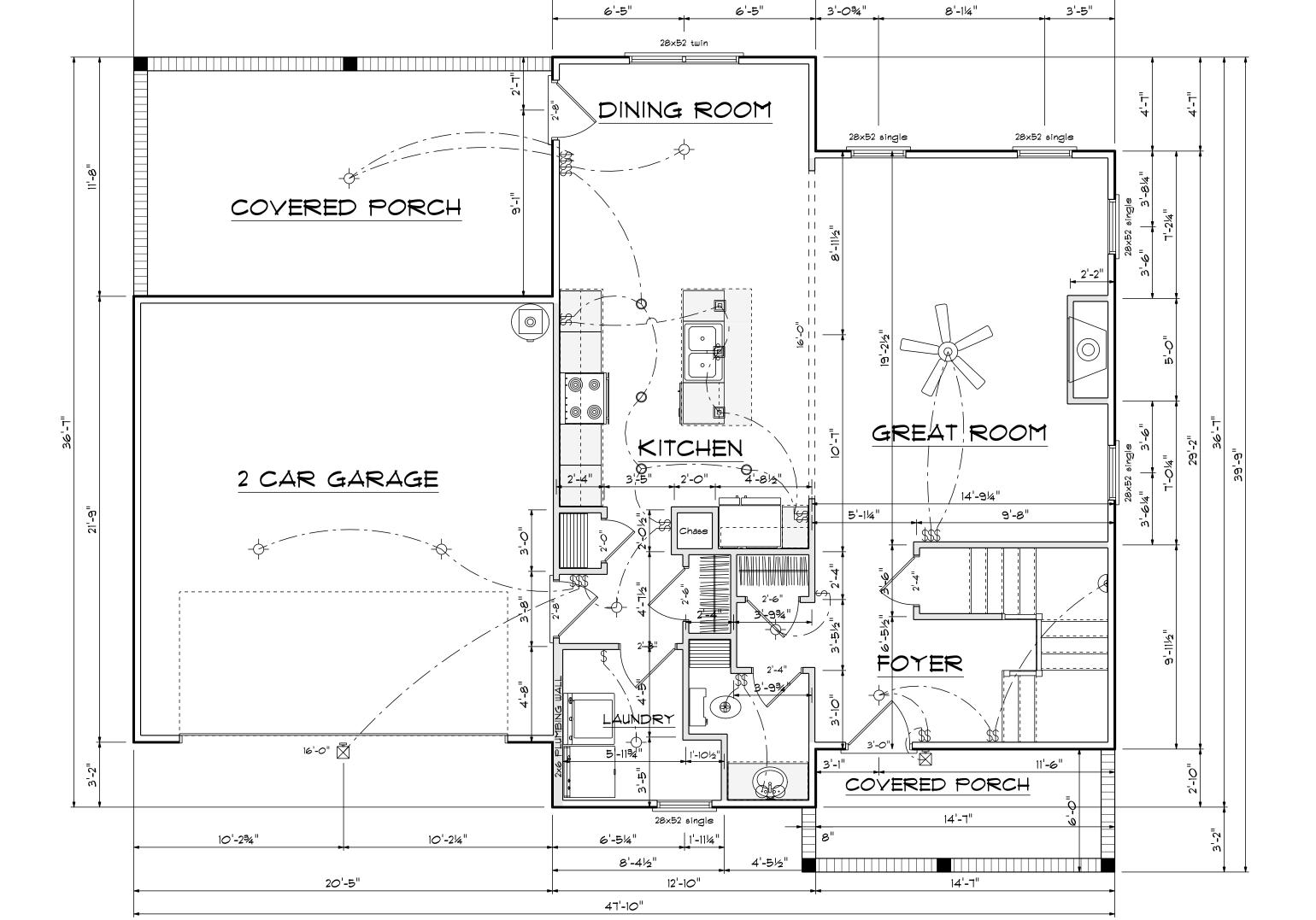


FIRST FLOOR OPENING SCHEDULE										
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT						
36X80 COLONIAL A 1	3'-0"	L	NO	1						
32X80 FRENCH A 1	2'-8"	L	NO	1						
7' x 16' GARAGE DOOR	16'-0"	U	NO	1						
2-0 Door Unit	2'-0"	R	NO	1						
2-4 Door Unit	2'-4"	R	NO	1						
2-4 Door Unit	2'-4"	L	NO	1						
2-6 Door Unit	2'-6"	R	NO	2						
2-8 Door Unit	2'-8"	L	NO	1						
2-8 Door Unit	2'-8"	R	NO	1						
28x52 single	2'-8" x 5'-2"	N	NA	5						
28x52 twin	5'-4" x 5'-2"	NN	NA	1						

