

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: 210573 Lot 16 OS

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I52206505 thru I52206505

My license renewal date for the state of Kansas is April 30, 2024.

Kansas COA: E-943



May 27,2022

Garcia, Juan

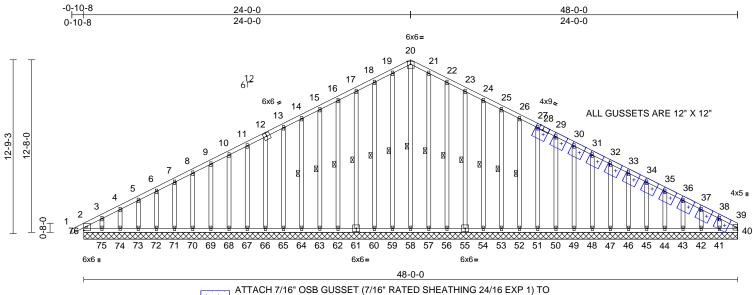
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

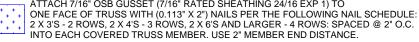
Job	Truss	Truss Type	Qty	Ply	Lot 16 OS	Units: 1.0 Eng: TH	152206505
210573	E6	Common Supported Gable	2	1	Job Reference (optional)		

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu May 26 16:39:24 ID:8P?dvieKSizfLw20bjyFd2znq1v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

## REPAIR: PLATE DAMAGED ON ONE FACE AT JOINTS 27, 29, 30, 31, 32, 33, 34, 35, 36, 37, AND 38.





## Scale = 1:84.6 Plate Offsets (X, Y): [28:0-3-7,Edge]

		,	·	FORCES	(lb) - Max Tension	imum Compressi	on/Maximum					May	27,2022
	Max Horiz	72=120/48 74=129/48 76=155/48		,		68=120 (LC 1), 70=120 (LC 1), 72=120 (LC 1), 74=129 (LC 1), 76=227 (LC 17)	69=120 (LC 2 <sup>-</sup> 71=120 (LC 2 <sup>-</sup> 73=118 (LC 2 <sup>-</sup>	1), 1), 1),				PROXESSION	ARCIA NSEO 52 ALENGINI
		66=120/48 68=120/48	3-0-0, 65=118/48-0-0 3-0-0, 67=122/48-0-0 3-0-0, 69=120/48-0-0	, ,		62=120 (LC 1), 64=120 (LC 1), 66=120 (LC 1),	63=120 (LC 2 <sup>-</sup> 65=118 (LC 2 <sup>-</sup>	1), 1),				Pp 169	952 E
		60=120/48 62=120/48	8-0-0, 61=120/48-0-0 8-0-0, 63=120/48-0-0	, ,		56=122 (LC 22) 58=233 (LC 9), 60=121 (LC 21)	59=123 (LC 1)	),					
		56=120/48	3-0-0, 55=120/48-0-0 3-0-0, 57=123/48-0-0 3-0-0, 59=123/48-0-0	,		52=120 (LC 22) 54=120 (LC 1),	53=120 (LC 2 55=120 (LC 1)	22), ),				UAN CE	NSEA
		50=120/48	3-0-0, 49=120/48-0-0 3-0-0, 51=120/48-0-0 3-0-0, 53=120/48-0-0	3		46=120 (LC 1), 48=120 (LC 1), 50=120 (LC 1),	47=120 (LC 22 49=120 (LC 22	2), 2),					
		44=120/48	3-0-0, 43=120/48-0-0 3-0-0, 45=120/48-0-0 3-0-0, 47=120/48-0-0	,	Max Grav	40=148 (LC 9), 42=119 (LC 1), 44=120	43=120 (LC 22	2),					
REACTIONS	(lb/size)	40=48/48-	23-55, 24-54, 25-53, 26-52 ·0-0, 41=126/48-0-0, 3-0-0, 43=120/48-0-0			72=-35 (LC 8), 7 74=-10 (LC 9), 7 76=-58 (LC 4)	5=-161 (LC 8	),			37-38:	=-156/30, 38-39=	-206/33, 39-40=-104/5
WEBS	6-0-0 oc purlins, except end verticals. RD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 20-58, 19-59, 18-60, 17-61, 16-62, 15-63, 14-64, 21-57, 22-56,					66=-35 (LC 8), 6 68=-36 (LC 8), 6 70=-36 (LC 8), 7	67=-37 (LC 8), 69=-36 (LC 8), 71=-36 (LC 8),				29-30=-2 31-32=-2 34-35=-6	)=-27/122, 30-31=-27/105, 2=-27/87, 32-33=-35/70, 33-34=-51/53, 5=-68/40, 35-36=-98/33, 36-37=-130/30,	
BOT CHORD						60=-46 (LC 8), 6 62=-36 (LC 8), 6 64=-36 (LC 8), 6	3=-36 (LC 8),				22-23=-27/274, 23-24=-27/243, 24-25=-27/213, 25-26=-27/182, 26-27=-27/156, 27-29=-27/139,		
BRACING TOP CHORD						54=-36 (LC 9), 5 56=-48 (LC 9), 5	55=-37 (LC 9), 59=-6 (LC 8),				18-19=-34/329, 19-20=-33/328, 20-21=-32/322, 21-22=-30/309,		
OTHERS	SPF No.2 2x4 SPF No.2					50=-36 (LC 9), 51=-36 (LC 9), 52=-36 (LC 9), 53=-36 (LC 9),					14-15=-41/255, 15-16=-34/272, 16-17=-34/289, 17-18=-34/307,		
BOT CHORD WEBS	2x4 SPF No.2 2x4 SPF 2400F 2.0E *Except* 39-40:2x3					44=-35 (LC 9), 4 46=-36 (LC 9), 4 48=-36 (LC 9), 4	45=-36 (LC 9), 47=-36 (LC 9),			(	3-4=-236/96, 4-5=-211/104, 5-6=-180/113, 6-7=-149/121, 7-8=-127/134, 8-9=-106/151, 9-10=-84/168, 10-11=-73/185, 11-13=-64/220, 13-14=-49/237,		
LUMBER TOP CHORD		10.2			Max Uplift	40=-3 (LC 20), 4 42=-16 (LC 9), 4		<i>, , , , , , , , , ,</i>	TOP CH	IORD		-181/54, 1-2=0/32	
BCLL BCDL		0.0* 10.0	Rep Stress Incr Code	YES IRC2018/TPI2014	WB Matrix-I	0.15 R	Horz(CT)	0.01	40	n/a	n/a	Weight: 369 lb	FT = 10%
TCLL (roof) TCDL		25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.10 0.08	Vert(LL) Vert(CT)	n/a n/a	-	n/a n/a	999 999	MT20	197/144

