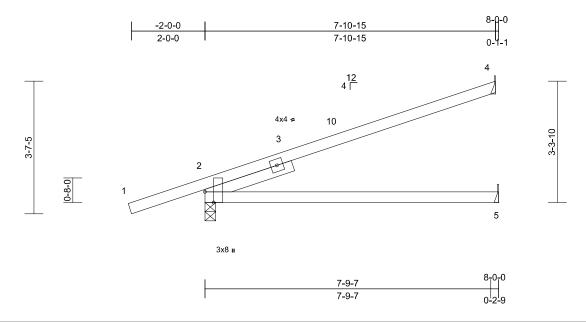
Job Truss Truss Truss Truss Approved.pdf Off Off Page 18 of 57 Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:10 ID:7OdfD9f9tmRz6DQ2LzV?91zT4dd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

R75640042



Scale = 1:31.4

Plate Offsets	(X,	Y):	[2:0-3-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.18	5-8	>528	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.45	5-8	>210	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.07	2	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-AS							Weight: 29 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
SLIDER Left 2x4 DF Std G-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 4= Mechanical, 5=

Mechanical

Max Horiz 2=149 (LC 12)

Max Uplift 2=-121 (LC 12), 4=-80 (LC 12)

Max Grav 2=516 (LC 1), 4=240 (LC 1), 5=142

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-4=-511/68

BOT CHORD 2-5=-413/290

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-8-10, Interior (1) 0-8-10 to 7-10-3 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 DOI=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber 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 80 lb uplift at joint 4 and 121 lb uplift at joint 2.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

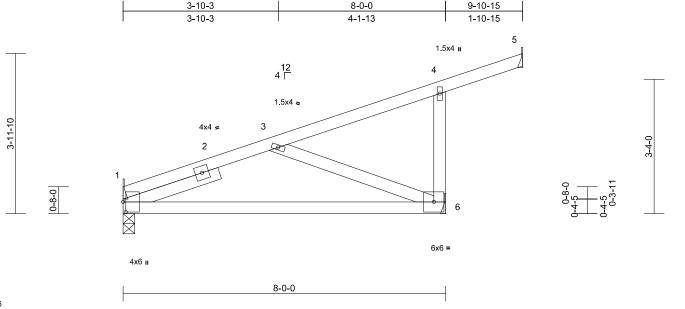


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 05/24/23 Page 19 of 57 R75640043 230109-A JD1 Monopitch Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:10 ID:XdAXxYbb?7_w0lUT7m7_lwzSp1r-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.6

Plate Offsets	(X, Y):	[1:0-3-0,0-0-	13]
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.07	6-9	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.21	6-9	>459	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-AS							Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G **WEBS** 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 2-6-0

BRACING

Structural wood sheathing directly applied, TOP CHORD except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

1= Mechanical, 5= Mechanical, 6=

Mechanical Max Horiz 1=157 (LC 29)

Max Uplift 1=-763 (LC 35), 5=-31 (LC 36),

6=-164 (LC 36)

Max Grav 1=933 (LC 44), 5=39 (LC 39),

6=477 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-1518/1371, 3-4=-1294/1182,

TOP CHORD

4-5=-36/14, 4-6=-312/386 1-6=-1931/1953

BOT CHORD 3-6=-798/781 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 763 lb uplift at joint 1, 31 lb uplift at joint 5 and 164 lb uplift at joint 6.
- This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-0-0 for 250.0 plf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

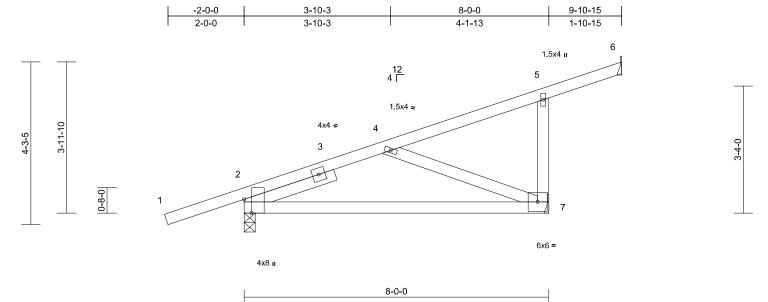
LOAD CASE(S) Standard



Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 20 of 57 R75640044 230109-A JD2 Monopitch Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:10 ID:o0NvqCYiG?miKjCl6FP3QTzSota-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?id



Scale = 1:30.3 Plate Offsets (X, Y): [2:0-4-5,Edge]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.40	Vert(LL)	-0.07	7-10	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.39	Vert(CT)	-0.20	7-10	>480	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-AS		, ,					Weight: 41 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G **WEBS** 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 2-6-0

BRACING

Structural wood sheathing directly applied, TOP CHORD except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

2=0-3-8, 6= Mechanical, 7= Mechanical

Max Horiz 2=171 (LC 29)

Max Uplift 2=-864 (LC 35), 6=-29 (LC 36),

7=-155 (LC 36)

2=1002 (LC 44), 6=38 (LC 39), Max Grav

7=462 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/45, 2-4=-1479/1325, 4-5=-1296/1184, TOP CHORD

5-6=-37/13, 5-7=-319/395

BOT CHORD 2-7=-1878/1908 4-7=-750/725 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-8-10, Interior (1) 0-8-10 to 9-10-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 6, 864 lb uplift at joint 2 and 155 lb uplift at joint 7.
- This truss has been designed for a total drag load of 2000 lb. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 0-0-0 to 8-0-0 for 250.0 plf.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

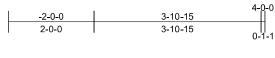
 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 95/24/23
 Ply Page 21 1
 Russo - 023 of 57 Job Reference (optional)

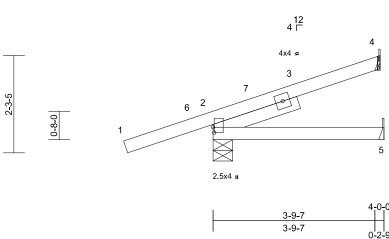
Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

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1-11-10

Page: 1





Scale = 1:27

Plate Offsets	(X, Y):	[2:0-1-	8,0-0-5
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.01	2-5	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
SLIDER Left 2x4 DF Std G-- 2-1-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Mechanical Max Horiz 2=87 (LC 12)

Max Uplift 2=-121 (LC 12), 4=-34 (LC 12) Max Grav 2=355 (LC 1), 4=97 (LC 1), 5=79

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-84/41

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior (1) 0-11-7 to 3-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) A plate rating reduction of 20% has been applied for the green lumber 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 34 lb uplift at joint 4 and 121 lb uplift at joint 2.

LOAD CASE(S) Standard



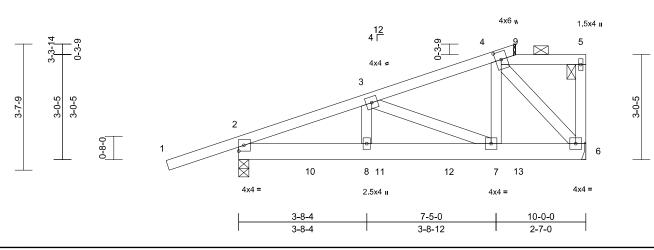
April 10,2023

Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 22 of 57 R75640046 230109-A M1 Roof Special Girder 2 Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:11 ID:4mlPergPPNhhLWZQTOXTESzT4db-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:33.2

Plate Offsets	(X, Y)	: [4:0-2	-12,0-2-0
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.01	7-8	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.26	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 56 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G 2X6 DF SS G **BOT CHORD** 2X4 DF Std G **WEBS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=133 (LC 25)

Max Uplift 2=-127 (LC 8), 6=-155 (LC 8)

Max Grav 2=812 (LC 1), 6=974 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=0/27, 2-3=-1171/0, 3-4=-773/80, 4-5=-22/6, 5-6=-176/73

2-8=-44/1029, 7-8=-44/1029, 6-7=-97/689 BOT CHORD

3-8=0/314, 3-7=-439/0, 4-7=0/495, **WEBS**

4-6=-1021/141

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- A plate rating reduction of 20% has been applied for the green lumber members.

- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 6 and 127 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 568 lb down and 249 lb up at 7-11-12 on top chord, and 75 Ib down at 2-0-12, 119 lb down at 4-0-12, and 119 lb down at 6-0-12, and 102 lb down at 8-0-12 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-5=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-528, 10=-37 (B), 11=-59 (B), 12=-59 (B),

13=-75 (B)





Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 Page 23 5/24/23 of 57 R75640047 230109-A M2 Jack-Closed 2 Job Reference (optional)

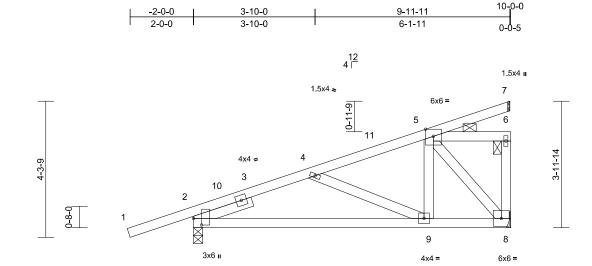
Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:11 ID:ramsuO 5W3r8rM EQ8UKlkzT4dC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-0-0

2-7-0

Page: 1



Scale = 1:36.3

Plate Offsets (X, Y): [2:0-2-8,0-3-1], [5:0-2-15,0-2-12]

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.56	Vert(LL)	-0.06	2-9	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.28	Vert(CT)	-0.18	2-9	>653	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

7-5-0

7-5-0

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G **WEBS** 2X4 DF Std G

SLIDER Left 2x4 DF Std G-- 1-11-2

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except 2-0-0 oc purlins: 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 6

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

Max Horiz 2=191 (LC 12)

Max Uplift 2=-130 (LC 12), 8=-174 (LC 12) Max Grav 2=620 (LC 1), 8=579 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-712/241, 4-5=-460/141,

5-7=-62/0, 5-6=0/0

BOT CHORD 2-9=-407/591, 8-9=-349/412

WEBS 5-9=0/305, 4-9=-286/156, 6-8=-93/158,

5-8=-642/544

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior (1) 0-11-7 to 9-11-11, Exterior(2E) 7-6-12 to 9-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the
- green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 2 and 174 lb uplift at joint 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

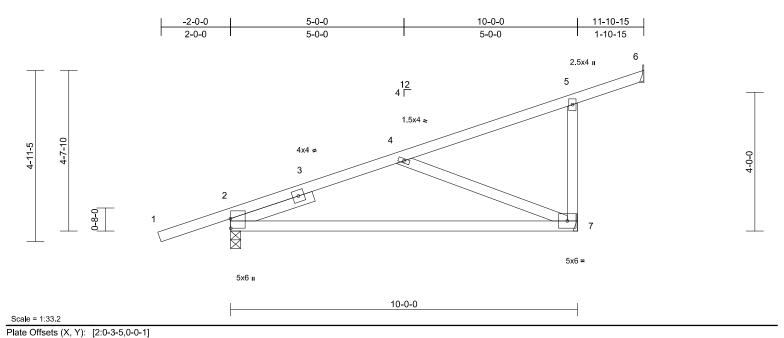


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 24 of 57 R75640048 230109-A M3 Monopitch 2 Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

ID:0uLkUjV?xmpp2DwY4lmy7lzT4dq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:11 Page: 1



Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.76	Vert(LL)	-0.14	7-10	>874	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.41	Vert(CT)	-0.40	7-10	>294	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-AS							Weight: 49 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G 2X4 DF Std G **WEBS**

SLIDER Left 2x4 DF No.1&Btr G-- 2-6-0

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

2=0-3-8, 6= Mechanical, 7= Mechanical

Max Horiz 2=204 (LC 9)

Max Uplift 2=-133 (LC 12), 6=-6 (LC 12),

7=-105 (LC 12)

Max Grav 2=592 (LC 1), 6=34 (LC 3), 7=552

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/45, 2-4=-921/229, 4-5=-200/103, TOP CHORD

5-6=-36/11, 5-7=-280/306 **BOT CHORD** 2-7=-410/556

4-7=-521/394 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-8-10, Interior (1) 0-8-10 to 11-10-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 6, 133 lb uplift at joint 2 and 105 lb uplift at joint 7.
- This truss design requires that a minimum of 7/16' structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard





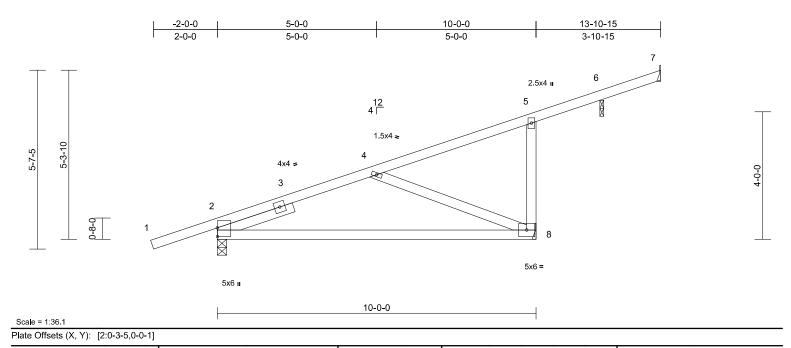
 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Oty 95/24/23
 Ply Page 25 1
 Russo - 023 of 57
 R75640049

 230109-A
 M4
 Monopitch
 2
 Ply Page 25 1
 Russo - 023 of 57
 R75640049

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:11 ID:YhnMHNUNATgyQ3LMX1Fjb4zT4dr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



BCLL BCDL

Loading

TCDL

TCLL (roof)

 LUMBER
 2X4 DF No.1&Btr G

 TOP CHORD
 2X4 DF No.1&Btr G

 BOT CHORD
 2X4 DF No.1&Btr G

 WEBS
 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

(psf)

20.0

15.0

10.0

0.0

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size) 2=0-3-8, 6=0-1-8, 7= Mechanical, 8= Mechanical

Max Horiz 2=224 (LC 9)

Max Uplift 2=-123 (LC 12), 6=-36 (LC 12),

7=-25 (LC 12), 8=-106 (LC 12)

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

2-0-0

1.25

1.25

YES

IBC2021/TPI2014

Max Grav 2=592 (LC 1), 6=99 (LC 1), 7=63

(LC 1), 8=556 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-4=-921/184, 4-5=-249/122,

5-6=-66/31, 6-7=-26/16, 5-8=-284/304 BOT CHORD 2-8=-417/558

BOT CHORD 2-8=-417/558 WEBS 4-8=-521/400

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) -2-0-9 to
 0-8-10, Interior (1) 0-8-10 to 13-10-3 zone; cantilever left
 and right exposed; end vertical left and right
 exposed; C-C for members and forces & MWFRS for
 reactions shown; Lumber DOL=1.60 plate grip
 DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.

 A plate rating reduction of 20% has been applied for the green lumber members.

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.75

0.41

0.26

in

-0.14

-0.40

0.02

(loc)

8-11

8-11

2

I/defl

>874

>293

n/a n/a

L/d

240

180

Refer to girder(s) for truss to truss connections.

CSI

TC

BC

WB

Matrix-AS

- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 7, 123 lb uplift at joint 2, 106 lb uplift at joint 8 and 36 lb uplift at joint 6.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



PLATES

Weight: 51 lb

MT20

GRIP

220/195

FT = 20%



 Job 230109-A
 Truss Truss Type BRS2200279 Truss Approved.pdf Monopitch
 Qty Ply Page 26 26 27 1
 Russo - 023 of 57 R75640050

 230109-A
 M5
 Monopitch
 2
 1
 Dob Reference (optional)

Brown & Amp; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:12 ID:0uLkUjV?xmpp2DwY4Imy7lzT4dq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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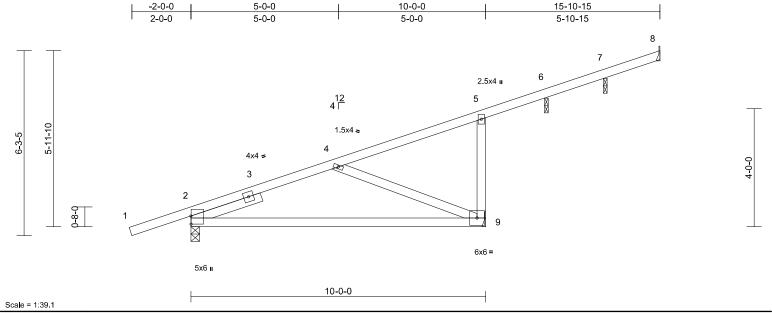


Plate Offsets (X, Y): [2:0-3-5,0-0-1]

Loading	(psf)	Spacing	2-0-0	csi	-	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.14	9-12	>874		MT20	220/195
TCDL	15.0	Lumber DOL	1.25	ВС	0.41	Vert(CT)	-0.40	9-12	>293	180		
BCLL	0.0*	Rep Stress Incr	YES	l wв	0.26	Horz(CT)	0.02	2	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-AS							Weight: 54 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
WEBS 2X4 DF Std G

SLIDER Left 2x4 DF No.1&Btr G-- 2-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied.

REACTIONS (size)

size) 2=0-3-8, 6=0-1-8, 7=0-1-8, 8= Mechanical, 9= Mechanical

Max Horiz 2=243 (LC 9)

Max Uplift 2=-113 (LC 12), 6=-39 (LC 12),

7=-52 (LC 12), 8=-25 (LC 12),

9=-107 (LC 12)

Max Grav 2=592 (LC 1), 6=106 (LC 1), 7=133 (LC 1), 8=63 (LC 1), 9=556 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-4=-921/140, 4-5=-299/142,

5-6=-116/51, 6-7=-74/35, 7-8=-26/16,

5-9=-284/302

BOT CHORD 2-9=-436/560 WEBS 4-9=-521/407

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-8-10, Interior (1) 0-8-10 to 15-10-3 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

-) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- 5) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6, 7.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 8, 113 lb uplift at joint 2, 107 lb uplift at joint 9, 39 lb uplift at joint 6 and 52 lb uplift at joint 7.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 7.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 27 of 57 R75640051 230109-A M6 Roof Special Girder Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:12 ID:ubzQ_GfjpgcC6WMRvJiA?_zSp1m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

(loc)

7-8

7-8

6

>999

>999

n/a n/a

240

180

MT20

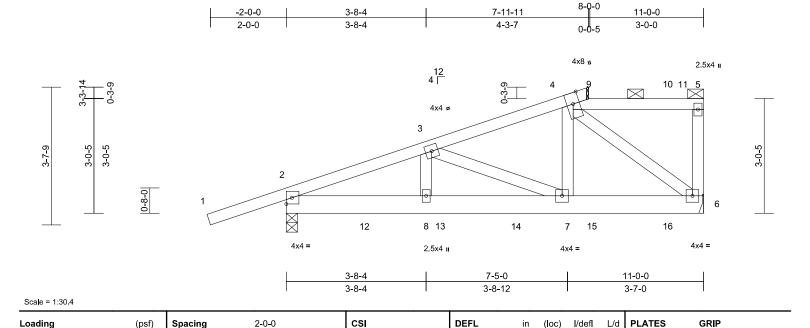
Weight: 61 lb

0.02

-0.06

0.02

Page: 1



BCLL BCDL

Loading

TCDL

TCLL (roof)

LUMBER TOP CHORD 2X4 DF No 1&Btr G 2X6 DF SS G **BOT CHORD** 2X4 DF Std G WEBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals, and

(psf)

20.0

15.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1.25

1 25

NO

IBC2021/TPI2014

2-0-0 oc purlins (6-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=140 (LC 24)

Max Uplift 2=-158 (LC 8), 6=-195 (LC 8)

Max Grav 2=927 (LC 1), 6=1219 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-1448/58, 3-4=-1118/170,

4-5=-76/54, 5-6=-343/135

BOT CHORD 2-8=-80/1282, 7-8=-80/1282, 6-7=-162/1023 3-8=0/299, 3-7=-368/7, 4-7=0/529, **WEBS**

4-6=-1255/170

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.

Refer to girder(s) for truss to truss connections.

TC

BC

WB

Matrix-S

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 195 lb uplift at joint 6 and 158 lb uplift at joint 2.

0.41

0.31

0.39

Vert(LL)

Vert(CT)

Horz(CT)

- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 569 Ib down and 255 lb up at 7-11-12, and 208 lb down and 119 lb up at 10-0-12 on top chord, and 75 lb down at 2-0-12, 119 lb down at 4-0-12, 119 lb down at 6-0-12, and 102 lb down at 8-0-12, and 123 lb down at 10-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-5=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-529, 10=-208, 12=-37 (B), 13=-59 (B),

14=-59 (B), 15=-75 (B), 16=-61 (B)



220/195

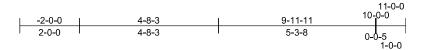
FT = 20%

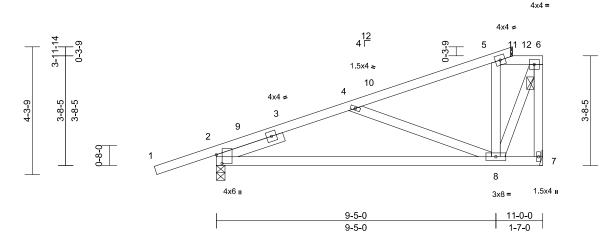


Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 28 of 57 R75640052 230109-A M7 Roof Special Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:12 ID:1KaSXTHrjLyQetS87O52lkzSp N-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:38.8

Plate Offsets	(X,	Y):	[2:0-3-9,0-2	2-5]
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.14	2-8	>950	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.42	2-8	>311	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 57 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF No.1&Btr G 2X4 DF Std G **WEBS**

Left 2x4 DF No.1&Btr G-- 2-4-7 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 2=176 (LC 9)

Max Uplift 2=-155 (LC 12), 7=-78 (LC 12)

Max Grav 2=647 (LC 1), 7=501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/22, 2-4=-771/289, 4-5=-305/93,

5-6=-283/126, 6-7=-586/217

BOT CHORD 2-8=-528/654, 7-8=-76/81

WEBS 4-8=-442/405, 5-8=-218/281, 6-8=-280/636

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior (1) 0-11-7 to 9-6-12, Exterior(2E) 9-6-12 to 10-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the
- green lumber members. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 7 and 155 lb uplift at joint 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 64 lb down and 107 lb up at 9-11-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-6=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 11=-29



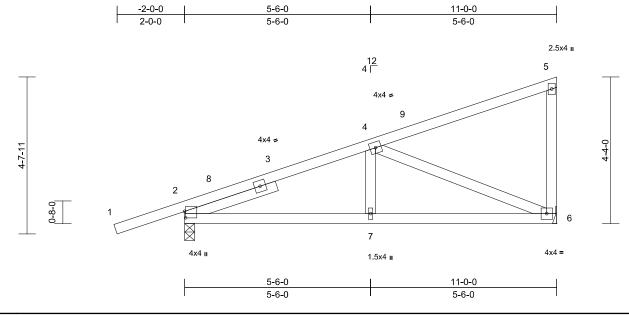
Page: 1

 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 95/24/23 1
 Ply Page 29 1
 Russo - 023 of 57 Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:13 ID:VogFJdV7TtDspeqcBAQG0XzSp_5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:34.1

Plate Offsets	(X, Y):	[2:0-2-5,0-0-5
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Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	тс	0.36	Vert(LL)	-0.02	6-7	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER

SLIDER Left 2x4 DF Std G-- 2-10-2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

bracin

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

Max Horiz 2=205 (LC 9)

Max Uplift 2=-152 (LC 12), 6=-57 (LC 12) Max Grav 2=645 (LC 1), 6=475 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/22, 2-4=-788/209, 4-5=-136/91,

5-6=-162/194

2-7=-424/677, 6-7=-424/677

WEBS 4-7=0/243, 4-6=-691/378

NOTES

BOT CHORD

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-9 to 0-11-7, Interior (1) 0-11-7 to 10-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber 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 57 lb uplift at joint 6 and 152 lb uplift at joint 2.

