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I72865791 H2

MiTek, Inc. RE: P250045-04 - Roof - Repair H2 16023 Swingley Ridge Rd. Site Information: Chesterfield, MO 63017 Project Customer: Clayton Properties Project Name: Woodbridge - Craftsman 314.434.1200 Lot/Block: 158 Subdivision: Highland Meadows Model: Address: 2709 SW 12th St City: Lee's Summit State: MO General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions): Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6 Wind Code: ASCE 7-16 Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 45.0 psf Exposure Category: C Mean Roof Height (feet): 35 No. Seal# **Truss Name Date**

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

4/21/25

Truss Design Engineer's Name: Lu, Jie

My license renewal date for the state of Missouri is December 31, 2026.

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

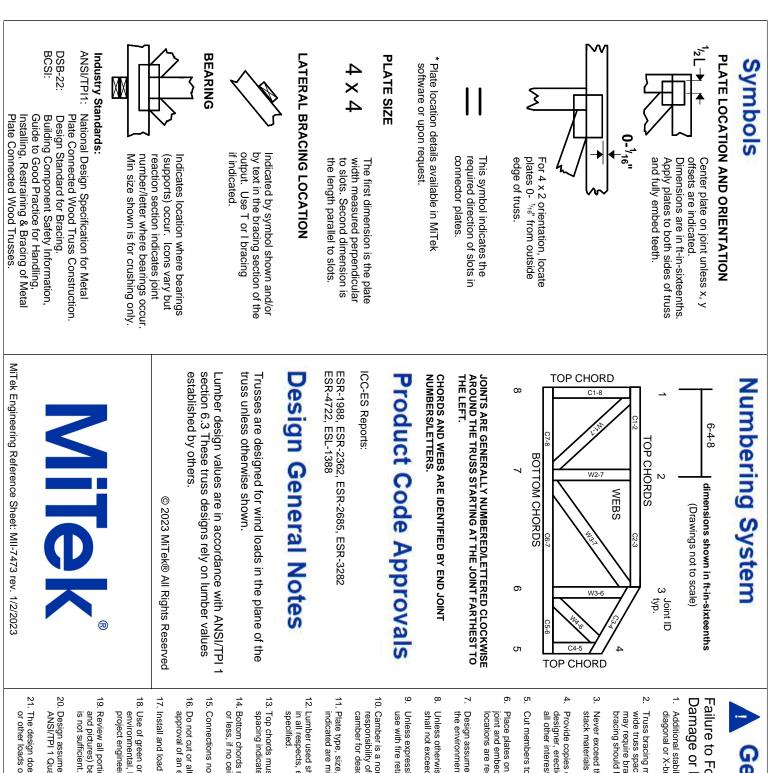


April 21,2025

o Tru	uss	Truss Type	Qty	Ply	Roof - Repair	r H2	120005204
50045-04 H2	2	Нір	1	1	Job Reference	ce (optional)	172865791
nier Building Supply (Springhill, K PAIR: -8 REMOVED FROM TOP EDG				Zlrv-RfC?Ps D CONNEC	B70Hq3NSgPqnL		Doi7J4zJC?f
					DDED AND UND		
	-0-11-0	7-11-4	12-8-12 4-9-8	2		20-8- 7-11-	4
	0-11-0	<i>I</i> - I I - I	4-5-0			7 - 1 1-4	4 0-11-
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0-1-9					5		3x4 ≈
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3-2-12	3x4 =		+ + + + + + + + + + + + + + + + + + +	+ + + + + + + + + +	· + + + + + + + + + + + + + + + + + + +		3x4 =
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	\bigotimes	11	10		9		×
	4x6 II	1.5	5x4 II 3x4 =		3x4 =		4x6 u
+ + + + + 2 X 3'S - 2 RO + + + + + NAILS TO BE	CE OF TRUSS WITH (0.131" WS, 2 X 4'S - 3 ROWS, 2 X DRIVEN FROM BOTH FACE	ED SHEATHING 24/16 EXP 1) ' X 2.5" MIN.) NAILS PER THE FOLLOW 6'S AND LARGER - 4 ROWS: SPACED ES. STAGGER SPACING FROM FRONT OVERED TRUSS MEMBER. USE 2" ME	@ 4" O.C. I TO BACK FACE			STALL 2 X 4 SPF/I JT TO FIT TIGHT.	DF/SP NO.2
	1	7-10-0	12-10-0)	1	20-8-	-0
ale = 1:42.4		7-10-0	5-0-0	-		7-10-	
e Offsets (X, Y): [2:0-4-5,Ed							
ding (psf .L (roof) 25.0 DL 10.0	0 Plate Grip DOL 0 Lumber DOL	2-0-0 CSI 1.15 TC 1.15 BC	0.88 Vert(0.68 Vert(LL) -0 CT) -0	.12 2-11 > .26 2-11 >	999 240 MT: 971 180	ATES GRIP 20 197/144
L 0.0 DL 10.0		YES WB IRC2018/TPI2014 Matrix-S	0.17 Horz	(CT) 0	.05 7	n/a n/a We	ight: 87 lb FT = 20%
4-1-2 ACING P CHORD Structural wood except 2-0-0 oc purlins T CHORD Rigid ceiling dire bracing. ACTIONS (size) 2=0-3 Max Horiz 2=54 Max Uplift 2=-22 Max Grav 2=994 RCES (lb) - Maximum C P CHORD 1-2=-4/0, 2-4=-1 5-7=-1789/600, 7 C CHORD 2-11=-450/1600, 7-9=-464/1600	2 (LC 8), 7=-222 (LC 9) 4 (LC 1), 7=994 (LC 1) Compression/Maximum 789/574, 4-5=-1596/625, 7-8=-4/0 , 9-11=-452/1595, =-203/204, 5-9=0/261 have been considered for mph (3-second gust) ; BCDL=6.0psf; h=35ft; losed; MWFRS (envelope) ior(2E) -0-11-0 to 4-1-0, Exterior(2E) 7-11-4 to 2 to 19-9-9, Interior (1) ever left and right exposed	bearing plate capable of w joint 2 and 222 lb uplift at j 7) This truss is designed in a International Residential C R802.10.2 and referenced 8) Graphical purlin represent or the orientation of the pu bottom chord. LOAD CASE(S) Standard	rent with any other I to be SP No.2 crust ection (by others) of ithstanding 222 lb t oint 7. ccordance with the code sections R502 standard ANSI/TPI ation does not depire	ive loads. hing truss to uplift at 2018 11.1 and 1. ct the size		* PROF	TE OF MISSOUR JIE LU NUMBER PE-029327

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MITEk® connectors. This design is based only upon parameters shown, and is for an individual building component, not
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org)
and BCSI Building Component Safety Information
available from the Structural Building Component Association (www.sbcscomponents.com)



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- 1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.