tinued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty Ply Lot 16 OS		Lot 16 OS		
210573	E6	Common Supported Gable	2	1	Job Reference (optional)	152206505	
Wheeler Lumber, Waverly, KS -	66871,	Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Thu May 26 16:39:24				Page: 2	

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Wheeler Lumber, Waverly, KS - 66871,

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BO	DT CHORD 75 73 74 69 67 65 63 60 56 56 56 53 51 49 43 47 45 43 43 43 43 43 43 43 43 43 43 43 43 43	$\begin{array}{l} 5.76=-31/172,\ 74-75=-31/172, \\ 5.74=-31/172,\ 72-73=-31/172, \\ 7.72=-31/172,\ 70-71=-31/172, \\ 68=-31/172,\ 66-67=-31/172, \\ 66=-31/172,\ 66-65=-31/172, \\ 66=-31/172,\ 62-63=-31/172, \\ 64=-31/172,\ 52-63=-31/172, \\ 65=-31/172,\ 57-58=-31/172, \\ 65=-31/172,\ 57-58=-31/172, \\ 65=-31/172,\ 57-58=-31/172, \\ 65=-31/172,\ 52-53=-31/172, \\ 65=-31/172,\ 52-53=-31/172, \\ 64=-31/172,\ 48-49=-31/172, \\ 64=-31/172,\ 48-49=-31/172, \\ 64=-31/172,\ 44-45=-31/172, \\ 64=-31/172,\ 42-43=-31/172, \\ 64=-31/172,\ 40-41=-31/172, \\ 64=-31/172,\ 40-41=-31/172, \\ 64=-93/53,\ 16-62=-93/52,\ 15-63=-93/52, \\ \end{array}$					
	11 8- 5- 21 24 27 31 34	I-64=-93/52, 13-65=-92/52, 12-66=-94/51, -67=-95/53, 10-68=-93/52, 9-69=-93/52, 70=-93/52, 7-71=-93/52, 6-72=-94/52, 73=-92/55, 4-74=-100/39, 3-75=-72/118, -57=-96/13, 22-56=-95/64, 23-55=-93/53, I-54=-93/52, 25-53=-93/52, 26-52=-93/52, -51=-93/52, 29-50=-93/52, 30-49=-93/52, -48=-93/52, 32-47=-93/52, 33-46=-93/52, -48=-93/52, 35-44=-93/52, 36-43=-93/54, '-42=-93/43, 38-41=-98/96					
NO	DTES						
1)	Unbalanced ro this design.	of live loads have been considered for					
2)	Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed ; end vertical left and						
3)	right exposed; 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)	All plates are 2x4 MT20 unless otherwise indicated.						
5)	Gable requires	s continuous bottom chord bearing.					
6)	Truss to be ful braced agains	ly sheathed from one face or securely t lateral movement (i.e. diagonal web).					
7)		paced at 1-4-0 oc.					
8)	chord live load	This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.					
9)	* This truss has been designed for a live load of 20.0psf						

- 9) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 76, 3 lb uplift at joint 40, 6 lb uplift at joint 59, 46 lb uplift at joint 60, 37 lb uplift at joint 61, 36 lb uplift at joint 62, 36 lb uplift at joint 63, 36 lb uplift at joint 64, 36 lb uplift at joint 65, 35 lb uplift at joint 66, 37 lb uplift at joint 67, 36 lb uplift at joint 68, 36 lb uplift at joint 69, 36 lb uplift at joint 70, 36 lb uplift at joint 71, 35 lb uplift at joint 72, 42 lb uplift at joint 73, 10 lb uplift at joint 74, 161 lb uplift at joint 75, 48 lb uplift at joint 56, 37 lb uplift at joint 55, 36 lb uplift at joint 54, 36 lb uplift at joint 53, 36 lb uplift at joint 52, 36 lb uplift at joint 51, 36 lb uplift at joint 50, 36 lb uplift at joint 49, 36 lb uplift at joint 48, 36 lb uplift at joint 47, 36 lb uplift at joint 46, 36 lb uplift at joint 45, 35 lb uplift at joint 44, 41 lb uplift at joint 43, 16 lb uplift at joint 42 and 127 lb uplift at joint 41.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

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