Areas

First Floor 899 Second Floor 774 -----

1673 Total Heated 447 Garage Front Porch 89 Rear Porch 237



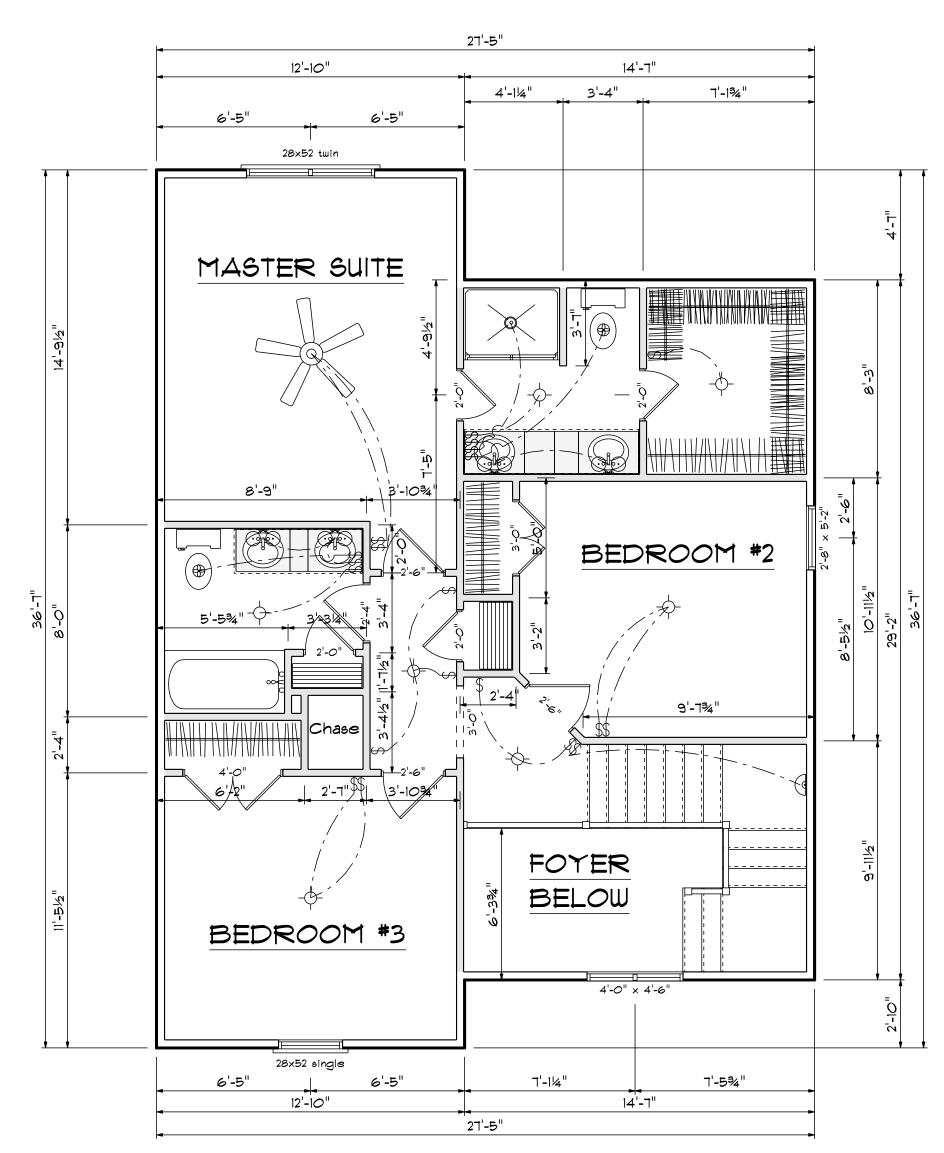
47'-10"

12'-10"

14'-7"

20'-5"

