

Trenco

818 Soundside Rd Edenton, NC 27932

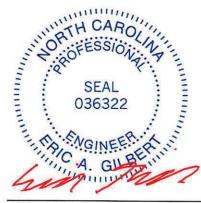
Re: J0325-1347 Lot 1 Mabry Ridge

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I74375158 thru I74375159

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



June 23,2025

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 Lot 1 Mabry Ridge Ply J0325-1347 174375158 A2 Piggyback Base 6 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, Run: 8.63 E Jul 12 2024 Print: 8.630 E Jul 12 2024 MiTek Industries, Inc. Mon Jun 23 12:16:24 REPAIR: REPLACE WEB 3-16. TRUSS A2 INSTALLED IN PLACE OF A03 Page: 1 ID:2GNsYO62BI49KgBFP3SImayOXVO-fySX281ZFngmqFSen2xTWKHjt1c4VVbvrYE?aHz3PCL 5-7-10 10-11-13 20-9-8 24-11-3 28-9-4 34-9-4 41-10-0 40-11-0 5-7-10 5-4-2 9-9-11 4-1-12 3-10-0 6-0-0 6-1-12 0-11-0 5x8= 2x4 M18AHS 6x12 II 3 19 20 INSTALL 2 X 4 SP NO.2 CUT TO FIT TIGHT. 812 4x6 4x4 4x8 2 18 4x6 ,10 <u>/</u> 24 24"X48" 16 14 24"X32" 23 15 25 13 27 11 12 28 5x5= 4×4= 4x8= 4x8= 4x8= 2x6 II 4x6= 11-1-9 20-9-8 28-9-4 34-9-4 40-11-0 11-1-9 9-7-15 7-11-12 6-0-0 6-1-12 Scale = 1:74.7 Plate Offsets (X, Y): [3:0-5-4,0-2-12], [5:0-4-0,0-3-12], [9:Edge,0-1-11] Loading (psf) Spacing 2-0-0 CSI DEFL in (loc) I/defl L/d **PLATES** GRIP TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.19 16-17 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.61 Vert(CT) -0.28 16-17 >999 240 M18AHS 186/179 BCLL 0.0 Rep Stress Incr NO WB 0.59 Horz(CT) 0.01 12 n/a n/a BCDL 10.0 Code IRC2021/TPI2014 Matrix-S Wind(LL) 0.04 Weight: 338 lb 14-16 >999 240 FT = 20% LUMBER TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2 *Except* 17-1:2x6 SP No.1

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.): 3-5.

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

bracing.

WEBS 1 Row at midnt 3-14, 4-14, 2-17, 6-12 REACTIONS (lb/size) 9=242/0-3-0, 12=2041/0-3-8,

17=1017/0-3-8

Max Horiz 17=-262 (LC 8)

Max Uplift 9=-74 (LC 8), 12=-178 (LC 8),

17=-21 (LC 12)

Max Grav 9=274 (LC 26), 12=2520 (LC 2),

17=1273 (LC 19)

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

(lb) or less except when shown. 2-3=-1020/199, 3-19=-468/168,

TOP CHORD 19-20=-467/168, 4-20=-467/168,

4-5=-468/168, 5-6=-565/170, 6-21=-147/710,

7-21=-147/686, 7-8=-171/652, 8-22=-92/419,

9-22=-132/365

BOT CHORD 17-23=-148/843, 23-24=-148/843,

16-24=-148/843, 15-16=-84/888, 15-25=-84/888, 14-25=-84/888,

14-26=-591/315, 13-26=-591/315, 12-13=-591/315, 12-27=-296/114, 11-27=-296/114, 11-28=-296/114,

9-28=-296/114

WEBS 3-16=-8/604, 3-14=-565/88, 4-14=-465/188,

6-14=-187/1484, 8-12=-530/445, 8-11=-292/238, 2-17=-1045/122,

6-12=-1838/384

ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 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 4'S AND LARGER - 4 ROWS: SPACED @ 4" O.C.
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.

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior (1) 4-7-9 to 10-11-13, Exterior(2R) 10-11-13 to 17-2-7, Interior (1) 17-2-7 to 24-11-3, Exterior(2R) 24-11-3 to 31-1-14, Interior (1) 31-1-14 to 41-8-7 zone; porch 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.
- All plates are MT20 plates unless otherwise indicated.
- The Fabrication Tolerance at joint 5 = 0%
- 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 30.0psf 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 178 lb uplift at joint 12, 21 lb uplift at joint 17 and 74 lb uplift at joint 9.
- 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



NOTES

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PASE MIN-7473 rev. 17/2/02/3 BEFORE USE.

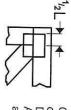
Design valid for use only with MITE® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPH 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)



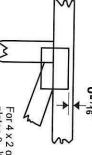
818 Soundside Road Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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

8

6

5

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

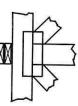
width measured perpendicular the length parallel to slots. to slots. Second dimension is The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



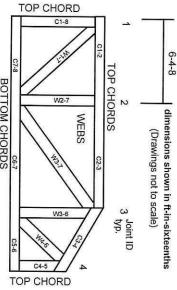
number/letter where bearings occur. Min size shown is for crushing only. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Plate Connected Wood Trusses Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Building Component Safety Information,

Numbering System



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

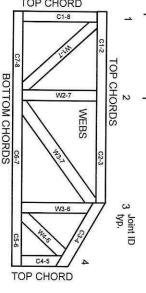
Product Code Approvals

Design General Notes

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

Milek

MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

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

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NEW STATES

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
- Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- 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.

