

All Truss Reactions are Less
than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs.
Reaction / # of Studs

All Headers Are Considered 2X10 Beams Unless Otherwise Noted

All Walls Shown Are Considered Load Bearing

Roof Area = 4929.77 sq.ft. Ridge Line = 183.38 ft. Hip Line = 0 ft. Horiz. OH = 213.71 ft. Raked OH = 224.87 ft. Decking = 169 sheets

Dimension Notes

1. All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
2. All interior wall dimensions are to face of stud unless noted otherwise
3. All exterior wall to truss dimensions are to face of stud unless noted otherwise

Hatch Legend

Box Storage

Drop Beam

	Conne	Nail Info	rmation				
Sym	ym Product Manuf Qty Supported Member				Header Truss		
	HUS26 USP 37		NA	16d/3-1/2"	16d/3-1/2"		

		Products		
PlotID	Length	Product	Plies	Net Qty
BM1	20' 0"	1-3/4"x 9-1/4" LVL Kerto-S	2	2
BM2	14' 0"	1-3/4"x 11-7/8" LVL Kerto-S	2	2
GDH	23' 0"	1-3/4"x 18" LVL Kerto-S	2	2

Truss Placement Plan
Scale: 3/16"=1'

▲= Denotes Left End of Truss (Reference Engineered Truss Drawing) ROOF & FLOOR

ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

earing reactions less than or equal to 3000# are eemed to comply with the prescriptive Code equirements. The contractor shall refer to the trached Tables (derived from the prescriptive Co equirements) to determine the minimum foundati et and number of wood studs required to suppor actions greater than 3000# but not greater than 5000#. A registered design professional shall be stained to design the support system for any action that exceeds those specified in the attach ables. A registered design professional shall be stained to design the support system for all leactions that exceed 15000#.

Jonathan Landry
Jonathan Landry

- Contaminant Danier y

LO	AD (CHAP	RT FO	R J	ACK :	STUD	5							
(BASED ON TABLES R502.5(1) & (b))														
NUA	NUMBER OF JACK STUDS REQUIRED @ EA END OF HEADER/GIRDER													
(UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (4) PLY HEADER							
700	1		2550	1		3400	1							
400	2		5100	2		6800	2							
100	3		7650	3		10200								
300	4		10200	4		13600	4							
500	5		12750	5		17000	5							
200	6		15300	6										
900	7													
600	8													
300	9													
		T												

DER	Weaver Development	CITY / CO.	CITY / CO. Sanford / Lee	13600 15300
NAME	VAME Lugiano Residence	ADDRESS	415 Roberts Road	8
	Custom	MODEL	Roof	
DATE N/A	N/A	DATE REV . 07/05/23	07/05/23	
TE #		DRAWN BY	DRAWN BY Jonathan Landry	
#	J0523-2593	SALES REP.	SALES REP. Lenny Norris	

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY.
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



Client: Weaver Development

Project:

Address: 415 Roberts Road

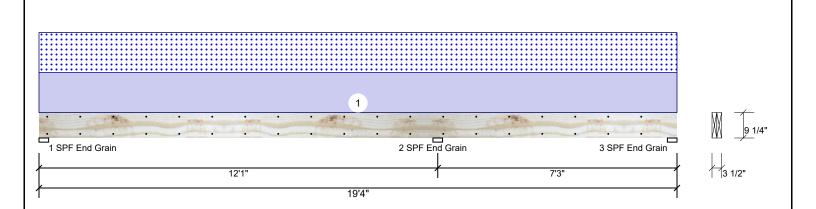
Sanford, NC 27332

Date: 7/5/2023

Input by: Jonathan Landry Job Name: Lugiano Residence Project #: J0523-2593

Kerto-S LVL 2-Ply - PASSED 1.750" X 9.250" BM1

Level: Level



Bearing Length

1-SPF 3.500"

2 - SPF 3.500"

End Grain

End Grain 3 - SPF 3.500"

End Grain Dir.

Vert

Vert

Vert

Cap.

16%

36%

7%

React D/L lb

856 / 836

2120 / 2031

313 / 428

Member Information Reactions UNPATTERNED Ib (Uplift) Type: Application: Floor Brg Direction Live Dead Snow Plies: 2 Design Method: ASD 0 863 Vertical 826 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 0 2103 2015 Deflection LL: 480 Load Sharing: No 3 Vertical 0 324 310 Deflection TL: 360 Not Checked Deck: Importance: Normal - II Ceiling: Gypsum 1/2" Temp <= 100°F Temperature: Bearings

Analysis	Results
Analysis	A otuc

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-4439 ft-lb	12'1"	14423 ft-lb	0.308 (31%)	D+S	LL
Pos Moment	3919 ft-lb	5' 15/16"	14423 ft-lb	0.272 (27%)	D+S	L_
Unbraced	3919 ft-lb	5' 15/16"	4105 ft-lb	0.955 (95%)	D+S	L_
Shear	2049 lb	11'2"	7943 lb	0.258 (26%)	D+S	LL
LL Defl inch	0.105 (L/1358)	5'8 7/16"	0.296 (L/480)	0.354 (35%)	S	L_
TL Defl inch	0.208 (L/683)	5'8 1/16"	0.395 (L/360)	0.527 (53%)	D+S	L_

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at a maximum of 17'5" o.c.
- 8 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	163 PLF	0 PLF	163 PLF	0 PLF	0 PLF	A3
	Self Weight				7 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech Reilly Road Industrial Park P.O. Box 40408, NO 28309 910-864-8787

Wind

0

0

0

Total Ld. Case

1692 L

4151 LL

742 _L

Const

Ld. Comb.

D+S

D+S

D+S

0

0

0

Page 1 of 6







BM₁

Client: Weaver Development Project:

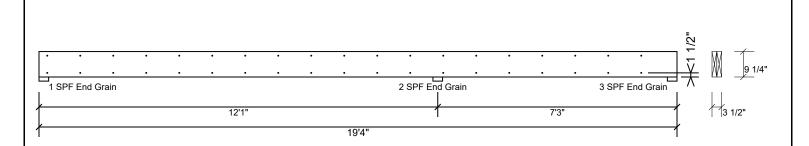
415 Roberts Road Sanford, NC 27332 Date: 7/5/2023

Input by: Jonathan Landry Job Name: Lugiano Residence Project #: J0523-2593

Kerto-S LVL 2-Ply - PASSED 1.750" X 9.250"

Address:

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	163.7 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- For flat roofs provide proper drainage to prevent ponding

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Manufacturer Info

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Page 2 of 6



This design is valid until 11/3/2024



BM₂

Kerto-S LVL

Client: Weaver Development Project:

Address:

415 Roberts Road

Sanford, NC 27332

7/5/2023

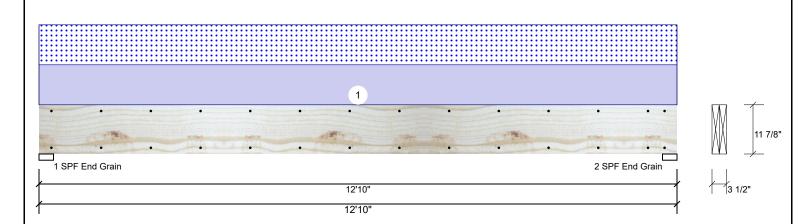
Project #:

Input by: Jonathan Landry Job Name: Lugiano Residence J0523-2593

evel: Level

Page 3 of 6

2-Ply - PASSED 1.750" X 11.875"



Туре:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	360	Deck:	Not Checked
Importance:	Normal - II	Ceiling:	Gypsum 1/2"
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2158	2098	0	0
2	Vertical	0	2158	2098	0	0

Bearings

Grain

	Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
_	1 - SPF End Grain	3.500"	Vert	41%	2158 / 2098	4256	L	D+S
		3.500"	Vert	41%	2158 / 2098	4256	L	D+S

Analysis Results

Member Information

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	12696 ft-lb	6'5"	22897 ft-lb	0.554 (55%)	D+S	L
Unbraced	12696 ft-lb	6'5"	12697 ft-lb	1.000 (100%)	D+S	L
Shear	3415 lb	1'3 3/8"	10197 lb	0.335 (33%)	D+S	L
LL Defl inch	0.194 (L/765)	6'5"	0.309 (L/480)	0.627 (63%)	S	L
TL Defl inch	0.393 (L/377)	6'5"	0.412 (L/360)	0.954 (95%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 6'8 5/8" o.c.