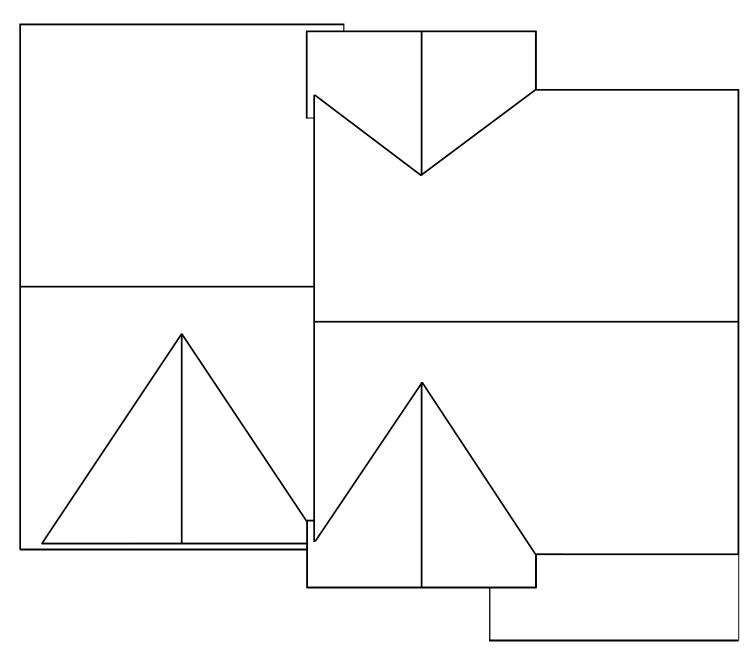
First Floor Plan Scale: 1/4"= 1'-0"



Second Floor Plan

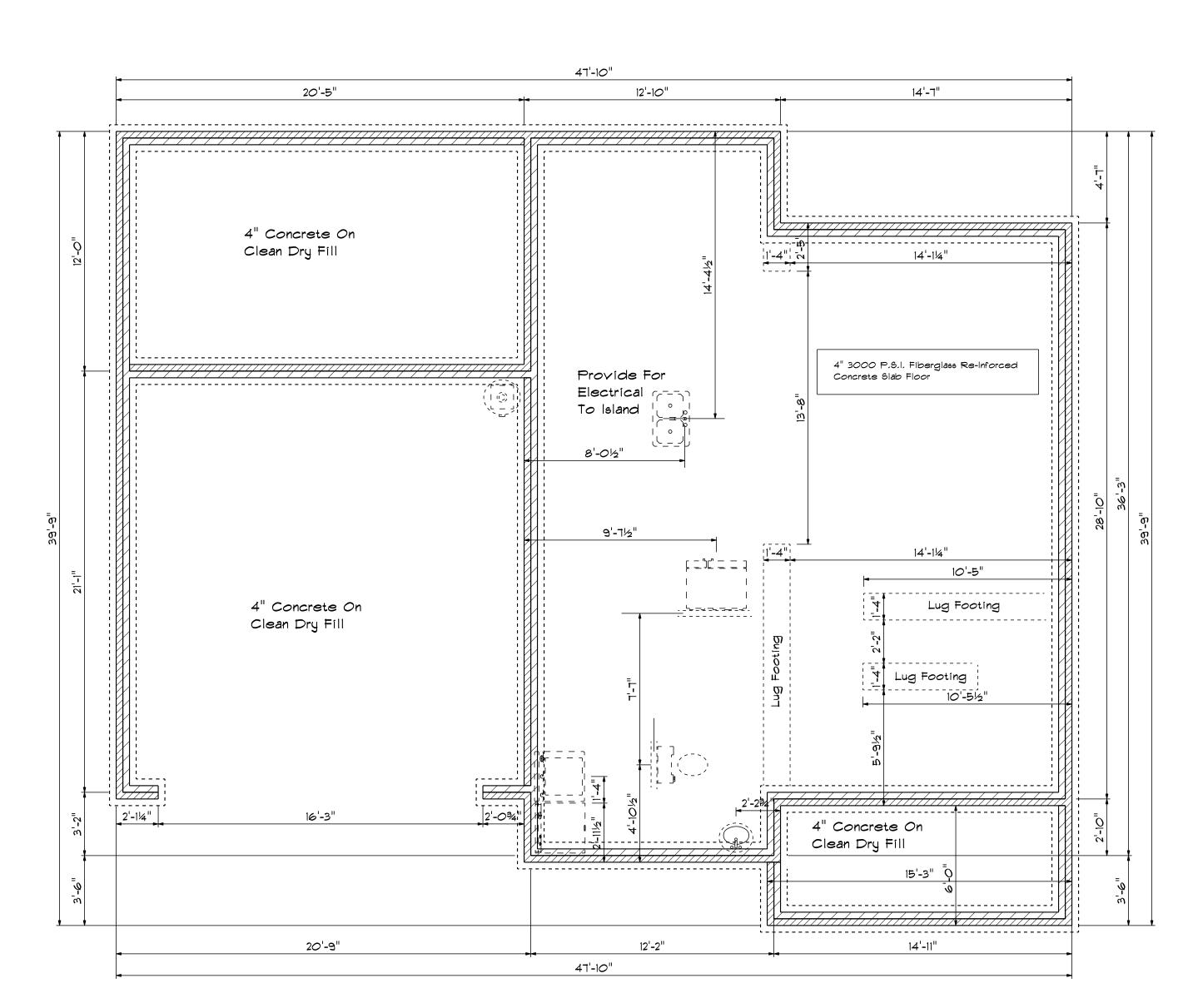
Scale: 1/4"= 1'-0"