LOAD CASE(S) Standard

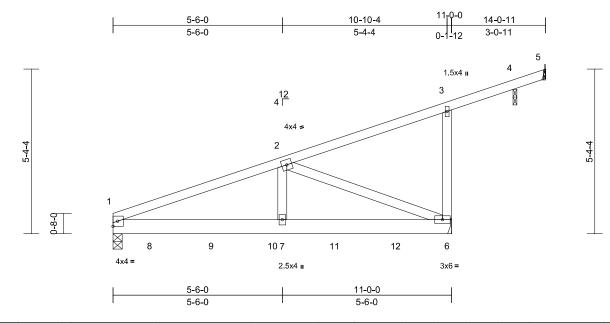


Ply Page 30 Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 of 57 R75640054 230109-A M9 Jack-Closed Girder Job Reference (optional)

Brown & Erown & From the Systems, Hesperia, CA - 92345,

Run: 8 63 F. Dec 22 2022 Print: 8 630 F. Dec 22 2022 MiTek Industries. Inc. Mon Apr 10 13:46:07 ID:ubzQ_GfjpgcC6WMRvJiA?_zSp1m-aSRVkldg12rcHy570YMfZpxBUyYUIKiibeZpN4zS49k

Page: 1



Scale = 1:37.4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	-0.02	1-7	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.07	1-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%

LUMBER

2X4 DF No 1&Btr G TOP CHORD 2X6 DF SS G **BOT CHORD**

2X4 DF Std G *Except* 6-2:2X4 DF No.1&Btr WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS All bearings 0-1-8. except 1=0-3-8, 4=0-1-8

(lb) - Max Horiz 1=203 (LC 8)

Max Uplift All uplift 100 (lb) or less at joint(s)

1, 4, 5 except 6=-177 (LC 8)

All reactions 250 (lb) or less at joint Max Grav (s) 4. 5 except 1=1660 (LC 1).

6=1400 (LC 1)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

TOP CHORD 1-2=-2215/4

BOT CHORD 1-8=-149/2018, 8-9=-149/2018,

9-10=-149/2018, 7-10=-149/2018,

7-11=-149/2018, 11-12=-149/2018,

6-12=-149/2018

3-6=-329/119, 2-7=0/1189, 2-6=-2170/161

WEBS NOTES

- 2-ply truss to be connected together with 16d (0.162"x 3.5") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc clinched.
 - Bottom chords connected as follows: 2x6 2 rows
 - staggered at 0-9-0 oc clinched.
 - Web connected as follows: 2x4 1 row at 0-9-0 oc
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) 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
- A plate rating reduction of 20% has been applied for the green lumber members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 4 except (jt=lb) 6=176.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 305 Ib down and 8 lb up at 0-1-12 on top chord, and 343 lb down at 1-2-4, 337 lb down and 85 lb up at 3-2-4, 332 Ib down at 5-2-4, and 332 lb down at 7-2-4, and 302 lb down and 37 lb up at 9-2-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (lb/ft)

Vert: 1-5=-70, 1-6=-20

Concentrated Loads (lb)

Vert: 1=-305 (F), 8=-343 (F), 9=-337 (F), 10=-332

(F), 11=-332 (F), 12=-302 (F)



April 10,2023



a truss system. Before use, the building component, not a for an intrividual building component, not a for an intrividual 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

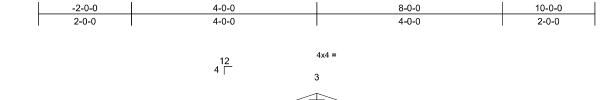
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

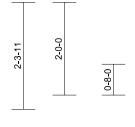


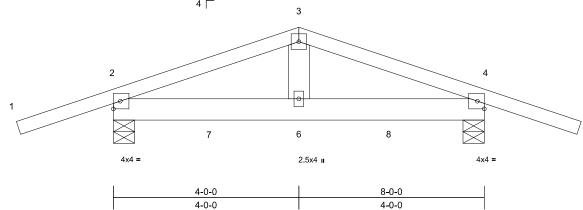
Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 05/24/23 Page 31 of 57 R75640055 230109-A Р1 Common Girder Job Reference (optional)

Brown & Drown; Honeycutt Truss Systems, Hesperia, CA - 92345,

Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:13 ID:OKNQpMvBTtAJhLdNVEBH82zSo?b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.00	2-6	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	2-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No 1&Btr G 2X6 DF SS G **BOT CHORD** 2X6 DF SS G WEBS

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=30 (LC 7)

Max Uplift 2=-123 (LC 8), 4=-123 (LC 8)

Max Grav 2=529 (LC 1), 4=529 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-452/0, 3-4=-452/0, 4-5=0/27

BOT CHORD 2-6=0/387, 4-6=0/387

WFBS 3-6=0/260

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members
- A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 123 lb uplift at joint 2 and 123 lb uplift at joint 4.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 41 lb down at 2-0-12, and 39 lb down at 4-0-0, and 41 lb down at 5-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 2-4=-20

Concentrated Loads (lb)

Vert: 6=-19 (F), 7=-20 (F), 8=-20 (F)



April 10,2023

Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 32 of 57 R75640056 P2 230109-A Valley Job Reference (optional)

4-0-0

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

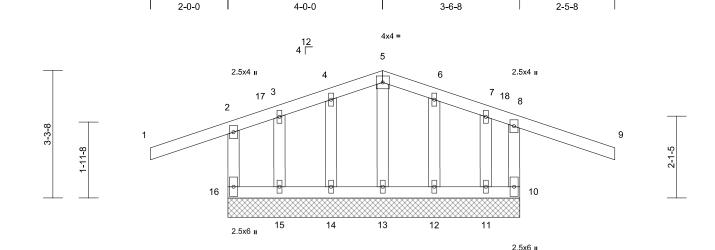
-2-0-0

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7-6-8

10-0-0

Page: 1



Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-R							Weight: 47 lb	FT = 20%

7-6-8

LUMBER

2X4 DF No 1&Btr G TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF Std G WEBS 2X4 DF Std G OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size)

10=7-6-8, 11=7-6-8, 12=7-6-8, 13=7-6-8, 14=7-6-8, 15=7-6-8,

16=7-6-8

Max Horiz 16=113 (LC 11)

Max Uplift 10=-306 (LC 12), 11=-173 (LC 24), 12=-13 (LC 12), 14=-29 (LC 12),

15=-35 (LC 11), 16=-198 (LC 12)

10=469 (LC 24), 11=174 (LC 9), Max Grav

12=128 (LC 24), 13=131 (LC 1), 14=146 (LC 23), 15=101 (LC 10),

16=310 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-303/445, 1-2=0/48, 2-3=-29/140, 3-4=-20/111, 4-5=-39/163, 5-6=-39/157,

6-7=-22/110, 7-8=-69/204, 8-9=0/58,

8-10=-468/682

BOT CHORD 15-16=-108/125, 14-15=-108/125, 13-14=-108/125, 12-13=-108/125,

11-12=-108/125, 10-11=-108/125

5-13=-104/22, 4-14=-120/163, 3-15=-116/48, WEBS

6-12=-101/152, 7-11=-325/200

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior (1) 7-0-0 to 10-0-0 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) A plate rating reduction of 20% has been applied for the green lumber members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 16, 306 lb uplift at joint 10, 29 lb uplift at joint 14, 35 Ib uplift at joint 15, 13 lb uplift at joint 12 and 173 lb uplift at joint 11.

LOAD CASE(S) Standard



Job Truss Truss Type BRS2200279 Truss Approved.pdf Russo - 023 5/24/23 Page 33 of 57 R75640057 230109-A P3 Valley Job Reference (optional)

4-0-0

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

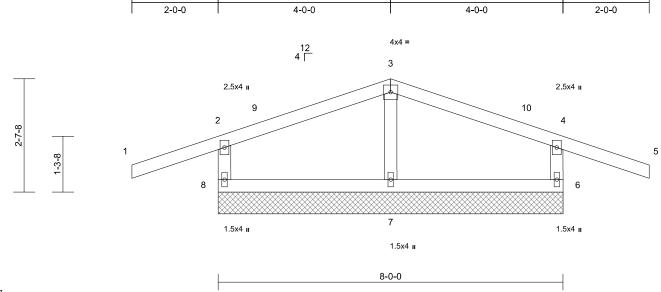
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8-0-0

Page: 1

10-0-0



Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-R							Weight: 33 lb	FT = 20%

LUMBER

2X4 DF No 1&Btr G TOP CHORD 2X4 DF No.1&Btr G **BOT CHORD** 2X4 DF Std G WEBS 2X4 DF Std G OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 6=8-0-0, 7=8-0-0, 8=8-0-0 (size)

Max Horiz 8=78 (LC 11)

Max Uplift 6=-146 (LC 12), 8=-146 (LC 12)

6=342 (LC 24), 7=326 (LC 1), Max Grav

8=342 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-310/387, 1-2=0/48, 2-3=-76/129,

3-4=-79/127, 4-5=0/48, 4-6=-310/386

BOT CHORD 7-8=-39/91, 6-7=-39/91 **WEBS** 3-7=-235/200

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior (1) 7-0-0 to 10-0-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- A plate rating reduction of 20% has been applied for the green lumber members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 8 and 146 lb uplift at joint 6.