4.

- 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 camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 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.
- 18. 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
- 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.



Trenco

818 Soundside Rd Edenton, NC 27932

Re: J0325-1347

Lot 1 Mabry Ridge

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Pages or sheets covered by this seal: I74483586 thru I74483587

My license renewal date for the state of North Carolina is December 31, 2025.

North Carolina COA: C-0844



June 26,2025

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.

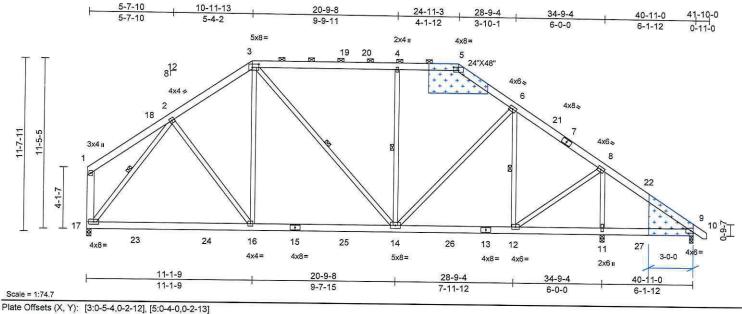
Job	Truss	Truss Type	Qty	Ply	Lot 1 Mabry Ridge	
J0325-1347	A3	Piggyback Base	3	1	L. D. C. L.	174483587
Comtack I F	TO STAN TENEDONE				Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314.

REPAIR: MOVE BEARING AT JOINT 12 TO JOINT 11.

Run: 8.63 E Jul 12 2024 Print: 8.630 E Jul 12 2024 MiTek Industries, Inc. Thu Jun 26 15:31:54 ID:2GNsYO62BI49KgBFP3SlmayOXVO-wR5FJVqRr1?yaNSDBCcZ7_NijZdlscXQ6vmRmmz2N33

Page: 1



Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 NO	CSI TC BC WB	0.64 0.63 0.82	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.20 -0.30 0.02	(loc) 16-17 16-17 11	l/defl >999 >999 n/a			GRIP 244/190
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	14-16	>999	240	Weight: 338 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

WEBS 2x4 SP No.2 *Except* 17-1:2x6 SP No.1

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-5 max.): 3-5.

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

bracing.

WEBS 1 Row at midpt 3-14, 4-14, 6-12, 2-17

REACTIONS (lb/size) 9=-326/0-3-0, 11=2352/0-3-8, 17=1273/0-3-8

Max Horiz 17=-262 (LC 8)

Max Uplift 9=-633 (LC 27), 11=-97 (LC 13),

17=-28 (LC 12)

Max Grav 9=56 (LC 12), 11=2875 (LC 2),

17=1588 (LC 2)

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

(lb) or less except when shown. TOP CHORD 2-3=-1399/266, 3-19=-1039/262,

19-20=-1038/262, 4-20=-1038/263,

4-5=-1038/263, 5-6=-1137/264, 6-21=-634/119, 7-21=-672/107, 7-8=-772/87,

8-22=-242/1349, 9-22=-276/1298 17-23=-151/1055, 23-24=-151/1055,

BOT CHORD 16-24=-151/1055, 15-16=-88/1178,

15-25=-88/1178, 14-25=-88/1178, 14-26=0/524, 13-26=0/524, 12-13=0/524, 11-12=-1022/260, 11-27=-1022/260,

9-27=-1022/260

WEBS 2-16=-68/378, 3-16=-4/509, 4-14=-306/182,

6-14=-162/861, 6-12=-752/202, 2-17=-1430/184, 8-11=-2631/426,

8-12=-157/1833

NOTES

Unbalanced roof live loads have been considered for this design.



ATTACH 1/2" PLYWOOD OR OSB GUSSET (15/32" RATED SHEATHING 32/16 EXP 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.
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.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior (1) 4-7-9 to 10-11-13, Exterior(2R) 10-11-13 to 17-2-7, Interior (1) 17-2-7 to 24-11-3, Exterior(2R) 24-11-3 to 31-1-14, Interior (1) 31-1-14 to 41-8-7 zone; porch 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 30.0psf 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, with BCDL = 10,0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 17, 97 lb uplift at joint 11 and 633 lb uplift at joint 9.
- 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



June 26,2025

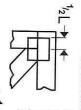
sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE WARNING - Verily design parameters and Read NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIN-473 Rev. 17/2/023 BEFORE USE.

Design valid for use only with MITER® 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 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)

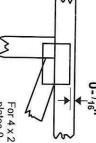


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- ^{1/16} from outside edge of truss.

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

* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 × 4

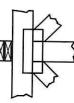
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



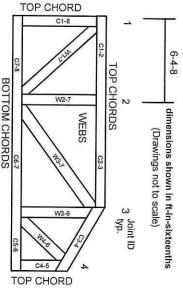
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction. DsB-22: Design Standard for Bracing.

Building Component Safety Information,
Guide to Good Practice for Handling,
Installing, Restraining & Bracing of Metal
Plate Connected Wood Trusses.

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

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

Lumber design values are in accordance with ANSI/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. 1/2/2023

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

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Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4.

Cut members to bear tightly against each other

0

5

- 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.
- 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.
- 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.
- 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.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.