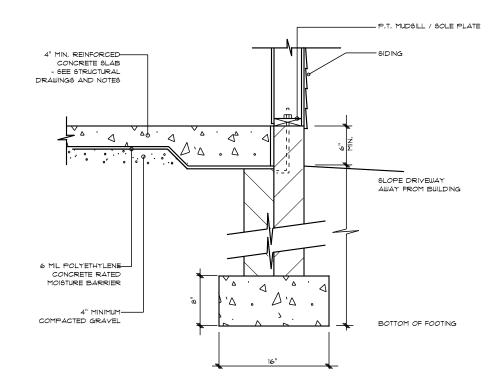
SECOND FLOOR OPENING SCHEDULE											
PRODUCT CODE	SIZE	HINGE	REVERSED	COUNT							
2-0 Door Unit	2'-0"	R	NO	3							
2-0 Door Unit	2'-0"	L	NO	1							
2-4 Door Unit	2'-4"	L	NO	1							
2-6 Door Unit	2'-6"	R	NO	1							
2-6 Door Unit	2'-6"	L	NO	2							
3-0 Doublehung Door Unit	3'-0"	LR	NO	1							
4-0 Doublehung Door Unit	4'-0"	LR	NO	1							
20x46 twin	4'-0" x 4'-6"	NN	NA	1							
28x52 single	2'-8" x 5'-2"	N	NA	2							
28x52 twin	5'-4" x 5'-2"	NN	NA	1							



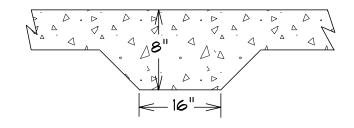
Roof Layout

Almirante





STEM WALL FOOTING DETAIL



LUG FOOTING DETAIL

DATE: 1/15/2022 REVISED DRAWING*

Foundation Plan	1
Scale: 1/4"= 1'-0"	

