

Trenco 818 Soundside Rd Edenton, NC 27932

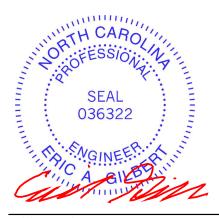
Re: 242424DS1 Garman Homes-Wisteria A & B WUA

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carolina Structural Systems, LLC.

Pages or sheets covered by this seal: I69458178 thru I69458178

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



November 8,2024

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Garman Homes-Wisteria A & B WUA	169458178
242424DS1	B01	Attic	4	1	Job Reference (optional)	

Carolina Structural Systems (Star, NC)), Ether, NC - 27247,

10-3-13

Scale = 1:69.6

Loading

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

TOP CHORD

BOT CHORD

REACTIONS

JOINTS

FORCES

TOP CHORD

BOT CHORD

LUMBER

TOP CHORD

BOT CHORD

TCLL (roof)

Run: 8 73 S. Oct 31 2024 Print: 8 730 S. Oct 31 2024 MiTek Industries. Inc. Thu Nov 07 11:59:36 ID:HTMWNfK92Alzi6?INMH1WQyolog-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f REPAIR: REPLACE VERTICAL 13-17 FROM JOINT 17 TO 1' ABOVE JOINT 13. -0-10-8 36-0-8 5-6-8 10-9-7 24-4-9 29-7-8 35-2-0 17-7-0 0-10-8 6-9-9 6-9-9 5-6-8 5-3-0 5-3-0 5-6-8 0-10-8 6x8= 2x4 II 6x8= 5 29 30 6 31 32 7 16"X36' INSTALL 2 X 4 SP NO.2 3<u>-0-</u>0 CUT TO FIT TIGHT. 12 10 18 5x8= 4x5 🖌 4x5. 338 **⊿**28 10-2-11 8-2-4 4x5 🖌 27 34 4x5、 3 9 2 \sim 4 16"X36 15 14 13 12 2x4 ı 8x8= 8x8= 2x4 🛛 4x12 🛚 4x5= 4x5 =4x12 II 5-6-8 11-1-0 24-1-0 29-7-8 35-2-0 5-6-8 5-6-8 13-0-0 5-6-8 5-6-8 Plate Offsets (X, Y): [2:0-4-0,0-4-2], [5:0-4-0,0-3-4], [7:0-4-0,0-3-4], [10:0-4-0,0-4-2], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8] Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) (loc) 20.0 Plate Grip DOL 1.00 TC 0.47 Vert(LL) -0.24 13-14 >999 360 MT20 244/190 10.0 Lumber DOL 1.15 BC 0.87 Vert(CT) -0.37 13-14 >999 240 Rep Stress Incr WB Horz(CT) 0.0 YES 0.44 0.05 10 n/a n/a 10.0 Code IRC2015/TPI2014 Matrix-AS Wind(LL) -0.12 >999 240 Weight: 317 lb FT = 20% 14-15 ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 1) 2x6 SP No.1 TO EACH FACE OF TRUSS WITH (0.131" X 2.5" MIN.) NAILS PER THE FOLLOWING NAIL SCHEDULE: 2 X 3'S - 2 ROWS, 2 X 4'S - 3 ROWS, 2 X 6'S AND LARGER - 4 ROWS: SPACED @ 4" O.C. 2x6 SP No.1 *Except* 14-13:2x10 SP No.1 2x4 SP No.2 *Except* 18-6:2x4 SP No.3 NAILS TO BE DRIVEN FROM BOTH FACES. STAGGER SPACING FROM FRONT TO BACK FACE FOR A NET 2" O.C. SPACING IN EACH COVERED TRUSS MEMBER. USE 2" MEMBER END DISTANCE. Left 2x6 SP No.1 -- 1-6-0, Right 2x6 SP No.1 -- 1-6-0 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Structural wood sheathing directly applied. B=45ft; L=35ft; eave=5ft; Cat. II; Exp B; Enclosed; except MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-0-0 oc purlins (3-11-14 max.): 5-7. 2-7-11, Interior (1) 2-7-11 to 10-10-7, Exterior (2) 10-10-7 Rigid ceiling directly applied. to 15-10-2, Interior (1) 15-10-2 to 24-3-9, Exterior (2) 1 Brace at Jt(s): 18 24-3-9 to 29-3-4, Interior (1) 29-3-4 to 36-0-8 zone; (size) 2=0-3-8, 10=0-3-8 cantilever left and right exposed : end vertical left and Max Horiz 2=-188 (LC 10) right exposed:C-C for members and forces & MWFRS Max Grav 2=1916 (LC 18), 10=1916 (LC 19) for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60(lb) - Maximum Compression/Maximum 3) Provide adequate drainage to prevent water ponding. Tension 4) This truss has been designed for a 10.0 psf bottom 1-2=0/34, 2-4=-2315/0, 4-5=-2256/33, chord live load nonconcurrent with any other live loads. 5-6=-2953/122 6-7=-2953/122 * This truss has been designed for a live load of 20.0psf 5) 7-8=-2256/33, 8-10=-2316/0, 10-11=0/34 ATH CA on the bottom chord in all areas where a rectangle 2-15=0/1781, 12-15=0/1802, 10-12=0/1640 3-06-00 tall by 2-00-00 wide will fit between the bottom 4-14=-148/303, 14-16=0/804, 5-16=0/862, chord and any other members. 13-17=0/804, 7-17=0/862, 8-13=-148/303, Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18 6) 16-18=-99/38, 17-18=-99/38, 6-18=-148/114, Bottom chord live load (40.0 psf) and additional bottom 7) 4-15=-246/96, 8-12=-247/96, 5-18=-71/1612, chord dead load (5.0 psf) applied only to room. 13-14 7-18=-71/1612 All bearings are assumed to be SP No.1 .

NOTES

WEBS

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

- This truss design requires that a minimum of 7/16' 9) structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.
- LOAD CASE(S) Standard

8)



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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 bilding 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.sbcacomponents.com)



Edenton, NC 27932