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	327 PLF	0 PLF	327 PLF	0 PLF	0 PLF	A3
	Self Weight				9 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled
Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
2 Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Manufacturer Info

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Comtech Comecn Reilly Road Industrial Park P.O. Box 40408, NO USA 28309 910-864-8787





isDesign

Client: Weaver Development

Project:

Address: 415 Roberts Road Sanford, NC 27332 Date: 7/5/2023 Input by:

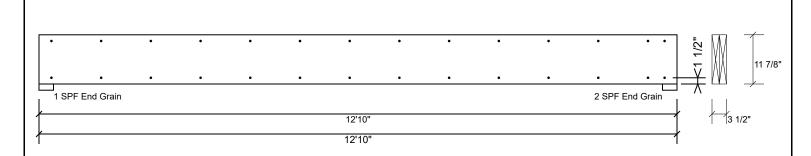
Jonathan Landry Job Name: Lugiano Residence Project #: J0523-2593

Kerto-S LVL BM₂

1.750" X 11.875"

2-Ply - PASSED

evel: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6".

1 3		•	,
Capacity	0.0 %		
Load	0.0 PLF		
Yield Limit per Foot	163.7 PLF		
Yield Limit per Fastener	81.9 lb.		
Yield Mode	IV		
Edge Distance	1 1/2"		
Min. End Distance	3"		
Load Combination			
Duration Factor	1.00		

Notes

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Informing & Installation

I. VIL beams must not be cut or drilled

Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

Damaged Beams must not be used

Design assumes top edge is laterally restrained

Design assumes top edge is laterally restrained is provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Metsä Wood

Comtech Reilly Road Industrial Park P.O. Box 40408, NO USA 28309 910-864-8787

Page 4 of 6







Client: Project: Address:

Weaver Development

415 Roberts Road Sanford, NC 27332

Date: 7/5/2023 Input by: Jonathan Landry Job Name: Lugiano Residence Project #: J0523-2593

Kerto-S LVL 2-Ply - PASSED 1.750" X 18.000" **GDH**

Application:

Design Method:

Building Code:

Load Sharing:

Deck:

Ceiling:

Floor

ASD

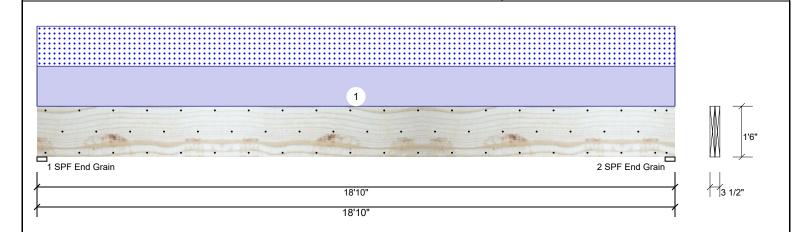
No

IBC/IRC 2015

Not Checked

Gypsum 1/2"

Level: Level



Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance:

Normal - II

Temp <= 100°F Temperature:

Reactions UNPATTERNED Ib (Uplift)

Dir.

Vert

Vert

Bearings Bearing Length

End Grain

End Grain

1-SPF 3.500"

2 - SPF 3.500"

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	0	2750	2618	0	0
2	Vertical	0	2750	2618	0	0

Cap. React D/L lb

2750 / 2618

2750 / 2618

Total Ld. Case

5368 L

5368 L

Ld. Comb.

D+S

D+S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	24111 ft-lb	9'5"	49428 ft-lb	0.488 (49%)	D+S	L
Unbraced	24111 ft-lb	9'5"	24128 ft-lb	0.999 (100%)	D+S	L
Shear	4367 lb	1'9 1/2"	15456 lb	0.283 (28%)	D+S	L
LL Defl inch	0.232 (L/951)	9'5 1/16"	0.460 (L/480)	0.505 (50%)	S	L
TI Deflinch	0.476 (L/464)	9'5 1/16"	0.613 (L/360)	0.776 (78%)	D+S	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 5'5 9/16" o.c.

7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	278 PLF	0 PLF	278 PLF	0 PLF	0 PLF	C1
	Self Weight				14 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech Comecn Reilly Road Industrial Park P.O. Box 40408, NO USA 28309

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910-864-8787







Client: Weaver Development

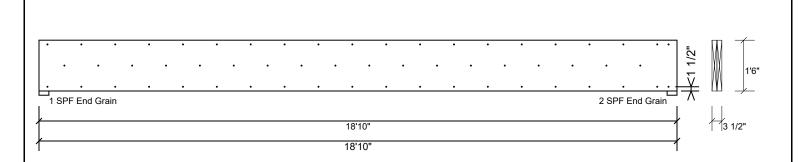
Project:

Address: 415 Roberts Road Sanford, NC 27332 Date: 7/5/2023

Input by: Jonathan Landry Job Name: Lugiano Residence Project #: J0523-2593

Kerto-S LVL 2-Ply - PASSED 1.750" X 18.000" **GDH**

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c., Maximum end distance not to exceed 6".

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes

NOtes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

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For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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www.metsawood.com/us

Manufacturer Info

Comtech Reilly Road Industrial Park P.O. Box 40408, NO USA 28309 910-864-8787

Page 6 of 6







Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0523-2593 Lugiano Residence

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: I59345234 thru I59345257

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



July 5,2023

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 Lugiano Residence 159345234 J0523-2593 Α1 COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:12 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-11-8 27-11-0 8-11-8 5-0-0 5-0-0 8-11-8

> Scale = 1:83.9 4x6 =

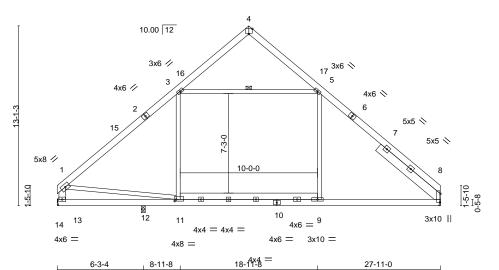
> > Structural wood sheathing directly applied or 6-0-0 oc purlins,

3-5

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt



6-3-4 8-11-8

	Plate Offsets (X,Y)	[4:0-3-0,Edge], [8:0-7-7,0-0-7], [11:0-1-8,0-1-8]
--	---------------------	---

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	efl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.10 9-11 >99	99 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.14 9-11 >99	99 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.02 8 n/	/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 8-9 >99	99 240	Weight: 246 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except*

1-13: 2x6 SP No.1

SLIDER Right 2x8 SP No.1 5-10-14

REACTIONS. (size) 13=Mechanical, 8=Mechanical, 12=0-3-8

Max Horz 13=-300(LC 8)

Max Uplift 13=-161(LC 13), 8=-80(LC 13), 12=-291(LC 11) Max Grav 13=1400(LC 20), 8=1280(LC 20), 12=317(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-1658/307, 3-4=-310/94, 4-5=-290/95, 5-8=-1527/295, 1-13=-1286/287 **BOT CHORD** 12-13=-189/384, 11-12=-189/384, 9-11=-28/1016, 8-9=-23/1016 5-9=0/530, 1-11=-63/945, 3-11=-172/523, 3-5=-992/404

WEBS NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 27-11-0 zone; 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 30.0psf 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, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 13=161, 12=291.