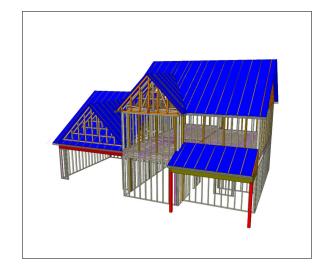


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450



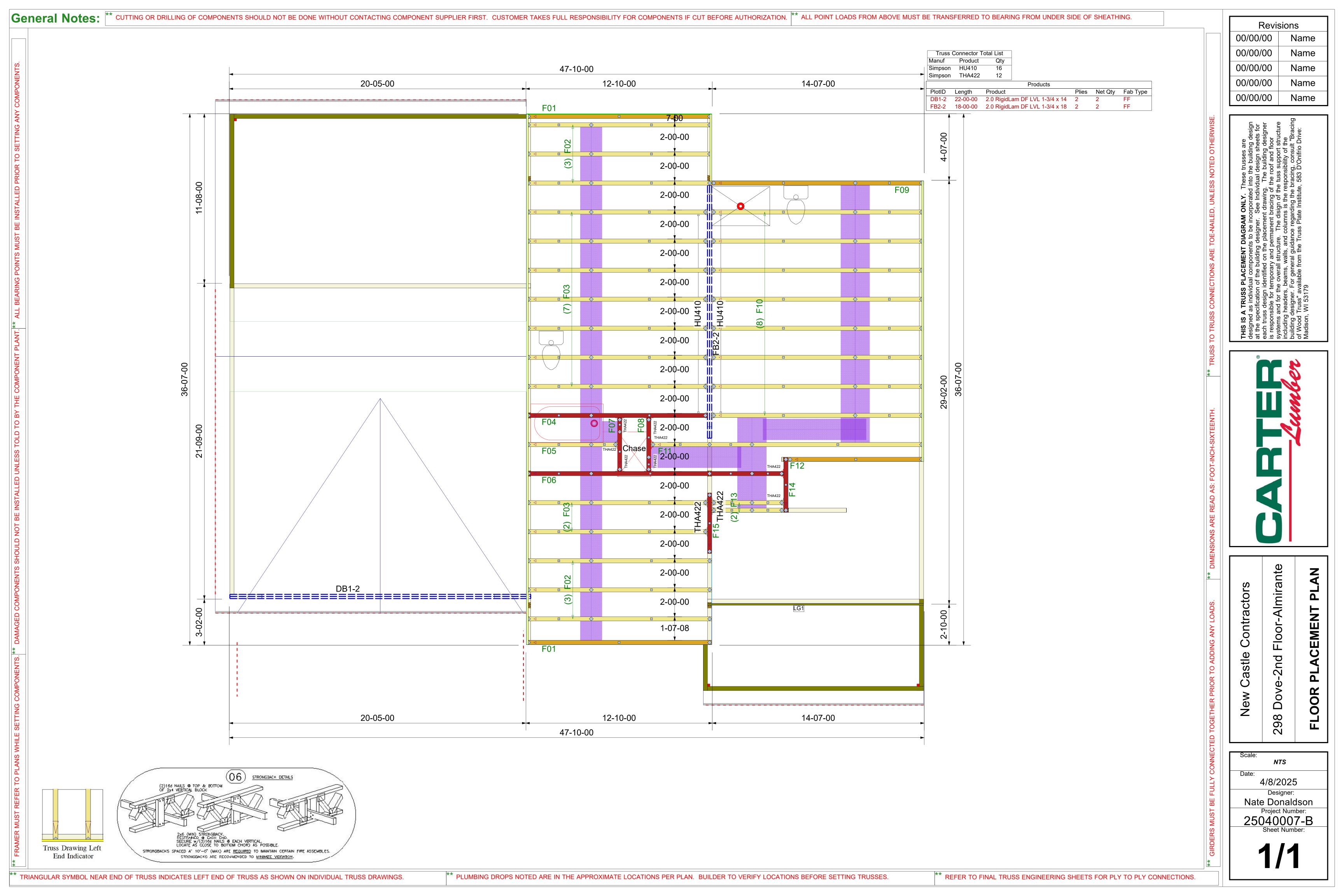
Model: 298 Dove - Almirante



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
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Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25040007-B

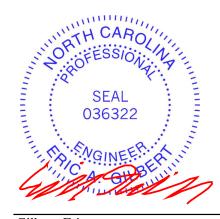
298 Dove-2nd Floor-Almirante

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I72616495 thru I72616509

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

North Carolina COA: C-0844



April 10,2025

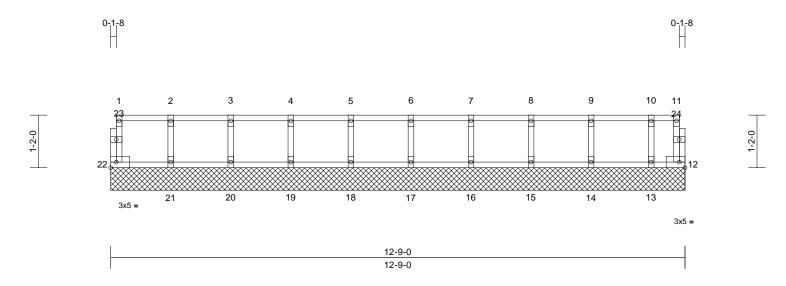
Gilbert, Eric

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

Job	Truss	Truss Type Qty Ply 298 Dove-		298 Dove-2nd Floor-Almirante		
25040007-B	F01	Floor Supported Gable	2	1	Job Reference (optional)	I72616495