LOAD CASE(S) Standard



 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 95/24/23 1
 Ply Page 34 1
 Russo - 023 of 57 Job Reference (optional)

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

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Page: 1

	-2-0-0 2-0-0	4-0-0 4-0-0	8-0-0 4-0-0	10-0-0 2-0-0
		4 🗆	4x4 = 3	
2-3-11	1	7	8	5
	4x ²	1 =	6 4 2.5х4 п	⊠ x4 =
	<u> </u>	8-	0-0	4

Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G BOT CHORD 2X6 DF SS G OTHERS 2X4 DF Std G

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, 4=8-0-0, 6=8-0-0

Max Horiz 2=30 (LC 11)

Max Uplift 2=-146 (LC 12), 4=-146 (LC 12) Max Grav 2=350 (LC 1), 4=350 (LC 1), 6=299

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/29, 2-3=-79/95, 3-4=-79/88, 4-5=0/29

BOT CHORD 2-6=-6/70, 4-6=-6/70 WEBS 3-6=-199/212

NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave-4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior (1) 1-0-0 to 4-0-0, Exterior(2R) 4-0-0 to 7-0-0, Interior (1) 7-0-0 to 10-0-0 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.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 2 and 146 lb uplift at joint 4.

LOAD CASE(S) Standard





 Job
 Truss
 Truss Type BRS2200279 Truss Approved.pdf
 Qty 95/24/23 1
 Ply Page 35 1
 Russo - 023 of 57 Job Reference (optional)

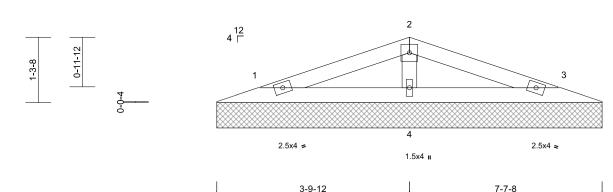
Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

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3-9-12	6-9-1	7-7-8
3-9-12	2-11-5	0-10-7

4x4 =

3-9-12



Scale = 1:22.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

3-9-12

LUMBER

TOP CHORD 2X4 DF No.1&Btr G BOT CHORD 2X4 DF No.1&Btr G WEBS 2X4 DF Std G

BRACING

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

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=7-7-8, 3=7-7-8, 4=7-7-8

Max Horiz 1=-15 (LC 10)

Max Uplift 1=-25 (LC 12), 3=-25 (LC 12),

4=-14 (LC 12)

Max Grav 1=129 (LC 1), 3=129 (LC 1), 4=270

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-40/42, 2-3=-40/48 BOT CHORD 1-4=0/15, 3-4=0/15

WEBS 2-4=-196/228

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) A plate rating reduction of 20% has been applied for the green lumber members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 25 lb uplift at joint 3 and 14 lb uplift at joint 4.

LOAD CASE(S) Standard



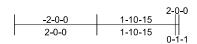
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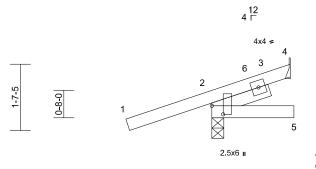
Job Truss Type BRS2200279 Truss Approved.pdf 230109-A SJ Truss Type BRS2200279 Truss Approved.pdf Jack-Open Ply Ply Page 36 of 57 R75640060 R75640060

Brown & Drown & Honeycutt Truss Systems, Hesperia, CA - 92345,

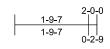
Run: 8.63 S Nov 19 2022 Print: 8.630 S Nov 19 2022 MiTek Industries, Inc. Sat Apr 08 12:22:15 ID:0uLkUjV?xmpp2DwY4lmy7lzT4dq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.



Scale = 1:28

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.19	Vert(LL)	-0.01	5	>999	240	MT20	220/195
TCDL	15.0	Lumber DOL	1.25	вс	0.10	Vert(CT)	-0.02	5	>981	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IBC2021/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

TOP CHORD 2X4 DF No.1&Btr G
BOT CHORD 2X4 DF No.1&Btr G
SLIDER Left 2x4 DF Std G-- 1-5-8

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=60 (LC 12)

Max Uplift 2=-139 (LC 12), 4=-1 (LC 9) Max Grav 2=306 (LC 1), 4=38 (LC 3) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension TOP CHORD 1-2=0/22

Tension 1-2=0/22, 2-4=-64/29

BOT CHORD 2-5=0/0

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=9.0psf; BCDL=6.0psf; h=25ft;
 B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed;
 MWFRS (directional) and C-C Exterior(2E) -2-0-9 to
 0-11-7, Interior (1) 0-11-7 to 1-10-13 zone; cantilever left and right exposed; end vertical 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
- 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.
- A plate rating reduction of 20% has been applied for the green lumber members.
- 5) Refer to girder(s) for truss to truss connections.

 Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard



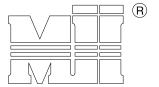
APRIL 12, 2019

BRS 2200279 TOPE NOTIFIED BY 24/07 REP 37 of 57 HIP RAFTER DETAIL

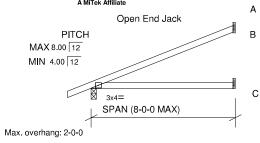
MII-CORNER SET

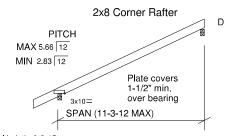
MiTek USA, Inc.

Page 1 of 1

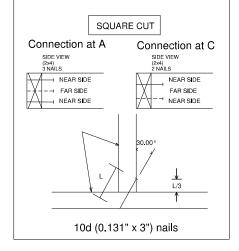


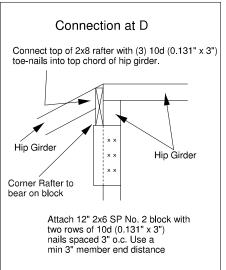


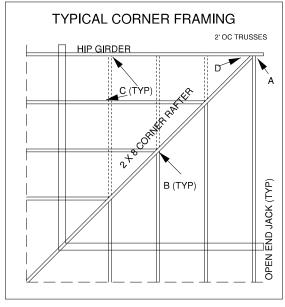




Min. heel heigth: 0-3-15 Max. overhang: 2-10-0



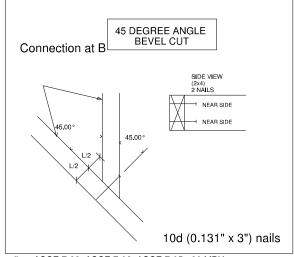




Lumber: SPF MSR 2100 1.8E min. top chord required for top chord slopes between 5.01/12 and 8/12. SPF No. 2 min. top chord slopes between 5/12 and 4/12.

SPF No. 2 min. bottom chord. SP No. 2 or better for corner rafter.

Plates: All plates are MT20 installed on each face per TPI 1.

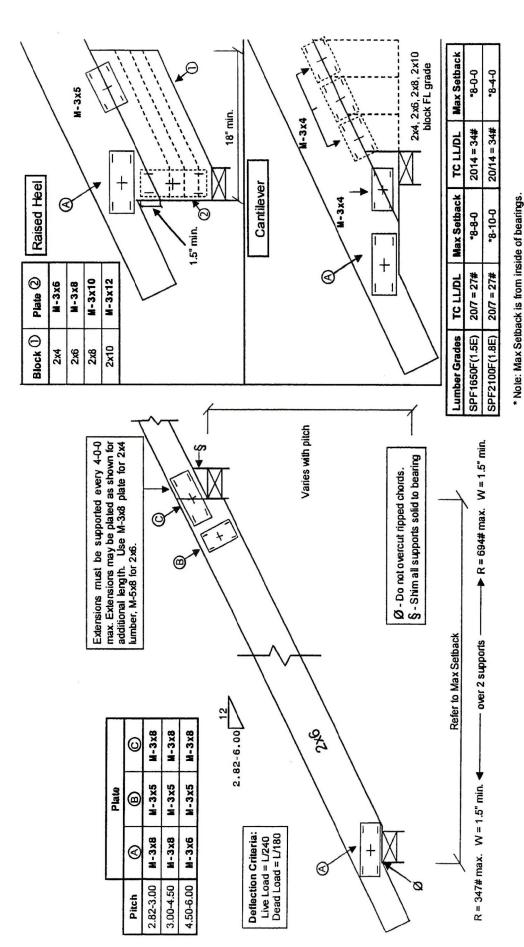


Wind loading: ASCE 7-98, ASCE 7-02, ASCE 7-05 - 90 MPH.
ASCE 7-10, ASCE 7-16 - 115 MPH
Exposure catagory B or C.
Occupancy catagory II
4.8 psf top chord dead load.
4.2 psf bottom chord dead load.
25' roof height.
MWFRS gable end zone.
Enclosed building (Cond. I)
Duration of load is 1.60

Deflection: Top chord LL- L/180 TL- L/120 Bottom chord LL- I/180 TL- L/120 Truss LL- L/240 TL- L/180

Loading: Duration of load is 1.25
20 psf top chord live load
8 psf top chord deal load
0 psf bottom chord live load
7 psf bottom chord dead load
10 psf non-concurrent bottom chord live load

Conforms to: IRC 2000/2003/2006/2009/2012/2015/2018 IBC 2000/2003/2006/2009/2012/2015/2018



TYPICAL "K"

FILE NO: Hip Rafter-2x6(1.25)

2787668 SEQ:

DATE

IBC 2009/CBC 2010

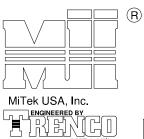
plate manufacturer nor the truss fabricator. Framers erecting Conventional framing is not the responsibility of the truss designer, trusses are cautioned to seek the advice of a local, professional engineer regarding conventional framing. **AUGUST 1, 2016**

SUPPORT OF B.C. OF STANDARD OPEN END JACK USING PRESSURE BLOCKS

MII-OPEN JACK-BLOCKS

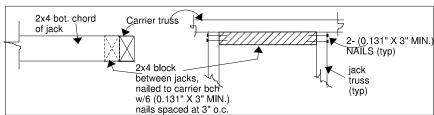
MiTek USA, Inc.

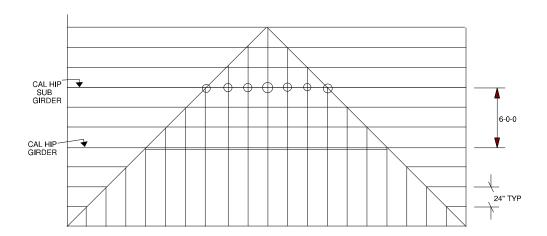
Page 1 of 1



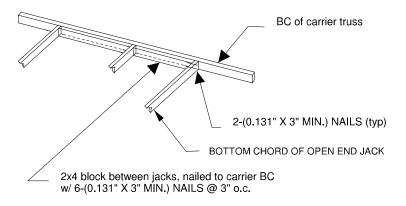
Loading (PSF):