Job Truss Truss Type Qty Lugiano Residence 159345235 J0523-2593 A1GE **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:14 2023 Page 1

Scale = 1:83.4

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 8-11-8 5-0-0 13-11-8

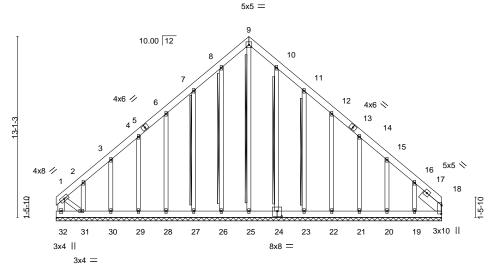
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Brace must cover 90% of web length.

except end verticals.



27-11-0 [18:0-7-7 0-0-7] [24:0-4-0 0-4-8]

Plate Offs	sets (X,Y)	[18:0-7-7,0-0-7], [24:0-4-	0,0-4-8]									
LOADING TCLL	G (psf) 20.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.06	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.05 0.22	Vert(CT) Horz(CT)	n/a 0.01	- 18	n/a n/a	999 n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-S	, ,					Weight: 293 lb	FT = 20%

WEBS

BRACING-LUMBER-

2x6 SP No.1 TOP CHORD TOP CHORD **BOT CHORD** 2x6 SP No.1 2x6 SP No.1 *Except* **BOT CHORD WEBS**

1-31: 2x4 SP No.2 **OTHERS** 2x4 SP No.2

Right 2x8 SP No.1 1-11-4 SLIDER

REACTIONS. All bearings 27-11-0.

Max Horz 32=-373(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 26, 24, 20 except 32=-281(LC 10),

18=-143(LC 11), 27=-127(LC 12), 28=-111(LC 12), 29=-111(LC 12), 30=-110(LC 12), 31=-360(LC 12), 23=-131(LC 13), 22=-111(LC 13), 21=-112(LC 13),

19=-302(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 26, 27, 28, 29, 30, 24, 23, 22,

21, 20 except 32=484(LC 12), 18=367(LC 13), 25=264(LC 13), 31=293(LC 10),

19=253(LC 20)

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

TOP CHORD 1-2=-393/264, 2-3=-297/227, 7-8=-225/257, 8-9=-268/294, 9-10=-268/294,

16-18=-459/279, 1-32=-459/280

BOT CHORD 31-32=-336/356, 30-31=-215/338, 29-30=-215/338, 28-29=-215/338, 27-28=-215/338,

26-27=-215/338. 25-26=-215/338. 24-25=-215/338. 23-24=-216/338. 22-23=-216/338.

21-22=-216/338, 20-21=-216/338, 19-20=-216/338, 18-19=-216/338

WEBS 9-25=-251/174, 16-19=-271/297, 1-31=-230/377

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 24, 20 except (jt=lb) 32=281, 18=143, 27=127, 28=111, 29=111, 30=110, 31=360, 23=131, 22=111, 21=112, 19=302

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 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



2x4 SPF No.2 - 9-25, 8-26, 7-27, 10-24,

July 5,2023



Job	Truss	Truss Type	Qty	Ply	Lugiano Residence
		0.0.5			159345235
J0523-2593	A1GE	GABLE	1	1	
	1	I .	1	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:14 2023 Page 2

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

Job Truss Truss Type Qty Lugiano Residence 159345236 J0523-2593 A2 COMMON 8 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:15 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 18-11-8 27-11-0 8-11-8 5-0-0 5-0-0 8-11-8

> Scale = 1:83.9 4x6 =

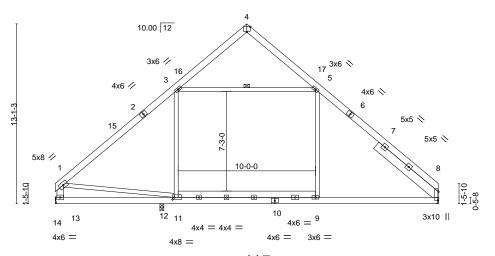
> > Structural wood sheathing directly applied or 5-11-3 oc purlins,

3-5

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

1 Row at midpt



18-14x4 = 7-7-8 **Կ-4-**0 8-11-8

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

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.26	Vert(LL) -0.10 9-11 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.14 9-11 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.49	Horz(CT) 0.02 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 8-9 >999 240	Weight: 246 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except*

1-13: 2x6 SP No.1 Right 2x8 SP No.1 5-10-14

SLIDER

(size) 13=Mechanical, 8=Mechanical, 12=0-3-8

Max Horz 13=-300(LC 8)

Max Uplift 13=-165(LC 13), 8=-94(LC 13), 12=-338(LC 11) Max Grav 13=1399(LC 20), 8=1297(LC 20), 12=356(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-3=-1689/307, 3-4=-310/94, 4-5=-289/94, 5-8=-1558/295, 1-13=-1317/289 **BOT CHORD** 12-13=-229/408, 11-12=-229/408, 9-11=-28/1006, 8-9=-24/1005 **WEBS** 5-9=0/525, 1-11=-154/1011, 3-11=-215/544, 3-5=-1013/404

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 27-11-0 zone; 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 30.0psf 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, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 13=165, 12=338.



July 5,2023



Job Truss Truss Type Qty Lugiano Residence 159345237 J0523-2593 **A3 ROOF SPECIAL** 9 Job Reference (optional)

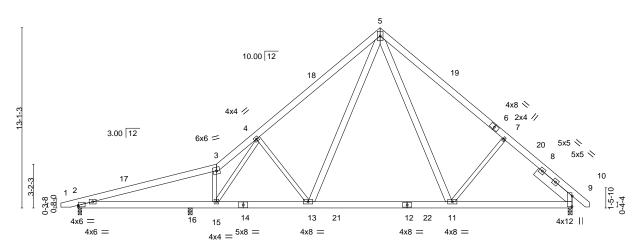
Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:16 2023 Page 1

Structural wood sheathing directly applied or 5-7-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

 $ID: zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 35-11-0 21-11-8 30-11-8 37-2-0 1-3-0 10-0-10 2-10-14 9-0-0 9-0-0 4-11-8

> Scale = 1:83.8 5x8 ||



	1 0-	1-12	10-0-14	10-11-0	1	20-11-0	1	35-11	-0		
	8	1-12	1-10-14 ^l	6-10-14	1	10-0-0	-	8-11-	8		
Plate Offsets (X,Y)	[2:0-0-1,0-1-5], [9:0-9-3	,0-0-3]									
LOADING (psf)	SPACING-	2-0-0	CSI.	0.46	DEFL.	in (loc)	l/defl	L/d	PLATE	S GRIP	

BRACING-

TOP CHORD

BOT CHORD

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.19 11-13	>999	360	MT20	244/190
TCDL '	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.27 11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.03 9	n/a	n/a		
BCDL '	10.0	Code IRC2015/TF	PI2014	Matri	k-S	Wind(LL)	0.09 13-15	>999	240	Weight: 296 lb	FT = 20%

LUMBER-

SLIDER

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except*

5-13,5-11: 2x6 SP No.1 Right 2x8 SP No.1 3-5-0

REACTIONS. (size) 2=0-3-0, 9=0-3-8, 16=0-3-8

Max Horz 2=303(LC 9)

Max Uplift 2=-128(LC 8), 9=-68(LC 13), 16=-51(LC 12) Max Grav 2=652(LC 1), 9=1305(LC 20), 16=1084(LC 1)

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

TOP CHORD $2-3=-1417/140,\ 3-4=-1753/267,\ 4-5=-1577/416,\ 5-7=-1421/408,\ 7-9=-1579/335$ **BOT CHORD** 2-16=-168/1370, 15-16=-168/1370, 13-15=-168/1458, 11-13=0/864, 9-11=-134/1058 **WEBS** 3-15=-1035/256, 4-13=-535/280, 5-13=-143/908, 5-11=-118/600, 7-11=-397/314

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-11 to 3-6-2, Interior(1) 3-6-2 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 37-0-4 zone; porch left 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.
- 4) * This truss has been designed for a live load of 30.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 16 except (jt=lb) 2=128.