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:38 $ID: eJfgp8ia5qMPds_pM7_iORzHCPg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff$

Page: 1



Scale = 1:25.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 55 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

15=12-9-0, 16=12-9-0, 17=12-9-0, 18=12-9-0, 19=12-9-0, 20=12-9-0, 21=12-9-0, 22=12-9-0

12=12-9-0, 13=12-9-0, 14=12-9-0,

Max Grav 12=22 (LC 1), 13=109 (LC 1), 14=153 (LC 1), 15=145 (LC 1), 16=147 (LC 1), 17=147 (LC 1), 18=147 (LC 1), 19=147 (LC 1), 20=147 (LC 1), 21=148 (LC 1),

22=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-22=-49/0, 11-12=-15/0, 1-2=-6/0, 2-3=-6/0,

3-4=-6/0, 4-5=-6/0, 5-6=-6/0, 6-7=-6/0, 7-8=-6/0, 8-9=-6/0, 9-10=-6/0, 10-11=-6/0

BOT CHORD 21-22=0/6, 20-21=0/6, 19-20=0/6, 18-19=0/6, 17-18=0/6, 16-17=0/6, 15-16=0/6, 14-15=0/6,

13-14=0/6, 12-13=0/6

WEBS 2-21=-132/0, 3-20=-134/0, 4-19=-133/0,

5-18=-133/0, 6-17=-133/0, 7-16=-134/0,

8-15=-132/0, 9-14=-139/0, 10-13=-104/0

NOTES

- All plates are 1.5x3 MT20 unless otherwise indicated. 1)
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 3) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.

5) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

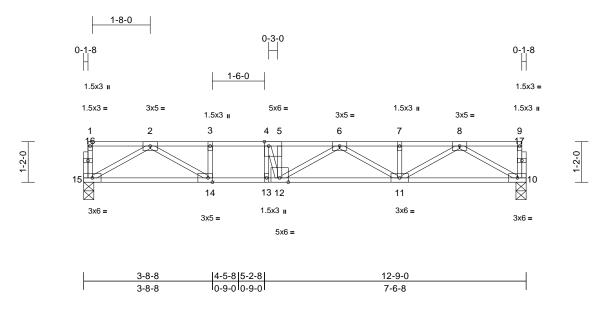




Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F02	Floor	6	1	Job Reference (optional)	172616496

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Page: 1



Scale = 1:33.2

Plate Offsets (X, Y):	[4:0-1-8,Edge], [14:0-	1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.71	Vert(LL)	-0.13	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.18	12-13	>852	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 66 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 10=0-3-8, 15=0-3-8

Max Grav 10=681 (LC 1), 15=681 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

1-15=-81/0, 9-10=-70/0, 1-2=-5/0, 2-3=-1809/0, 3-4=-1809/0, 4-5=-2051/0,

5-6=-2051/0, 6-7=-1692/0, 7-8=-1692/0,

8-9=-4/0

BOT CHORD 14-15=0/1035, 13-14=0/1809, 12-13=0/1809,

11-12=0/2021, 10-11=0/1029

WEBS 3-14=-325/0. 4-13=-472/0. 8-10=-1185/0. 8-11=0/774, 7-11=-164/0, 6-11=-384/0,

6-12=-40/180, 5-12=-433/0, 4-12=0/884,

2-15=-1191/0, 2-14=0/904

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard



April 10,2025

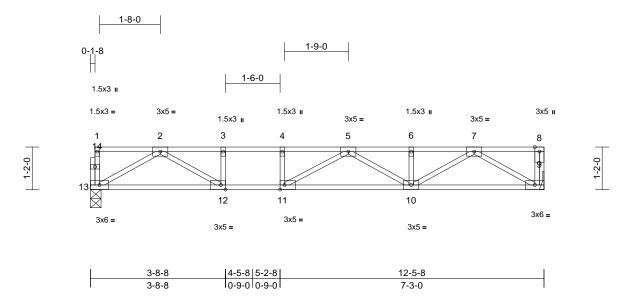


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F03	Floor	9	1	Job Reference (optional)	172616497

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:39 ID:QSFbKtfug_JJjzy8vMklAHzGJlc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.6

Plate Offsets (X, Y):	[11:0-1-8,Edge],	[12:0-1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.19	10-11	>768	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.98	Vert(CT)	-0.26	10-11	>563	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 63 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 2-2-0 oc bracing: 10-11.