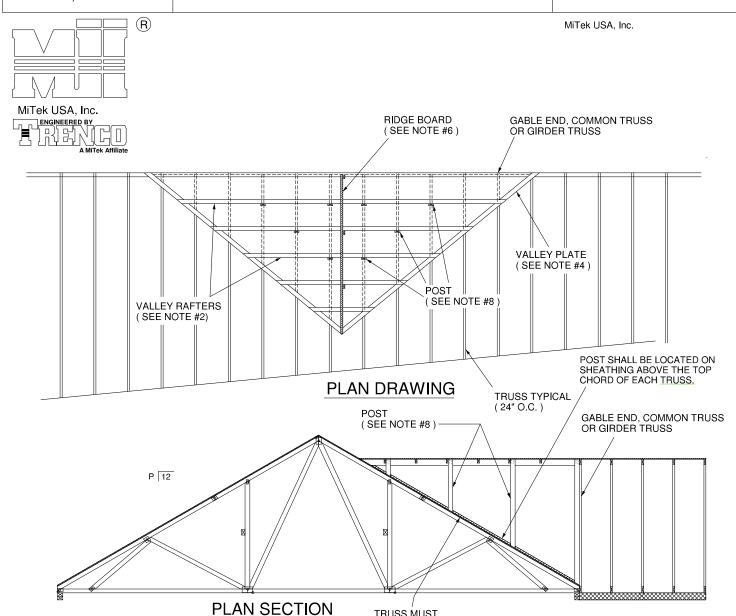
BCDL 10.0 PSF MAX





PARTIAL FRAMING PLAN OF CALIFORNIA HIP SET WITH SUB GIRDER





TRUSS MUST BE SHEATHED

- GENERAL SPECIFICATIONS
- 1. WITH BASE TRUSSES ERECTED (INSTALLED), APPLY SHEATHING TO TOP CHORD OF SUPPORTING (BASE) TRUSSES.
- 2. BRACE BOTTOM CHORD AND WEB MEMBERS PER TRUSS DESIGNS.
- 3. DEFINE VALLEY RIDGE BY RUNNING A LEVEL STRING FROM THE INTERSECTING RIDGE OF THE (a.) GABLE END, (b.) GIRDER TRUSS OR (c.) COMMON TRUSS TO THE ROOF SHEATHING.
- NOTE: 48" O.C. MAXIMUM POST SPACING

LIVE LOAD = 30 PSF (MAX) DEAD LOAD = 15 PSF (MAX) D.O.L. INC = 1.15

ASCE 7-98, ASCE 7-02, ASCE 7-05 90 MPH (MWFRS) ASCE7-10, ASCE 7-16 115 MPH (MWFRS)

- $4. \ \ INSTALL\ 2\times4\ VALLEY\ PLATES.\ \ FASTEN\ TO\ EACH\ SUPPORTING\ TRUSS\ WITH\ (\ 2\)\ 16d\ (0.131"\ X\ 3.5")\ NAILS.$
- 5. SET 2 x 6 #2 RIDGE BOARD. SUPPORT WITH 2 x 4 POSTS SPACED 48" O.C.. BEVEL BOTTOM OF POST TO SET EVENLY ON THE SHEATHING. FASTEN POST TO RIDGE WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST TO ROOF SHEATHING WITH (3) 10d (0.131" X 3") TOE-NAILS.
- 6. FRAME VALLEY RAFTERS FROM VALLEY PLATE TO RIDGE BOARD. MAXIMUM RAFTER SPACING IS 24" O.C.. FASTEN VALLEY RAFTER TO RIDGE BEAM WITH (3) 16d (0.131" X 3.5") TOE-NAILS. FASTEN VALLEY RAFTER TO VALLEY PLATE WITH (3) 16d (0.131" X 3.5") TOE-NAILS.
- 7. SUPPORT THE VALLEY RAFTERS WITH 2 x 4 POSTS 48" O.C (OR LESS) ALONG EACH RAFTER. INSTALL POSTS IN A STAGGERED PATTERN AS SHOWN ON PLAN DRAWING. ALLIGN POSTS WITH TRUSSES BELOW. FASTEN VALLEY RAFTER TO POST WITH (4) 10d (0.131" X 3") NAILS. FASTEN POST THROUGH SHEATHING TO SUPPORTING TRUSS WITH (2) 16d (0.131" X 3.5") NAILS.
- 8. POSTS SHALL BE 2 x 4 #2 OR BETTER SPRUCE PINE FIR, DOUG FIR LARCH OR SOUTHERN PINE. POSTS EXCEEDING 75" SHALL BE INCREASED TO 4 x 4 OR BE PRE-ASSEMBLED (2) PLY 2 x 4's FASTENED TOGETHER WITH 2 ROWS OF 10d (0.131" X 3") NAILS 6" O.C..

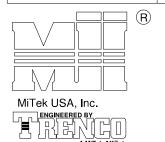


California Fill

APRIL 9, 2020

WEBBRAZING RECOMMENDATIONS 57

MII-WEBBRACE-2



MAXIMUM TRUSS WEB FORCE (lbs.)								
55405	24"O.C.	TRUSS S	PACING	48"O.C	TRUSS S	PACING	72" O.C. TRI	JSS SPACING
BRACE BAY SIZE	BRAC	ING MATERI	AL TYPE	BRAC	ING MATER	IAL TYPE	BRACING MA	ATERIAL TYPE
	Α	В	С	Α	В	С	В	С
10'-0"	1886	1886	2829					
12'-0"	1572	1572	2358	3143	3143	4715	4715	7074
14'-0"	1347	1347	2021					
16'-0"	1179	1179	1768	2358	2358	3536		
18'-0"	1048	1048	1572				3143	4715
20'-0"	943	943	1414	1886	1886	2829		

GENERAL NOTES

TYPE	BRACING MATERIALS
Α	2 X 3 #3, STD, CONST (SPF, DF, HF, OR SP)
В	2 X 4 #3, STD, CONST (SPF, DF, HF, OR SP)
С	2 X 6 #3 OR BETTER (SPF, DF, HF, OR SP)

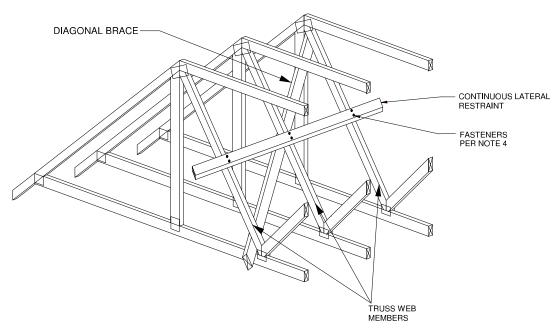
FOR STABILIZERS:

FOR A SPACING OF 24" O.C. ONLY, MITEK "STABILIZER" TRUSS BRACING SYSTEMS CAN BE SUBSTITUTED FOR TYPE A, B AND C BRACING MATERIAL, DIAGONAL BRACING FOR STABILIZERS ARE TO BE PROVIDED AT BAY SIZE INDICATED ABOVE. WHERE DIAPHRAGM BRACING IS REQUIRED AT PITCH BREAKS, STABILIZERS MAY BE REPLACED WITH WOOD BLOCKING. SEE "STABILIZER" TRUSS BRACING INSTALLATION GUIDE AND PRODUCT SPECIFICATION.

- DIAGONAL BRACING AND BLOCKING IS REQUIRED TO TRANSFER THE CUMULATIVE LATERAL BRACE FORCE INTO THE ROOF AND/OR CEILING DIAPHRAGM. THE DIAPHRAGM IS AND ANY BLOCKING TO BE DESIGNED BY A QUALIFIED PROFESSIONAL.
 TABULATED VALUES ARE BASED ON LATERAL BRACE CARRYING 2% OF THE WEB FORCE
- WITH A DOL = 1.15.
 3. DIAGONAL BRACING MATERIAL MUST BE SAME SIZE AND GRADE OR BETTER, AS THE LATERAL
- BRACE MATERIAL, AND SHALL BE INSTALLED IN SUCH A MANNER THAT IT INTERSECTS WEB MEMBERS AT APPROX. 45 DEGREES AND SHALL BE NAILED AT EACH END AND EACH INTERMEDIATE TRUSS WITH 2 - (0.131"x 3") FOR 2x3 and 2x4 BRACES, AND 3- (0.131"x3") FOR 2x6 BRACES
- 2x0 BRACES.

 A. CONNECT LATERAL BRACE TO EACH TRUSS WITH 2 (0.131"x3") NAILS FOR 2x3 AND 2x4
 LATERAL BRACES AND 3- (0.131"x3") FOR 2x6 LATERAL BRACES.

 5. LATERAL BRACE SHOULD BE CONTINUOUS AND SHOULD OVERLAP AT LEAST ONE TRUSS
- SPACE FOR CONTINUITY.
- 6. FOR ADDITIONAL GUIDANCE REGARDING DESIGN AND INSTALLATION OF BRACING, CONSULT DSB-89 TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI 1 GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES, PRODUCED BY STRUCTURAL BUILDING COMPONENT ASSOCIATION. www.sbcindustry.com
 7. REFER TO SPECIFIC MITCH/TRENCO TRUSS DESIGN DRAWING FOR WEB MEMBER FORCE.
 8. BAY SIZE SHALL BE MEASURED IN BETWEEN THE CENTERS OF PAIRS OF DIAGONALS.



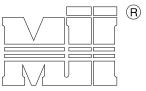
This information is provided to assist in the requirement for permanent bracing of the individual truss web members. Additional bracing may still be required for the stability of the overall roof system. The method shown here is just one method that can be used to provide stability against web buckling. Engineering seal, if any, is supporting the web force chart only.

AUGUST 1, 2016

BRS220p2PPPASCAPP/overprofA 05/24/23EPaA #2 of 57

MII - T-BRACE

MiTek USA, Inc. Page 1 of 1



MiTek USA, Inc.

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.

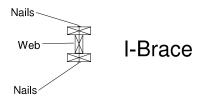
A MITEK ATTIIIATE					
Nailing Pattern					
T-Brace size	Nail Size	Nail Spacing			
1x4 or 1x6	10d (0.131" X 3")	8" o.c.			
2x4 or 2x6 or 2x8	16d (0.131" X 3.5")	8" o.c.			

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

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

	Brace Size for One-Ply Truss	
	Specified Control Rows of Late	
Web Size	1	2
2x3 or 2x4	1x4 (*) T-Brace	1x4 (*) I-Brace
2x6	1x6 (*) 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.

(*) NOTE: If SP webs are used in the truss, 1x4 or 1x6 SP braces must be stress rated boards with design values that are equal to (or better) the truss web design values.

For SP truss lumber grades up to #2 with 1X_ bracing material, use IND 45 for T-Brace/I-Brace For SP truss lumber grades up to #1 with 1X_ bracing material, use IND 55 for T-Brace/I Brace.

BRS 2200279 Truss Approved.pdf 05/24/23 Page 43 of 57 L-BRACE DETAIL

AUGUST 1, 2016

MII - L-BRACE

L-Brace Size

L-Brace Size for Two-Ply Truss

Specified Continuous Rows of Lateral Bracing

1

2x4

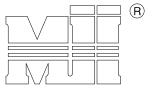
2x6

2x8

2

MiTek USA, Inc.

Page 1 of 1

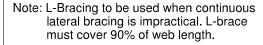


MiTek USA, Inc.



Nailing Pattern				
L-Brace size	Nail Size	Nail Spacing		
1x4 or 6	10d (0.131" X 3")	8" o.c.		
2x4, 6, or 8	16d (0.131" X 3.5")	8" o.c.		

Note: Nail along entire length of L-Brace (On Two-Ply's Nail to Both Plies)



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

^{***} DIRECT SUBSTITUTION NOT APLICABLE.

Nails	
WEB SPACING	
L-BRACE	A
Nails Section Detail L-Brace Web	7

*** DIRECT SUBSTITUTION NOT APLICABLE.

Web Size

2x3 or 2x4

2x6

2x8

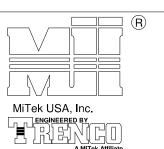
L-Brace must be same species grade (or better) as web member.

AUGUST 1, 2016 BRS2200279 Truss Approved.pdf 05/24/23 Page 44 of 57 SCAB-BRACE DETAIL

MII-SCAB-BRACE

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.