Job Truss Truss Type Qty Lugiano Residence 159345238 J0523-2593 A4 COMMON 13

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional)

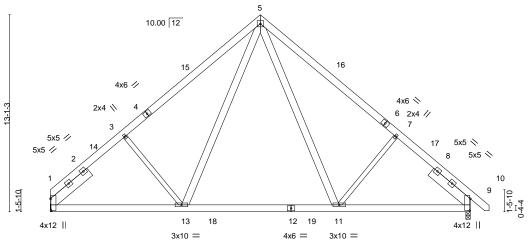
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:17 2023 Page 1 ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

27-11-0 22-11-8 29-2-0 1-3-0 4-11-8 9-0-0 9-0-0 4-11-8

> Scale = 1:76.6 5x5 =

> > Structural wood sheathing directly applied or 5-10-12 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.



18-11-8 27-11-0 8-11-8 8-11-8 Plate Offsets (X V) [1.0-0-2 0-0-7] [0.0-0-7 0-0-7]

Flate Olis	ets (A, I)	[1.0-9-7,0-0-7], [9.0-9-7,0-0-7]									
LOADING	(psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	15	TC	0.39	Vert(LL)	-0.20 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	15	BC	0.48	Vert(CT)	-0.26 11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr YI	ES	WB	0.27	Horz(CT)	0.02 9	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4	Matri	x-S	Wind(LL)	0.03 11-13	>999	240	Weight: 255 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 *Except*

7-11,3-13: 2x4 SP No.2

SLIDER Left 2x8 SP No.1 3-5-0, Right 2x8 SP No.1 3-5-0

REACTIONS. (size) 1=Mechanical, 9=0-3-8

Max Horz 1=302(LC 9)

Max Uplift 1=-44(LC 12), 9=-60(LC 13) Max Grav 1=1164(LC 19), 9=1228(LC 20)

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

TOP CHORD 1-3=-1482/348, 3-5=-1324/421, 5-7=-1321/411, 7-9=-1480/338

BOT CHORD 1-13=-159/1213, 11-13=0/790, 9-11=-140/1000

WEBS 5-11=-125/636, 7-11=-402/312, 5-13=-130/641, 3-13=-400/315

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-11-8, Exterior(2) 13-11-8 to 18-4-5, Interior(1) 18-4-5 to 29-0-4 zone; 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.
- 4) * This truss has been designed for a live load of 30.0psf 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, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.





Job Truss Truss Type Qty Lugiano Residence 159345239 J0523-2593 A4GE **GABLE** Job Reference (optional)

5x5 =

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:19 2023 Page 1

Scale = 1:77.6

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 29-2-0 1-3-0 13-11-8 13-11-8

10 10.00 12 11 12 4x6 // 13 4x6 💉 14 5 15 16 5x5 / 5x5 📏 17 18 1-5-10 19

27-11-0

28

Plate Off	sets (X,Y)	[1:0-7-7,0-0-7], [15:0-2-7,	Edge], [19:0-7	-7,0-0-7], [26	5:0-4-0,0-4-8 _.							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	19	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	19	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	19	n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S						Weight: 298 lb	FT = 20%

27

26

8x8 =

25

24

23

22

21

LUMBER-

2x6 SP No.1 TOP CHORD **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2

Left 2x8 SP No.1 1-11-4, Right 2x8 SP No.1 1-11-4 SLIDER

3x10 ||

33

32

31

30

29

BRACING-

TOP CHORD **BOT CHORD** WEBS

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

3x10 |

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 10-27, 9-28, 8-29, 11-26,

12-25

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 27-11-0.

Max Horz 1=377(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 28, 32, 26, 22 except 1=-232(LC 10), 29=-127(LC 12), 30=-111(LC 12), 31=-112(LC 12), 33=-326(LC 12),

25=-131(LC 13), 24=-111(LC 13), 23=-112(LC 13), 21=-288(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 28, 29, 30, 31, 32, 26, 25, 24

23, 22, 21 except 1=424(LC 12), 19=320(LC 13), 27=270(LC 13), 33=281(LC 19)

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

TOP CHORD 1-3=-528/334, 3-4=-287/224, 8-9=-232/263, 9-10=-274/298, 10-11=-274/297,

17-19=-443/271

BOT CHORD 1-33=-211/332, 32-33=-211/332, 31-32=-211/332, 30-31=-211/332, 29-30=-211/332,

28-29=-211/332, 27-28=-211/332, 26-27=-211/332, 25-26=-212/332, 24-25=-212/332,

23-24=-212/332, 22-23=-212/332, 21-22=-211/332, 19-21=-211/332

WEBS 10-27=-255/181, 3-33=-269/319, 17-21=-270/284

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 28, 32, 26, 22 except (jt=lb) 1=232, 29=127, 30=111, 31=112, 33=326, 25=131, 24=111, 23=112, 21=288.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 5,2023

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 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

AMSI/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 Qty Lugiano Residence 159345240 J0523-2593 **B1** COMMON Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

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ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 27-8-0 1-3-0 6-2-8 6-2-8 20-2-8 26-5-0 7-0-0 7-0-0 6-2-8

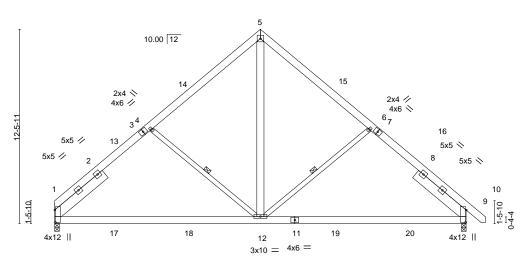
> Scale = 1:74.0 5x5 =

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

6-12, 4-12

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt



26-5-0

BRACING-

WEBS

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[1:0-9-7,0-0-7], [9:0-9-7,0-0-7]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.24	1-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.38	1-12	>826	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.01	12	>999	240	Weight: 226 lb	FT = 20%

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except*

5-12: 2x6 SP No.1

SLIDER Left 2x8 SP No.1 4-2-12, Right 2x8 SP No.1 4-2-12

REACTIONS. (size) 9=0-3-8, 1=0-3-8

Max Horz 1=287(LC 9)

Max Uplift 9=-57(LC 13), 1=-41(LC 12) Max Grav 9=1241(LC 20), 1=1177(LC 19)

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

TOP CHORD 1-4=-1303/328, 4-5=-1076/331, 5-6=-1076/326, 6-9=-1303/320

BOT CHORD 1-12=-113/1060, 9-12=-91/904

WEBS 5-12=-185/821, 6-12=-399/284, 4-12=-398/286

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-2-8, Exterior(2) 13-2-8 to 17-7-5, Interior(1) 17-7-5 to 27-6-4 zone; 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.
- 4) * This truss has been designed for a live load of 30.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 1.

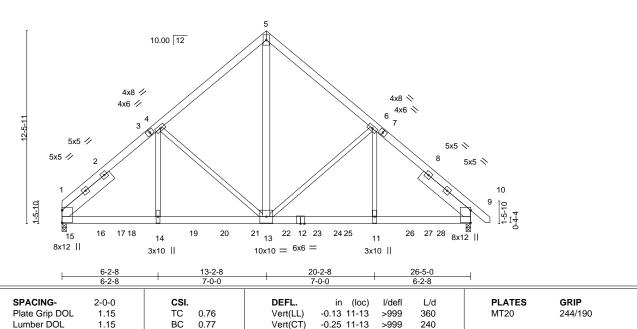


Job Truss Truss Type Qty Ply Lugiano Residence 159345241 J0523-2593 B1-GR COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:22 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-2-8 26-5-0 6-2-8 7-0-0 7-0-0 6-2-8

> Scale = 1:74.5 5x8 ||



Horz(CT)

Wind(LL)

BRACING-TOP CHORD

BOT CHORD

0.06

0.08 11-13

9

n/a

>999

n/a

240

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 5-4-14 oc purlins.

Weight: 486 lb

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

10.0

0.0

10.0

TOP CHORD 2x6 SP 2400F 2.0E 2x6 SP 2400F 2.0E **BOT CHORD**

2x4 SP No.2 *Except* **WEBS** 5-13: 2x6 SP No.1

SLIDER Left 2x8 SP No.1 4-2-8, Right 2x8 SP No.1 4-2-8

REACTIONS. (size) 9=0-3-8, 1=0-3-8 (req. 0-3-9)

Max Horz 1=287(LC 5)

Max Uplift 9=-398(LC 9), 1=-426(LC 8) Max Grav 9=7818(LC 2), 1=8675(LC 2)

Rep Stress Incr

Code IRC2015/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $1-4=-9361/501,\ 4-5=-6302/460,\ 5-6=-6302/460,\ 6-9=-9348/500$ 1-14=-380/6661, 13-14=-380/6662, 11-13=-278/6646, 9-11=-278/6645 BOT CHORD

WEBS 5-13=-432/7375, 6-13=-2419/304, 4-13=-2440/306, 4-14=-109/3863, 6-11=-110/3847

NO

WB

Matrix-S

0.76

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

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

- 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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf 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, with BCDL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 1 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1110 lb down and 58 lb up at 0-4-12, 1104 lb down and 64 lb up at 2-4-12, 1095 lb down and 64 lb up at 4-4-12, 1095 lb down and 64 lb up at 6-4-12, 1095 lb down and 64 lb up at 8-4-12, 1104 lb down and 64 lb up at 10-4-12, 1104 lb down and 64 lb up at 12-4-12, 1104 lb down and 64 lb up at 14-4-12, 1104 lb down and 64 lb up at 16-4-12, 1095 lb down and 64 lb up at 18-4-12, 1095 lb down and 64 lb up at 20-4-12, and 1095 lb down and 64 lb up at 22-4-12, and 1104 lb down and 64 lb up at 24-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

036322

July 5,2023

Continued 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/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 Qty Ply Lugiano Residence 159345241 J0523-2593 COMMON B1-GR

Comtech, Inc, Fayetteville, NC - 28314,

Z Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:22 2023 Page 2 ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-5=-60, 5-10=-60, 1-9=-20

Concentrated Loads (lb)

Vert: 14=-1095(B) 11=-1095(B) 15=-1101(B) 16=-1095(B) 18=-1095(B) 19=-1095(B) 20=-1095(B) 21=-1095(B) 22=-1095(B) 23=-1095(B) 25=-1095(B) 26=-1095(B) 26=-1095(B)

28=-1095(B)



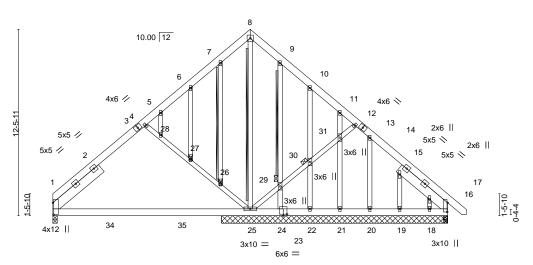
818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Lugiano Residence 159345242 J0523-2593 B1SG **GABLE** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:24 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 20-2-8 26-5-0 7-0-0 7-0-0 6-2-8

> Scale = 1:77.1 5x5 =



11-3-8 26-5-0

Plate Offsets (X,Y)	[1:0-9-7,0-0-7], [16:0-7-7,0-0-7], [23:0-3-0,0-1-4]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.27	1-25	>590	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.42	1-25	>379	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01	16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	1-25	>999	240	Weight: 287 lb	FT = 20%

JOINTS

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD BOT CHORD **BOT CHORD** 2x6 SP No.1 WEBS 2x4 SP No.2 **WEBS OTHERS** 2x4 SP No.2

SLIDER Left 2x8 SP No.1 4-2-12, Right 2x8 SP No.1 4-2-12 Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SPF No.2 - 8-25, 7-26, 9-29

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.

Brace must cover 90% of web length.

1 Brace at Jt(s): 26, 27, 29, 30

REACTIONS. All bearings 15-1-8 except (jt=length) 16=0-3-8, 16=0-3-8, 16=0-3-8, 1=0-3-8.

Max Horz 1=358(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 16, 25, 1, 22 except 24=-585(LC 18),

20=-154(LC 13), 18=-149(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 21, 19, 18 except 16=271(LC 19) 16=267(LC 1), 16=267(LC 1), 25=1191(LC 19), 1=599(LC 20), 22=341(LC 20),

20=267(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-4=-526/217, 4-5=-291/179, 8-9=-259/250, 9-10=-251/216, 14-16=-288/57

BOT CHORD

WEBS 4-28=-481/392, 27-28=-452/369, 26-27=-482/393, 25-26=-495/404

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 25, 1, 22 except (it=lb) 24=585, 20=154, 18=149.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/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 Qty Lugiano Residence 159345243 J0523-2593 C₁ COMMON 11 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:25 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 24-11-0 20-5-8 26-2-0 1-3-0 8-0-0 8-0-0 4-5-8

> Scale = 1:69.4 5x5 =

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

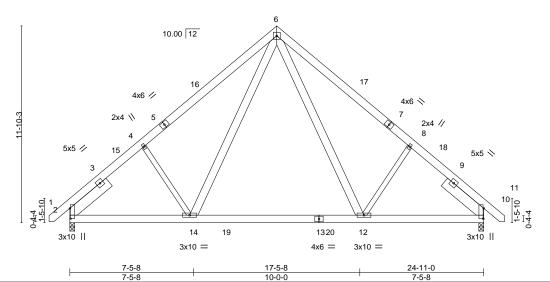


Plate Offsets (X,Y)--[2:0-7-7,0-0-7], [10:0-7-7,0-0-7] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.18 12-14 >999 360 244/190 MT20 -0.25 12-14 TCDL 10.0 Lumber DOL 1.15 ВС 0.46 Vert(CT) >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) 0.02 10 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.02 12-14 >999 240 Weight: 233 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 *Except*

8-12,4-14: 2x4 SP No.2

SLIDER Left 2x8 SP No.1 3-1-2, Right 2x8 SP No.1 3-1-2

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

Max Horz 2=271(LC 9)

Max Uplift 2=-54(LC 12), 10=-54(LC 13) Max Grav 2=1109(LC 19), 10=1109(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1320/294, 4-6=-1212/385, 6-8=-1212/385, 8-10=-1319/294 **BOT CHORD** 2-14=-132/1072, 12-14=0/699, 10-12=-112/889 **WEBS** 6-12=-128/601, 8-12=-343/283, 6-14=-128/601, 4-14=-343/283

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-4 to 3-3-9, Interior(1) 3-3-9 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 26-0-4 zone; 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 30.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.