APPLY 2x___ SCAB TO ONE FACE OF WEB WITH 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. MAXIMUM WEB AXIAL FORCE = 2500 lbs MAXIMUM WEB LENGTH = 12'-0" 2x4 MINIMUM WEB SIZE SCAB BRACE MINIMUM WEB GRADE OF #3 Nails Section Detail Scab-Brace Web

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

TP METAL PLATE CONNECTED WOOD TRUSS PLANT QUALITY AUDIT REPORT

www.tpinspection.com

TIMBER PRODUCTS
We Deliver Confidence. ®

PLANT LOCATION: Hesperia, CA PLANT MANAGER: Mike Lutz Mike Lutz PLANT Q.C. INSPECTION DATE: 01/25/23 TIME IN: 7:15 am TIME OUT: 8:30 am 7011 PLANT NUMBER:

PLANT NAME: Brown & Honeycutt Truss

Major/Minor NO. JOINTS w/ ISSUES DEFECTS 0 0 Major/Minor MEMBER GAPS NO. JOINTS w/ ISSUES 0 Major/Minor Major/Minor Major/Minor NO. PLATES w/ ISSUES ROTATION PLATE 0 0 NO. PLATES w/ ISSUES PLATE LOCATION 0 0 PLATE TOOTH EMBED. NO. PLATES w/ ISSUES 0 0 Major/Minor PLATE SIZE & GAUGE NO. PLATES w/ ISSUES 0 JOINTS/PLATES F= Front Side B= Back Side <u>ე</u> 2 NO.TRUSSES Major/Minor Xok XOK OK OK LUMBER CRITERIA OK S.C (S.C. denotes "See Comments") Major/Minor GRADE & SPECIES X ok OK OK S.C OK OK Major/Minor MEMBER XOK OK OK OK 6/12 6/12 TRUSS CONFIGURATION PITCH DEPTH **NON-CONFORMANCE CLASSIFICATIONS FOR THIS VISIT:** 51-4-0 36-0-0 SPAN B5 Attic 220233-A Piggyack TYPE/ID B8 220233-A

SHOP

SEAL

ING

LINE

SHOP

SEAL SHOP SEAL SHOP SEAL

Facility Missing 1 week of IQC records (minor). Reviewed joint blowup/QC details with Mike Lutz. Inspection with Mike Lutz. Lumber grades and plate sizes exceeded or met. Plant will remain in GOOD status.

COMMENTS:

SHOP

No other trusses available.

RECORDS REVIEW TALLY NOTES	ALLY NOTES	PREVIOUS	SIGNATURES
# SHIFTS:	# SETUP LOCATIONS:	GOOD / WARNING / ON NOTICE	PLANT Q.C.:
PLATE MANUFACTURER:	Mitek	STATUS: X	
ESR NUMBER ON PLA	ESR NUMBER ON PLATE BOXES: XYES	PI ANT STATIS (current andit)	Mike Lutz
GENERAL ATTRIBUTES	CONFORMING?		TP INSPECTOR:
INCOMING	INCOMING MATERIAL: XYES NO	WARNING	al Court
TRUSS STORAGEA	TRUSS STORAGE/HANDLING: XYES NO	ON NOTICE	TP INSPECTOR PRINTED NAME:
STAMP/TAG LEGIBILITY:	N/A YES NO	SUSPENDED	David Cervantes
Missing week PLANT Q.C.	PLANT Q.C. RECORDS: TYES XO	(Refer to TP QA Manual Section 13.0 for Plant Status Procedures)	REPORTS / SEALED DRAWINGS SEND TO: trussdivision@tpinspection.com
TP OFFICE NOTIFICATIONS	REQUESTED SEALED DRAWING FOR LINI	R LINE ITEM: A B C D	E (MINIMUM I SEALED DRAWING PER AUDIT REQUIRED)

E30-IR-TP MPCW Truss Audit Form-20200506F



CERTIFICATE OF ACCREDITATION

This is to attest that

TIMBER PRODUCTS INSPECTION, INC.

100 KEDRON DRIVE

PEACHTREE CITY, GEORGIA 30269, U.S.A.

Inspection Agency AA-696 (Type A)

has met the requirements of AC98, IAS Accreditation Criteria for Inspection Agencies, and has demonstrated compliance with ISO/IEC Standard 17020:2012, Conformity assessment - Requirements for the operation of various types of bodies performing inspection. This organization is accredited to provide the services specified in the scope of accreditation.

Effective date: July 2, 2020





President

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SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. I www.iasonline.org

TIMBER PRODUCTS INSPECTION, INC.

www.tpinspection.com

Contact Name Patrick C. Edwards

Contact Phone +1 770 922 8000

Accredited to ISO/IEC 17020:2012

Effective date: July 2, 2020

Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
Fabricated Products	
Basic Hardboard	CPA-EWST-QAM; ANSI A135.4
Cold Formed Steel Trusses	QUAL-PM Sec. 7.0; E30-PM-CFS Truss; E30-SOP-CFS Truss; AISI S214
Composite Wood Products – Formaldehyde Emissions	CPA-HCHO-QAM-EPA CTCS QP-13-2 CARB ATCM per CCR 93120 EPA TSCA Title VI
Cross Laminated Timber (CLT)	QUAL-PM Sec. 7.0; TP Inspection Procedures for CLT and ANSI/APA PRG 320 Standard for Performance-Rated Cross-Laminated Timber
Engineered Wood Siding	CPA-EWST-QAM; ANSI A135.6
Engineered Wood Trim	CPA-EWST-QAM; ANSI A135.7
Hardwood and Decorative Plywood – Formaldehyde Emissions	CPA-HCHO-QAM-EPA CTCS QP-13-2 per ANSI/HPVA HP-1
Metal Plate Connected Trusses	QUAL-PM Sec. 7.0; TP Quality Assurance Program for Metal Plate Connected Wood Trusses; ANSI/TPI 1 Standard
Mechanically Laminated Wood Assemblies	QUAL-PM Sec. 7.0; TP Inspection Procedure for Fingerjoints Used in Mechanically Laminated Wood Assemblies; ANSI/ASAE EP 559.1 Section 4.5
Non-Structural Use Panels: Particleboard and MDF	QUAL-PM Sec.7.0; TP Certification Requirements for Non-Structural Panels; ANSI A208.1 and A208.2
Prefinished Hardboard Paneling	QUAL-PM Sec. 7.0; CPA-EWST-QAM; ANSI A135.5
Structural Composite Lumber	QUAL-PM Sec 7.0; TP Quality Auditing Procedures for Lumber, TP Stud Use End Jointed Lumber QC Program; WWPA Glued Products Procedures (referencing ASTM D5456)
Structural Glued-Laminated Timber	QUAL-PM Sec. 7.0; TP Engineered Product Audit Procedure; AITC 200 Inspection Manual for Structural Glued Laminated Timbers; ANSI/AITC





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Field and Range of Inspection	Regulations, Inspection Methods, Standards and/or Specifications
	A190.1; AITC 200 Inspection Manual for Structural Glued-Laminated Timber
Structural Use Panels: Plywood, Composite Panels, OSB, and Other Approved Materials	QUAL-PM Sec. 7.0; TP M-4 Panel Certification; AS/NZS 2269; CSA 0325; CAN/CSA 0121; CAN/CSA 0151; United States Department of Commerce Product Standard PS-1, (Sections 5.7, 5.8.1, 5.8.2, 5.8.3, 5.8.4, 5.8.5, 5.9, 5.10, 5.11, 5.12, 7.3, 7.4, Appendix A- Species grouping, Appendix B- Reinspection Practices, Appendix D- Recommended Practices); United States Department of Commerce Product Standard PS-2 (Sections 5.2, 6.3.2, 8.0, Appendix A-Shipment Reinspection Practices, Appendix B-Performance Rated Panel Qualification for Roof, Subfloor, Single Floor and Wall Application, Appendix D - Recommended Thickness Labels)
Wood I-Joist	QUAL-PM Sec. 7.0; TP EWP-SOP-Wood I-Joist; ASTM D5055
Wood Wall and Floor Panel Assemblies	QUAL-PM Sec. 7.0; E31-DOC-MOCA Wood Wall Panel Plant Manual; E31-PM-MOCA Wood Wall Panel; E31-SOP-MOCA Wood Wall Panel; IBC Chapter 23; IRC Section 602
Fire Retardant/Preservative Treated Wood	
Preservative and Fire Retardant Treated Lumber and Plywood	QUAL-PM Sec. 7.0; TP TRT-SOP-TRT Inspection (referencing AWPA U1, T1, M2, M19, M21, M22, M23, M24 and M25); ICC-ES AC326; and TP FRT-SOP-FRTW Inspection (referencing ICC-ES AC66).
Grading of Wood Products	
Log Grading	QUAL-PM Sec. 7.0; TP E35-SOP-Log Home Program; TP Building Log Grading Rules; ASTM Standard D3957
Lumber Grading	QUAL-PM Sec. 7.0; TP E10-SOP-Lumber_ALSC; Voluntary Product Standard PS-20, American Softwood Lumber Standard
Manufacturing in fields specified above	ICC-ES AC304







ESR-1988

Reissued December 2020 Revised August 17, 2021 This report is subject to renewal December 2022.

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DIVISION: 06 00 00-WOOD, PLASTICS AND

COMPOSITES

Section: 06 17 53—Shop-Fabricated Wood Trusses

REPORT HOLDER:

MITEK® INC.

EVALUATION SUBJECT:

MITEK METAL TRUSS CONNECTOR PLATES: MII16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20, MT20HS™, AND M18AHS

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 International Residential Code® (IRC)

For evaluation for compliance with codes adopted by Los Angeles Department of Building and Safety (LADBS), see ESR-1988 LABC and LARC Supplement.

Property evaluated:

Structural

2.0 USES

MiTek metal truss connector plates are used as joint connector components of light wood-frame trusses.

3.0 DESCRIPTION

3.1 MiTek MII 16:

Model MII 16 metal truss connector plates are manufactured from minimum No. 16 gage [0.0575 inch total thickness (1.46 mm)], ASTM A653 SS, Grade 40 steel, with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0565 inch (1.44 mm). Slots 0.54 inch (13.7 mm) in length are punched along the perpendicular axis of the plates. The metal displaced by the slot is lanced and formed into two opposing teeth, protruding at right angles from the flat plate. Each tooth is diagonally cut, thereby forming a sharp point. The teeth are additionally shaped into a twisted concave form, facing the slot cutout area. Teeth are 0.16 inch (4.1 mm) wide and 0.37 inch (9.4 mm) long, and there are 4.8 teeth per square inch (0.0074 teeth per square millimeter) of plate area. Plates are available in 1-inch (25.4 mm) width increments, up to 12 inches (305 mm), and lengthwise in 11/4-inch (31.7 mm) multiples. See Figure 1 of this report for details.

3.2 MiTek TL18 and MT18:

Models TL18 and MT18 metal truss connector plates are manufactured from minimum No. 18 gage [0.0466 inch total thickness (1.18 mm)], ASTM A653 SS, Grade 40 steel, with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0456 inch (1.16 mm). The plates have teeth 3/8 inch (9.5 mm) long, punched in pairs formed at right angles to the face of the parent metal so that two teeth per hole occur along the length. The spacing along the longitudinal direction of each punched slot is 1 inch (25.4 mm) on center. The transverse centerlines of adjacent slots are staggered 0.10 inch (2.54 mm). The distance between longitudinal centerlines of the slots is 0.25 inch (6.35 mm). There are eight teeth per square inch (645 mm²) of surface area. Plates are available in ¹/₂-inch-width (12.7 mm) increments, up to 12 inches (304.8 mm), and lengthwise in 1-inch (25.4 mm) multiples. See Figure 2 for details.