July 5,2023

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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



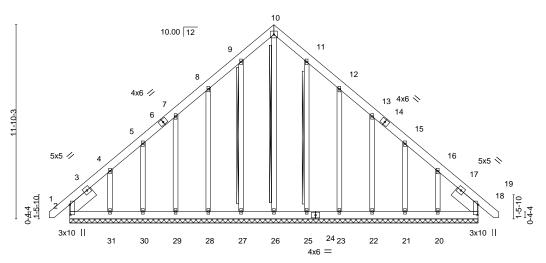
Job Truss Truss Type Qty Lugiano Residence 159345244 J0523-2593 C1GE **GABLE** 2

5x5 =

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:27 2023 Page 1

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 26-2-0 12-5-8 12-5-8

Scale = 1:70.3



24-11-0

Plate Offsets (X,Y)	[2:0-7-7,0-0-7], [18:0-7-7,0-0-7]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) -0.00 18 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 18 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) 0.01 18 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 258 lb FT = 20%

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD TOP CHORD **BOT CHORD BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2 WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 10-26, 9-27, 11-25 Fasten (2X) T and I braces to narrow edge of web with 10d

(0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 24-11-0.

Max Horz 2=339(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 18, 27, 30, 25, 21 except 2=-138(LC 8), 28=-126(LC 12), 29=-115(LC 12), 31=-292(LC 12), 23=-129(LC 13),

22=-115(LC 13), 20=-270(LC 13) Max Grav All reactions 250 lb or less at joint(s) 27, 28, 29, 30, 25, 23, 22, 21

except 2=313(LC 20), 18=271(LC 22), 26=260(LC 13), 31=277(LC 19), 20=253(LC

20)

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

Left 2x8 SP No.1 1-10-13, Right 2x8 SP No.1 1-10-13

TOP CHORD 2-4=-394/273, 9-10=-270/287, 10-11=-270/287, 16-18=-332/186

BOT CHORD 2-31=-170/285, 30-31=-170/285, 29-30=-170/285, 28-29=-170/285, 27-28=-170/285,

26-27=-170/285, 25-26=-170/285, 23-25=-170/285, 22-23=-170/285, 21-22=-170/285, 20-21=-170/285, 18-20=-170/284

4-31=-268/285, 16-20=-268/268

WEBS NOTES-

SLIDER

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 27, 30, 25, 21 except (jt=lb) 2=138, 28=126, 29=115, 31=292, 23=129, 22=115, 20=270.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job Truss Truss Type Qty Ply Lugiano Residence 159345245 J0523-2593 C2 COMMON Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

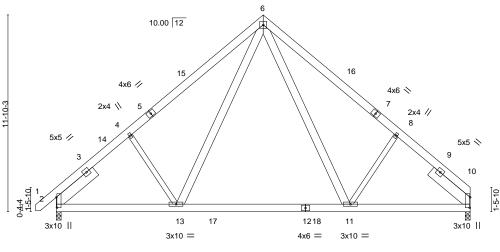
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:28 2023 Page 1 ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

20-5-8 24-11-0 4-5-8 8-0-0 8-0-0 4-5-8

> Scale = 1:69.4 5x5 =

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

Rigid ceiling directly applied or 10-0-0 oc bracing.



24-11-0 7-5-8 10-0-0 Plate Offsets (X,Y)-- [2:0-7-7,0-0-7], [10:0-7-7,0-0-7]

T late on	0010 (71, 17	[2.0 1 1,0 0 1], [10.0 1 1,0 0 1]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.18 11-13 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.25 11-13 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.20	Horz(CT) 0.02 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 11-13 >999 240	Weight: 229 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 WEBS 2x6 SP No.1 *Except*

8-11,4-13: 2x4 SP No.2 **SLIDER** Left 2x8 SP No.1 3-1-2, Right 2x8 SP No.1 3-1-2

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

Max Horz 2=-272(LC 8)

Max Uplift 2=-54(LC 12), 10=-39(LC 13) Max Grav 2=1110(LC 19), 10=1046(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1321/294, 4-6=-1213/386, 6-8=-1218/398, 8-10=-1339/305 **BOT CHORD** 2-13=-132/1073, 11-13=0/701, 10-11=-113/894 **WEBS** 6-11=-132/607, 8-11=-341/285, 6-13=-127/600, 4-13=-343/283

NOTES-

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

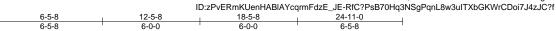
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -1-1-4 to 3-3-9, Interior(1) 3-3-9 to 12-5-8, Exterior(2) 12-5-8 to 16-10-5, Interior(1) 16-10-5 to 24-11-0 zone; C-C for members and forces & MWFRS for reactions 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 30.0psf 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.





Job Truss Truss Type Qty Ply Lugiano Residence 159345246 J0523-2593 C2-GR Common Girder 2 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:30 2023 Page 1



Scale = 1:70.8 5x8 ||

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

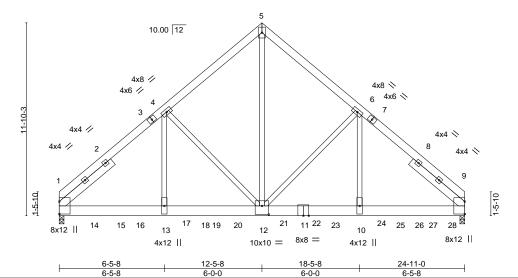


Plate Offsets (X,Y)	[12:0-5-0,0-6-4]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.10 12-13 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.18 12-13 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.89	Horz(CT) 0.04 9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 12-13 >999 240	Weight: 463 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x6 SP 2400F 2.0E TOP CHORD 2x8 SP 2400F 2.0E **BOT CHORD** WEBS 2x4 SP No.2

SLIDER Left 2x6 SP No.1 4-3-6, Right 2x6 SP No.1 4-3-6

REACTIONS. (size) 1=0-3-8, 9=0-3-8 (req. 0-3-10)

Max Horz 1=-270(LC 25)

Max Uplift 1=-1038(LC 8), 9=-1149(LC 9) Max Grav 1=7979(LC 33), 9=8701(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-4=-9360/1260, 4-5=-6468/986, 5-6=-6469/986, 6-9=-9408/1273 1-13=-915/6864, 12-13=-916/6865, 10-12=-839/6778, 9-10=-839/6778 BOT CHORD

WEBS 4-13=-466/3928, 4-12=-2596/497, 5-12=-1107/7570, 6-12=-2661/514, 6-10=-486/3999

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf 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, with BCDL = 10.0psf.
- 7) WARNING: Required bearing size at joint(s) 9 greater than input bearing size.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1038, 9=1149,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1216 lb down and 181 lb up at 2-0-12, 1186 lb down and 181 lb up at 4-0-12, 1178 lb down and 181 lb up at 6-0-12, 1179 lb down and 181 lb up at 8-0-12, 1219 lb down and 185 lb up at 10-0-12, 1219 lb down and 185 lb up at 12-0-12, 1219 lb down and 185 lb up at 14-0-12, 1200 lb down and 185 lb up at 16-0-12, 1181 lb down and 185 lb up at 18-0-12, 1174 lb down and 185 lb up at 20-0-12, and 1216 lb down and 185 lb up at 22-0-12, and 1221 lb down and 184 lb up at 24-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Continued 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

AMSI/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 Qty Ply Lugiano Residence 159345246 2 J0523-2593 C2-GR Common Girder **Z** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:30 2023 Page 2

Fayetteville, NC - 28314, Comtech, Inc,

ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-5=-60, 5-9=-60, 1-9=-20

Concentrated Loads (lb)

Vert: 14=-1081(B) 16=-1081(B) 17=-1081(B) 18=-1081(B) 20=-1081(B) 21=-1081(B) 22=-1081(B) 23=-1081(B) 24=-1081(B) 25=-1081(B) 25=-1081(B)



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Lugiano Residence 159345247 J0523-2593 D1GE COMMON SUPPORTED GAB Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:31 2023 Page 1 ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