3.3 MiTek MT18HS™:

Model MT18HS™ metal truss connector plates are manufactured from minimum No. 18 gage [0.0466 inch total thickness (1.18 mm)], ASTM A653, Grade high-strength, low-alloy steel (HSLAS) with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0456 inch (1.16 mm). The plate has teeth 3/8-inch long (9.5 mm), punched in pairs formed at right angles to the face of the parent metal so that two teeth per hole occur along the length. The spacing along the longitudinal direction of each punched slot is 1 inch (25.4 mm) on center. The transverse centerlines of adjacent slots are staggered 0.10 inch (2.54 mm). The distance between longitudinal centerlines of the slots is 0.25 inch (6.35 mm). There are eight teeth per square inch (645 mm²) of surface area. Plates are available in 1/2-inch-width (12.7 mm) increments, up to 12 inches (304.8 mm), and lengthwise in 1-inch (25.4 mm) multiples. See Figure 2 for details.

3.4 MiTek M18SHS™:

Model M18SHS™ metal truss connector plates are manufactured from minimum No. 18 gage [0.0466-inch (1.18 mm) total thickness], hot-dipped galvanized steel that meets the requirements of ASTM A653 SS, Grade 80 steel, with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base metal thickness of 0.0456 inch (1.16 mm). The plates have 3/8-inch-long (9.5 mm) teeth, punched in pairs formed at right angles to the face of the parent metal so that two teeth per hole occur along the length. The spacing along the longitudinal direction of each punched slot is 1 inch (25.4 mm) on center. The transverse centerlines of adjacent slots are staggered 0.10 inch (2.54 mm). The distance between longitudinal





centerlines of slots is 0.25 inch (6.35 mm). There are eight teeth per square inch (645 mm²) of surface area. Plates are available in $^{1}/_{2}$ -inch-width (12.7 mm) increments, up to 12 inches (304.8 mm), and lengthwise in 1-inch (25.4 mm) multiples. See Figure 2 for details.

3.5 MiTek TL20 and MT20™:

Models TL20 and MT20™ metal truss connector plates are manufactured from minimum No. 20 gage [0.0356 inch total thickness (0.9 mm)], ASTM A653 SS, Grade 40 steel, with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0346 inch (0.88 mm). The plates have teeth 3/8 inch (9.5 mm) long, punched in pairs formed at right angles to the face of the parent metal so that two teeth per hole occur along the length. The spacing along the longitudinal direction of each punched slot is 1 inch (25.4 mm) on center. The transverse centerlines of adjacent slots are staggered 0.10 inch (2.54 mm). The distance between longitudinal centerlines of the slots is 0.25 inch (6.35 mm). There are eight teeth per square inch (645 mm²) of surface area. Plates are available in 1/2-inch width (12.7 mm) increments, up to 12 inches (304.8 mm), and lengthwise in 1-inch (25.4 mm) multiples. See Figure 2 for details.

3.6 MiTek MT20HS™:

Model MT20HS™ metal truss connector plates are manufactured from minimum No. 20 gage [0.0356 inch total thickness (0.9 mm)], ASTM A653 Grade 60, high-strength, low-alloy steel with improved formability (HSLAS-F), with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0346 inch (0.88 mm). Repeating 3/4-inch-by-1-inch (19 mm by 25.4 mm) modules of teeth are stamped out and formed at right angles to the face of the parent metal. Each module has three slots, 0.45 inch (11.4 mm) long and 0.125 inch (3.2 mm) wide, fabricated by punching two teeth out of each slot area, and resulting in each module having six teeth. Each module is separated by a 0.25-inch-wide (6.4 mm) strip of unpunched steel. The transverse centerlines of adjacent slots are 0.15 inch (3.8 mm) in the longitudinal direction. Longitudinal centerlines of slots are spaced 0.25 inch (6.4 mm). Each slot has a 0.33-inch-long (8.4 mm) tooth at each end. Each tooth is additionally shaped, twisting an approximate 22 degrees to its point. See Figure 3 of this report for details.

3.7 MiTek M18AHS:

Model M18AHS metal truss connector plates are manufactured from minimum No. 18 gage [0.0466 inch total thickness (1.18 mm)], ASTM A653, Grade 60, high-strength, low-alloy steel (HSLAS) with a G60 galvanization coating [0.0005 inch thickness on each side (0.013 mm)] and having a base-metal thickness of 0.0456 inch (1.16 mm). The teeth are 3/8 inch long (9.5 mm), punched in pairs formed at right angles to the face of the parent metal so that two teeth per slot occur along the length. The spacing along the longitudinal direction of each punched slot is 1 inch (25.4 mm) on center. The transverse centerlines of adjacent slots are staggered 0.10 inch (2.54 mm). The distance between longitudinal centerlines of the slots is 0.25 inch (6.35 mm). The plates have repeating 0.75 inch x 1 inch (19.1 mm x 25.4 mm) modules of teeth. Each module has three slots with two teeth each. Each module is separated by a 0.25 inch (6.4 mm) wide strip of unpunched steel. There are six teeth per square inch (645 mm²) of surface area. Plates are available in 1-inch-width (25.4 mm) increments, up to 12 inches (304.8 mm), and lengthwise in 1 inch (25.4 mm) multiples. See Figure 4 for Model M18AHS metal truss connector plate details.

4.0 DESIGN AND INSTALLATION

4.1 General:

All MiTek metal truss connector plates are pressed into the wood for the full depth of their teeth by hydraulic-platen embedment presses, multiple roller presses that use partial embedment followed by full-embedment rollers, or combinations of partial embedment roller presses and hydraulic-platen presses that feed trusses into a stationary finish roller press. Trusses must be assembled within the tolerances provided by the Truss Plate Institute's (TPI) Quality Criteria for the Manufacture of Metal Plate Connected Wood Trusses, shown as Chapter 3 in ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction.

4.2 Allowable Design Values:

Allowable design values for MiTek metal truss connector plates to be used in the design of metal plate connected wood roof and floor trusses are shown in Tables 1 and 2. Allowable design values are applicable when the connection is made with identical plates on opposite sides of the joint. This evaluation report is limited to the evaluation of connection capacity of the MiTek metal truss connector plates listed in this report. The design, manufacture, and installation of trusses employing the truss plates have not been evaluated.

Allowable values shown in Tables 1 and 2 have not been adjusted for metal connector plates embedded in fire-retardant-treated or preservative-treated lumber. Proper adjustments must be made in accordance with the requirements indicated in a current ICC-ES evaluation report issued to the chemical treatment manufacturer. If the evaluation report does not contain information on the adjustments, the chemical manufacturer must be contacted for this information. Compliance with Section 2304.10.6 of the 2021 IBC (Section 2304.10.5 of the 2018 and 2015 IBC; Section 2304.9.5 of the 2012, 2009 and 2006 IBC) and Section R317.3 of the 2021, 2018, 2015, 2012 and 2009 IRC (Section R319.3 of the 2006 IRC) is also required.

5.0 CONDITIONS OF USE

The MiTek metal truss connector plates described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 This evaluation report and the manufacturer's published installation instructions, when required by the code official, must be submitted at the time of permit application. In the event of a conflict between the manufacturer's published installation instructions and this document, the instructions in this document govern.
- 5.2 Each application for a building permit, using these truss plate connectors, must be accompanied by documentation showing that the design, manufacture, and proposed installation conform to the requirements of the applicable code.
- 5.3 This report establishes plate design values only. For items not covered by this report, such as truss design, fabrication, quality assurance and special inspection, refer to ANSI/TPI 1, engineering drawings and the applicable code.
- 5.4 The design values (lateral resistance values, effective tension strength ratios, and effective shear resistance ratios) used in the design of trusses, using MiTek metal truss connector plates, must not exceed those listed in Tables 1 and 2 of this report. Load combination reductions must be in accordance with the applicable code.

- 5.5 All lumber used in the fabrication of trusses using MiTek metal truss connector plates must be graded in compliance with the applicable building code, and must have a moisture content not exceeding 19 percent at the time of assembly. Wet service factors from ANSI/TPI 1 Section 6.4 must be applied to the table values when the lumber moisture content exceeds 19 percent.
- 5.6 Metal truss connector plates must be installed in pairs on opposite faces of truss members.
- 5.7 Galvanized G60 metal truss plate connectors subject to corrosive environments must be protected in accordance with Section 6.5 of ANSI/TPI 1.
- 5.8 MiTek metal truss connector plates are manufactured in Hazelwood, Missouri; Tolleson, Arizona; Tampa, Florida; Edenton, North Carolina; and Bradford, Ontario, Canada, under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the National Design Standard for Metal Plate Connected Wood Truss Construction, ANSI/TPI 1-2002, 2007 and 2014.

- 6.2 Manufacturer's descriptive literature.
- 6.3 A quality control manual.

7.0 IDENTIFICATION

- 7.1 The MiTek metal truss connector plates are identified by an imprint of the plate name embossed into the surface of the plate (for example, the MT20™ plate is embossed "MT20"). Additionally, boxes containing the connector plates must be labeled with the MiTek name, the metal connector plate model, and either the evaluation report number (ESR-1988) or the number of the ICC-ES index evaluation report for MiTek (ESR-2685).
- **7.2** The report holder's contact information is the following:

MITEK INC. 16023 SWINGLEY RIDGE ROAD CHESTERFIELD, MISSOURI 63017 (800) 328-5934 www.mitek-us.com

TABLE 1—ALLOWABLE LATERAL RESISTANCE VALUES, HYDRAULIC-PLATEN EMBEDMENT³ (Ib/in²/PLATE)

LUMBER SPECIES	SG	AA	EA	AE	EE
		MII 1	6		
Douglas fir-larch	0.50	176	121	137	126
Hem-fir	0.43	119	64	102	98
Spruce-pine-fir	0.42	127	82	75	107
Southern pine	0.55	174	126	147	122
	TL18, MT	18, MT18HS™, M18	SHS™, TL20 and MT20) TM	
Douglas fir–larch	0.50	248	203	170	171
Hem-fir	0.43	188	159	133	141
Spruce-pine-fir	0.42	206	162	125	122
Southern pine	0.55	244	192	171	178
		MT20H	ISTM		
Douglas fir-larch	0.50	165	146	135	143
Hem-fir	0.43	139	111	97	109
Spruce-pine-fir	0.42	148	108	107	103
Southern pine	0.55	187	143	138	150
		M18A	HS		
Douglas fir–larch	0.50	169	162	125	145
Hem-fir	0.43	145	140	108	125
Spruce-pine-fir	0.42	142	136	105	122
Southern pine	0.55	186	179	138	160

For SI: $1lb/in^2 = 6.9 kPa$.

NOTES

¹Tooth-holding units = psi for a single plate (double for plates on both faces when applying to area on only one face). To achieve values, plates must be installed on opposite sides of joint.

²AA = Plate parallel to load, wood grain parallel to load.

EA = Plate perpendicular to load, wood grain parallel to load.

AE = Plate parallel to load, wood grain perpendicular to load.

EE = Plate perpendicular to load, wood grain perpendicular to load.

³All truss plates are pressed into the wood for the full depth of their teeth by hydraulic-platen embedment presses, multiple roller presses that use partial embedment followed by full-embedment rollers, or combinations of partial-embedment roller presses and hydraulic-platen presses that feed trusses into a stationary finish roller press.

TABLE 2—FFFECTIVE TENSION AND SHEAR RESISTANCE ALLOWABLE DESIGN VALUES

_							BRS22	200	279	Tru	ıss	App	rov	ed.	odf	05/24/23	Page 52 of 57
M18AHS	Pounds/ inch/Pair of Connector Plates		2,161	1,928		2,380	2,435	1,229	1,309	1,651	1,011	940	837		f ANSI/TPI 1.		
	Efficiency		0.643	0.574		0.708	0.725	0.623 2,094 0.584 2,522 0.654 1,144 0.697 1778 0.725	0.610	0.649	0.819	0.501	0.466	0.415		NOTES: **Minimum coated thickness is 0.0356 inch (0.904 mm) for 20 gage, or 0.0466 inch (1.184 mm) for 18 gage. Minimum coating thickness for G60 is 0.0010 inch (0.025 mm) total for both sides in accordance with Section 6.3.4.1.3 of ANSI/TPI 1. **Minimum Net Section – A line through the plate's tooth pattern with the minimum amount of steel for a specified orientation. For these plates, this line passes through a line of holes. **Maximum Net Section – A line through the plate's tooth pattern with the maximum amount of steel for a specified orientation. For these plates, this line passes through a section of the plate with no holes.	
MT20HS™	Pounds/ inch/Pair of Connector Plates		1590	1333		1712	1778		761	1085	1184	792	809	537			
	Efficiency		0.624	0.523		0.671	0.697		0.43	0.61	0.67	0.45	0.34	0.3			
TL20 AND MT20™	Pounds/ inch/Pair of Connector Plates	er the joint) ²	873	860	ver the Joint) ³	1,100	1,144		604	876	920	989	498	592			
MII 16 TL18 AND MT18 MT18HS™ M18SHS™ TL20 AND MT20™	Efficiency	ce with Section 5.4.4.2 of TPI-1 (Minimum Net Section over the joint) ²	0.499	0.492	with Section 5.4.4.2.1 of TPI-1 (Maximum Net Section Over the Joint) ³	0.629	0.654		0.51	0.74	0.82	0.58	0.42	0.5			
	Pounds/ inch/Pair of Connector Plates	1 (Minimum N	2,299	2,301	-1 (Maximum	2,502	2,522		1,363	1,482	1,805	1,012	1,073	898			
	Efficiency	5.4.4.2 of TPI-	0.532	0.533	4.4.2.1 of TPI-	0.579	0.584		0.53	0.57	0.7	0.39	0.41	0.33			
	Pounds/ inch/Pair of Connector Plates	with Section &	1,809	1,847	ith Section 5.4	2,060	2,094		1,099	1,153	1,492	1,052	802	745			
	Efficiency	accordance	0.538	0.550		0.613	0.623		0.55	0.57	0.74	0.52	0.4	0.37			
	Pounds/ inch/Pair of Connector Plates	Tension values in accordan	1,149	1,208	Tension Values in Accordance	1	1		874	1,023	1,283	757	809	702			
	Efficiency	Ter	0.50	0.52	Tensi	I	I		0.56	99.0	0.83	0.49	0.39	0.45			
	Pounds/ inch/Pair of Connector Plates		1982	857		I	1		1041	1173	1402	1055	914	672	h = 25.4 mm.		
	Efficiency		0.694	0.300		ı	I		0.54	0.61	0.73	0.55	0.48	0.35	75 N/mm, 1 inc		
	PROPERTY FORCE DIRECTION		Tension @ 0°	Tension @ 90°		Tension @ 0° SG=0.42	Tension @ 0° SG=0.50		Shear @ 0°	Shear @ 30°	Shear @ 60°	Shear @ 90°	Shear @ 120°	Shear @ 150°	For SI: 1 lb/inch = 0.175 N/mm, 1 inch = 25.4 mm.	NOTES: ¹Minimum coated thickn ²Minimum Net Section - ³Maximum Net Section -	

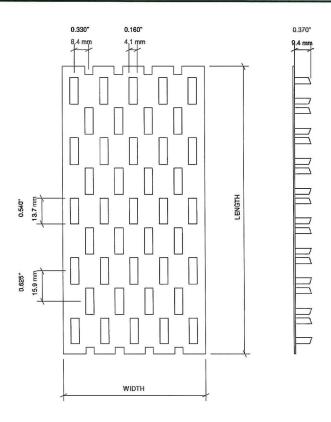


FIGURE 1—APPROXIMATE DIMENSIONS OF MITEK CONNECTOR PLATE MODEL MII 16

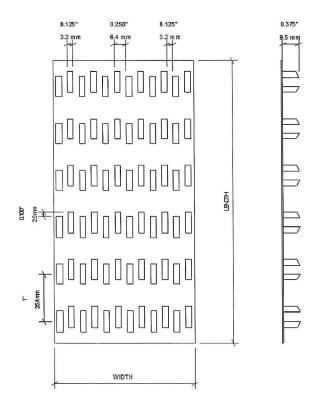


FIGURE 2—APPROXIMATE DIMENSIONS OF MITEK CONNECTOR PLATE MODELS TL18, MT18, MT18HS, MT18SHS TL20 AND MT20

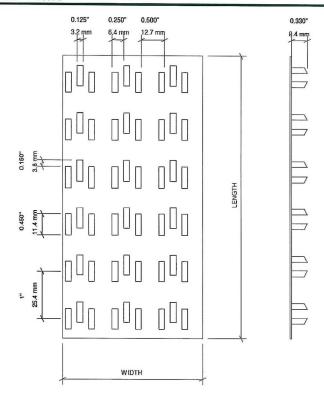


FIGURE 3—APPROXIMATE DIMENSIONS OF MITEK CONNECTOR PLATE MODEL MT20HS™

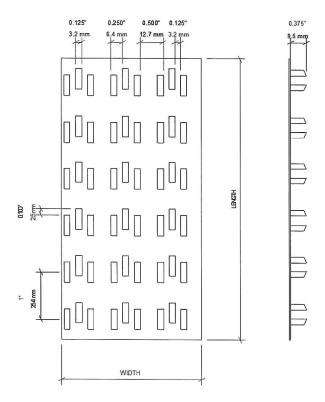


FIGURE 4—APPROXIMATE DIMENSIONS OF MITEK CONNECTOR PLATE MODEL M18AHS



ESR-1988 LABC and LARC Supplement

Reissued December 2020 Revised August 17, 2021

This report is subject to renewal December 2022.

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DIVISION: 06 00 00—WOOD, PLASTICS, AND COMPOSITES

Section: 06 17 53—Shop-Fabricated Wood Trusses

REPORT HOLDER:

MITEK INC.

EVALUATION SUBJECT:

MITEK METAL TRUSS CONNECTOR PLATES: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, AND M18AHS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the MiTek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, and M18AHS, described in ICC-ES evaluation report ESR-1988, have also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

- 2020 City of Los Angeles Building Code (LABC)
- 2020 City of Los Angeles Residential Code (LARC)

2.0 CONCLUSIONS

The MiTek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, and M18AHS, described in Sections 2.0 through 7.0 of the evaluation report ESR-1988, comply with the LABC Chapter 23, and the LARC, and are subjected to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The MiTek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, and M18AHS described in this evaluation report supplement must comply with all of the following conditions:

- All applicable sections in the evaluation report ESR-1988.
- The design, installation, conditions of use and labeling are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report ESR-1988.
- The design, installation and inspection are in accordance with additional requirements of LABC Chapters 16, 17 and 23, and LARC Section R802, as applicable.
- Metal connector plate teeth within ¹/₂ inch (12.7 mm) of the ends of truss wood members must be considered ineffective to carry any load.
- Under the LARC, an engineered design in accordance with LARC Section R301.1.3 must be submitted

This supplement expires concurrently with the evaluation report, reissued December 2020 and revised August 17, 2021.





ESR-1988 CBC and CRC Supplement

Issued February 2021 Revised August 17, 2021 This report is subject to renewal December 2022.

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A Subsidiary of the International Code Council®

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 17 53—Shop-Fabricated Wood Trusses

REPORT HOLDER:

MITEK® INC.

EVALUATION SUBJECT:

MITEK METAL TRUSS CONNECTOR PLATES: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20, MT20HS™, AND M18AHS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that the Mitek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20, MT20HS™, and M18AHS, described in ICC-ES evaluation report ESR-1988, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

■ 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

■ 2019 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Mitek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20, MT20HS™, and M18AHS, described in Sections 2.0 through 7.0 of the evaluation report ESR-1988, comply with CBC Chapter 23, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report, and the additional requirements of CBC Chapters 16, 17 and 23, as applicable.

- 2.1.1 OSHPD: The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.
- 2.1.2 DSA: The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Mitek Metal Truss Connector Plates: MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20, MT20HS™, and M18AHS, described in Sections 2.0 through 7.0 of the evaluation report ESR-1988, comply with CRC Sections R502.11 and R802.10, provided the design and installation are in accordance with the 2018 International Residential Code® (2018 IRC) provisions noted in the evaluation report and the additional requirements of CRC Chapters 5 and 8, as applicable.

This supplement expires concurrently with the evaluation report, reissued December 2020 and revised August 17, 2021.





ESR-1988 FBC Supplement

Reissued December 2020 Revised August 17, 2021 This report is subject to renewal December 2022.

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A Subsidiary of the International Code Council®

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES Section: 06 17 53—Shop-Fabricated Wood Trusses

REPORT HOLDER:

MITEK INC.

EVALUATION SUBJECT:

MITEK METAL TRUSS CONNECTOR PLATES: TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™ AND M18AHS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that MiTek Metal Truss Connector Plates MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, and M18AHS, described in ICC-ES evaluation report ESR-1988, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2020 Florida Building Code—Building
- 2020 Florida Building Code—Residential

2.0 CONCLUSIONS

The MiTek Metal Truss Connector Plates MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™, and M18AHS, described in Sections 2.0 through 7.0 of the evaluation report ESR-1988, comply with the Florida Building Code— Building and the Florida Building Code—Residential, provided the design requirements are determined in accordance with the Florida Building Code—Building or the Florida Building Code—Residential, as applicable. The installation requirements noted in ICC-ES evaluation report ESR-1988 for the 2018 International Building Code® meet the requirements of the Florida Building Code—Building or the Florida Building Code—Residential, as applicable, with the following condition:

Compliance with Section 2304.10.5 of the Florida Building Code—Building and Section R317.3 of the Florida Building Code—Residential is required as described in Section 4.2 of the evaluation report ESR-1988.

Use of the MiTek Metal Truss Connector Plates MII 16, TL18, MT18, MT18HS™, M18SHS™, TL20, MT20™, MT20HS™. and M18AHS has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and the Florida Building Code—Residential with the following condition:

a) For connections subject to uplift, the connection must be designed for no less than 700 pounds (3114 N).

For products falling under Florida Rule 61G20-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official, when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the evaluation report, reissued December 2020 and revised August 17, 2021.