> 5x5 = Scale = 1:39.1

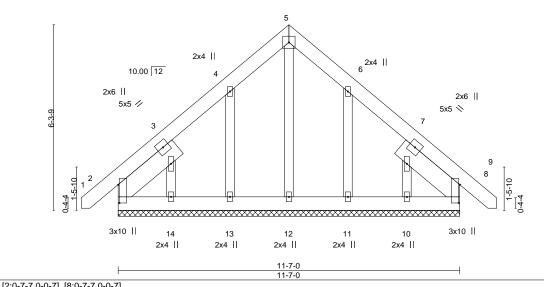


Plate Offsets (X,Y)	[2:0-7-7,0-0-7], [8:0-7-7,0-0-7]								
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. Vert(LL)	in 0.00	(loc)	l/defl n/r	L/d 120	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.04 WB 0.13	Vert(CT) Horz(CT)	0.00	8	n/r n/a	120 120 n/a	WITZU	244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	11012(01)	0.00		11/4	11/4	Weight: 110 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SP No.2

SLIDER Left 2x8 SP No.1 2-7-10, Right 2x8 SP No.1 2-7-10

REACTIONS. All bearings 11-7-0. Max Horz 2=-173(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 14, 10 except 2=-101(LC 13), 13=-188(LC 12), 11=-181(LC 13) Max Grav All reactions 250 lb or less at joint(s) 12, 14, 11, 10 except 2=261(LC 1), 8=261(LC 1), 13=255(LC

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

TOP CHORD 4-5=-261/241, 5-6=-262/241 **WEBS** 4-13=-251/226, 6-11=-251/218

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; 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.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 14, 10 except (jt=lb) 2=101, 13=188, 11=181.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8.



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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 Lugiano Residence 159345248 J0523-2593 VB1 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:32 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 22-9-10 11-4-13 11-4-13 Scale = 1:57.3 4x4 = 10.00 12 5 16 X 9-0-0 3x4 / 3x4 N 13 12 10 8 18 9 3x4 22-9-10 0-0-7 Plate Offsets (X,Y)--[5:0-0-0,0-0-0], [6:0-0-0,0-0-0] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.15 Vert(LL) 999 244/190 n/a n/a MT20

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2

10.0

10.0

0.0

BRACING-

Vert(CT)

Horz(CT)

n/a

0.00

TOP CHORD **BOT CHORD WEBS**

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

Weight: 113 lb

Rigid ceiling directly applied or 10-0-0 oc bracing.

999

n/a

1 Row at midpt 4-11

n/a

n/a

REACTIONS. All bearings 22-8-12.

(lb) -Max Horz 1=-220(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-138(LC 12), 13=-118(LC 12), 9=-138(LC 13),

8=-118(LC 13)

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=430(LC 22), 12=554(LC 19), 13=364(LC 19),

ВС

WB

Matrix-S

0.16

0.20

9=554(LC 20), 8=364(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WFBS 3-12=-351/250, 2-13=-308/226, 5-9=-351/250, 6-8=-308/226

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 11-4-13, Exterior(2) 11-4-13 to 15-9-10, Interior(1) 15-9-10 to 22-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- * This truss has been designed for a live load of 30.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=138, 13=118, 9=138, 8=118.



FT = 20%



Job Truss Truss Type Qty Lugiano Residence 159345249 J0523-2593 VB2 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:33 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 9-4-13 9-4-13 4x4 = Scale = 1:47.4

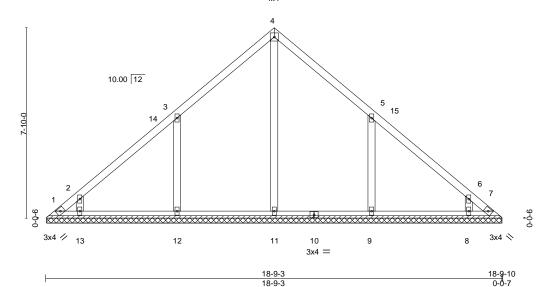


Plate Offsets (X,Y)--[5:0-0-0,0-0-0], [6:0-0-0,0-0-0] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.16 Vert(LL) 999 244/190 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.15 0.00 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 87 lb Matrix-S

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-8-12.

(lb) -Max Horz 1=-180(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-119(LC 10), 12=-141(LC 12), 13=-103(LC 12),

9=-141(LC 13), 8=-103(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=434(LC 22), 12=474(LC 19), 13=276(LC 19),

9=474(LC 20), 8=276(LC 20)

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

WFBS 3-12=-357/256, 2-13=-284/230, 5-9=-357/254, 6-8=-284/230

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 9-4-13, Exterior(2) 9-4-13 to 13-9-10, Interior(1) 13-9-10 to 18-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=119, 12=141, 13=103, 9=141, 8=103.





Job Truss Truss Type Qty Lugiano Residence 159345250 J0523-2593 VB3 VALLEY Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:34 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-9-10 7-4-13 7-4-13 Scale = 1:37.6 4x4 = 3 10.00 12 11 2x4 || 2x4 | 4 12 9-0-0 3x4 🖊 3x4 💸 8 6 2x4 || 2x4 || 2x4 || 14-9-10 0-0-7 14-9-3 Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.14 BC 0.15 WB 0.09	DEFL. in (loc) l/de Vert(LL) n/a - n/ Vert(CT) n/a - n/ Horz(CT) 0.00 5 n/	/a 999 /a 999	PLATES GRIP MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			Weight: 64 lb FT = 20%

LUMBER-

2x4 SP No.1 TOP CHORD BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-8-12.

(lb) -Max Horz 1=-140(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-135(LC 12), 6=-135(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=400(LC 19), 8=392(LC 19), 6=392(LC 20)

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

2-8=-338/246, 4-6=-338/246 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 7-4-13, Exterior(2) 7-4-13 to 11-9-10, Interior(1) 11-9-10 to 14-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=135, 6=135





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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 Lugiano Residence 159345251 J0523-2593 VB4 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:35 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 10-9-10 5-4-13 5-4-13 Scale = 1:27.7 4x4 = 3 11 10.00 12 2x4 || 4 2x4 || 6 3x4 // 3x4 × 2x4 || 2x4 || 10-9-10 0-0-7 10-9-3 Plate Offsets (X,Y)--[4:0-0-0,0-0-0]

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix-S							Weight: 43 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-8-12.

(lb) -Max Horz 1=-100(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-134(LC 12), 6=-134(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=347(LC 19), 6=347(LC 20)

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

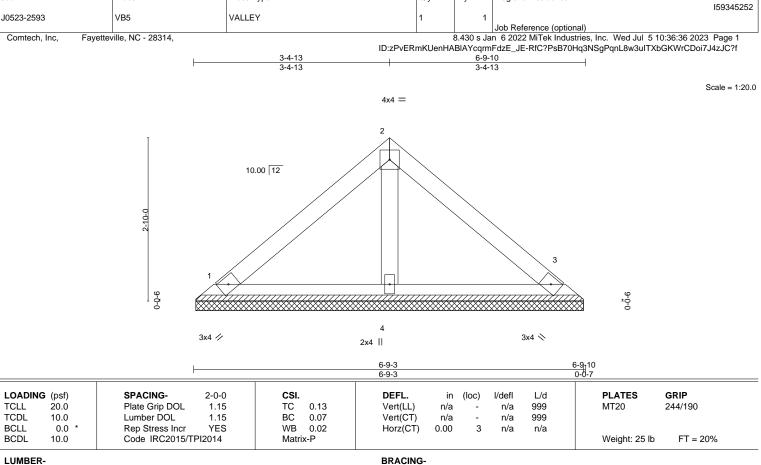
2-8=-346/279, 4-6=-346/279 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 5-4-13, Exterior(2) 5-4-13 to 9-9-10, Interior(1) 9-9-10 to 10-4-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=134, 6=134,







TOP CHORD

BOT CHORD

Qty

Lugiano Residence

LUMBER-

REACTIONS.

Job

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

> 1=6-8-12, 3=6-8-12, 4=6-8-12 (size) Max Horz 1=-60(LC 8)

Truss

Truss Type

Max Uplift 1=-21(LC 13), 3=-26(LC 13)

Max Grav 1=139(LC 1), 3=139(LC 1), 4=202(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

Rigid ceiling directly applied or 10-0-0 oc bracing.

Job Truss Truss Type Qty Lugiano Residence 159345253 J0523-2593 VC1 Valley 2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:37 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-3-10 10-7-13 10-7-13 Scale = 1:53.6 4x4 = 10.00 12 9-0-0 3x4 // 3x4 N 13 12 10 9 8 11 3x4 = 21-3-10

				21-0-0					0-0-1			
LOADING TCLL	20.0	Plate Grip DOL 1	-0-0 1.15	CSI.	0.16	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190
TCDL BCLL BCDL	10.0 0.0 * 10.0		1.15 /ES 14	BC WB Matri	0.19 0.16 x-S	Vert(CT) Horz(CT)	n/a 0.00	7	n/a n/a	999 n/a	Weight: 103 lb	FT = 20%
DODL	10.0	0000 11(02010/11 120		Iviatii							Treight: 100 lb	1 1 = 2070

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 **OTHERS**

(lb) -

2x4 SP No.2 REACTIONS. All bearings 21-2-12

Max Horz 1=-205(LC 8) Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 12=-140(LC 12), 13=-106(LC 12), 9=-140(LC 13),

8=-106(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=445(LC 22), 12=473(LC 19), 13=291(LC 19),

9=472(LC 20), 8=291(LC 20)

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

WEBS 3-12=-356/253, 2-13=-281/213, 5-9=-356/253, 6-8=-281/213

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 10-7-13, Exterior(2) 10-7-13 to 15-0-10, Interior(1) 15-0-10 to 20-10-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 12=140, 13=106, 9=140, 8=106.



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

4-11

Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt





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 chorembers 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, rerection 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 Lugiano Residence 159345254 J0523-2593 VC2 Valley 2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:38 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 8-7-13 8-7-13 Scale = 1:44.0 4x4 = 10.00 12 2x4 || 2x4 || 4 11 10 9-0-0 9-0-0 3x4 // 9 12 136 8 2x4 || 2x4 || 3x4 = 2x4 || 17-3-10 17-3-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.19 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.12 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 77 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 17-2-12.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-158(LC 12), 6=-158(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=417(LC 22), 9=505(LC 19), 6=505(LC 20)

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

2-9=-394/272, 4-6=-394/272 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-7-13, Interior(1) 4-7-13 to 8-7-13, Exterior(2) 8-7-13 to 13-0-10, Interior(1) 13-0-10 to 16-10-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=158, 6=158,



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

Rigid ceiling directly applied or 10-0-0 oc bracing.



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AMSI/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 Qty Lugiano Residence 159345255 J0523-2593 VC3 Valley 2 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Jul 5 10:36:39 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:zPvERmKUenHABIAYcqrmFdzE_JE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-7-13 6-7-13 Scale = 1:34.2 4x4 = 3 10.00 12 10 2x4 || 2x4 || 9 3x4 / 3x4 🚿 8 7 6 2x4 || 2x4 || 2x4 || 13-3-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 56 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. All bearings 13-2-12.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-126(LC 12), 6=-125(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=335(LC 19), 6=335(LC 20)

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

2-8=-316/239, 4-6=-316/239 WEBS

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-13 to 4-9-10, Interior(1) 4-9-10 to 6-7-13, Exterior(2) 6-7-13 to 11-0-10, Interior(1) 11-0-10 to 12-10-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=126, 6=125,



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

Rigid ceiling directly applied or 10-0-0 oc bracing.

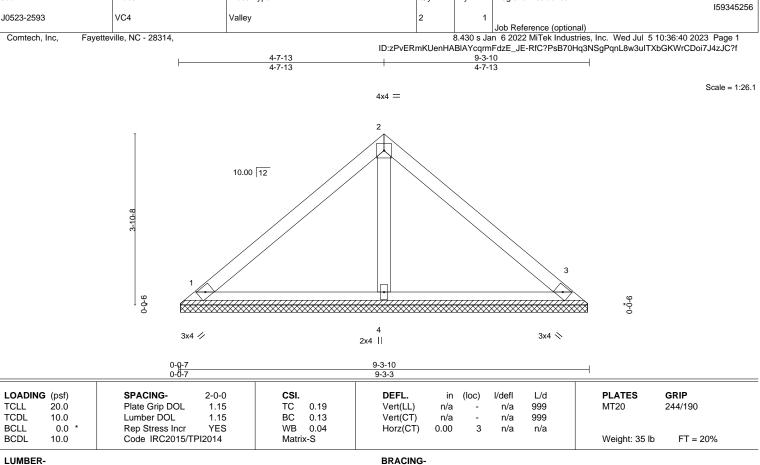
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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818 Soundside Road Edenton, NC 27932



TOP CHORD

BOT CHORD

Qty

Lugiano Residence

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

Rigid ceiling directly applied or 10-0-0 oc bracing.

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS.

1=9-2-12, 3=9-2-12, 4=9-2-12 (size) Max Horz 1=-85(LC 8) Max Uplift 1=-20(LC 13), 3=-28(LC 13)

Max Grav 1=182(LC 1), 3=182(LC 1), 4=317(LC 1)

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

NOTES-

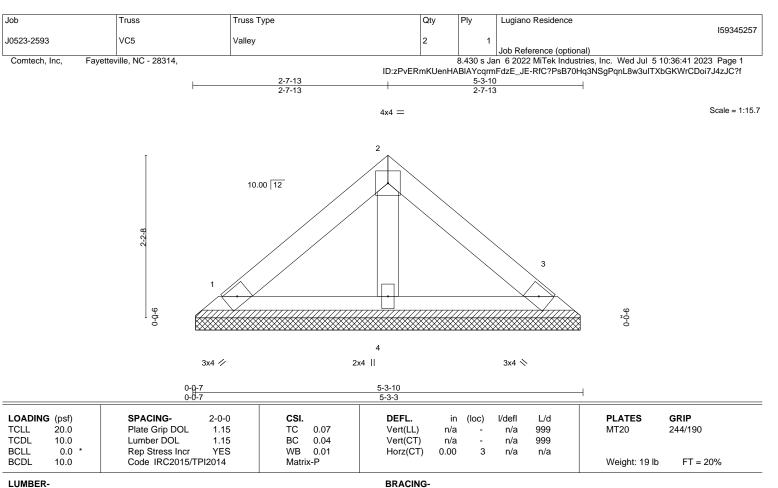
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1

OTHERS 2x4 SP No.2

REACTIONS.

1=5-2-12, 3=5-2-12, 4=5-2-12 (size) Max Horz 1=-45(LC 8) Max Uplift 1=-16(LC 13), 3=-20(LC 13)

Max Grav 1=104(LC 1), 3=104(LC 1), 4=152(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



Structural wood sheathing directly applied or 5-3-10 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

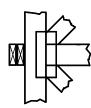
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

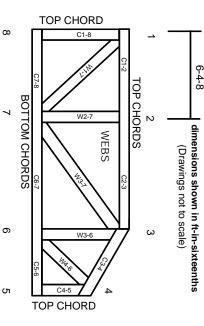
Industry Standards:

National Design Specification for Metal

DSB-89: ANSI/TPI1:

Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ 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.

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

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.

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- 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.

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- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 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
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.