REACTIONS (size) 9= Mechanical, 13=0-3-8

Max Grav 9=671 (LC 1), 13=665 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-84/0, 8-9=-72/0, 1-2=-5/0, 2-3=-1785/0, 3-4=-1785/0, 4-5=-1785/0, 5-6=-1647/0,

6-7=-1647/0, 7-8=0/0

BOT CHORD 12-13=0/1004, 11-12=0/1785, 10-11=0/1944,

9-10=0/1012

3-12=-353/0, 4-11=-76/57, 7-9=-1171/0, 7-10=0/741, 6-10=-138/0, 5-10=-346/0,

5-11=-305/172, 2-13=-1155/0, 2-12=0/918

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



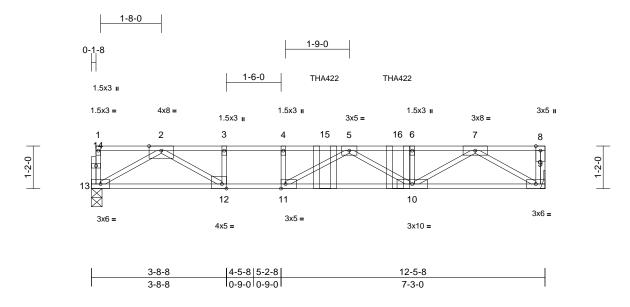
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F04	Floor Girder	1	1	Job Reference (optional)	172616498

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:49:39 ID:zePmdoobmzMdjVs9MHmj?VzGJ4D-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:31.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.89	Vert(LL)	-0.28	10-11	>524	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.36	10-11	>405	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 63 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 9= Mechanical, 13=0-3-8 (size) Max Grav 9=969 (LC 4), 13=841 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-13=-98/0, 8-9=-74/0, 1-2=-6/0, 2-3=-2519/0,

3-4=-2519/0, 4-5=-2519/0, 5-6=-2673/0,

6-7=-2673/0, 7-8=0/0

BOT CHORD 12-13=0/1310, 11-12=0/2519, 10-11=0/3192,

9-10=0/1531

WEBS 3-12=-567/0, 4-11=-56/187, 2-13=-1508/0, 2-12=0/1601. 7-9=-1771/0. 7-10=0/1334.

6-10=-271/0, 5-10=-609/0, 5-11=-822/83

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-5-0 from the left end to 8-5-0 to connect truss(es) to front face of top chord.
- Fill all nail holes where hanger is in contact with lumber. In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00,

Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 9-13=-10, 1-8=-100 Concentrated Loads (lb)

Vert: 15=-253 (F), 16=-165 (F)



April 10,2025

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

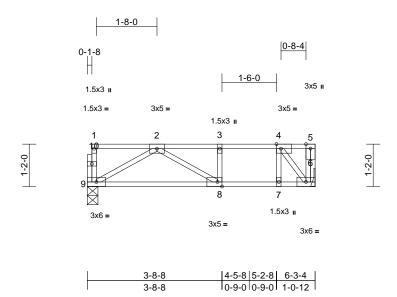
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



١	Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
	25040007-B	F05	Floor	1	1	Job Reference (optional)	172616499

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:39 ID:12otELGJLs4RAPdiCndx3KzGJGX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.58	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.10	8-9	>739	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 34 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6= Mechanical, 9=0-3-8 Max Grav 6=331 (LC 1), 9=325 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-9=-60/0, 5-6=0/101, 1-2=-4/0, 2-3=-393/0,

3-4=-393/0, 4-5=0/0

BOT CHORD 8-9=0/414, 7-8=0/393, 6-7=0/393 WEBS 3-8=-41/0, 4-7=0/156, 2-9=-475/0,

2-8=-39/85, 4-6=-611/0

NOTES

TOP CHORD

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

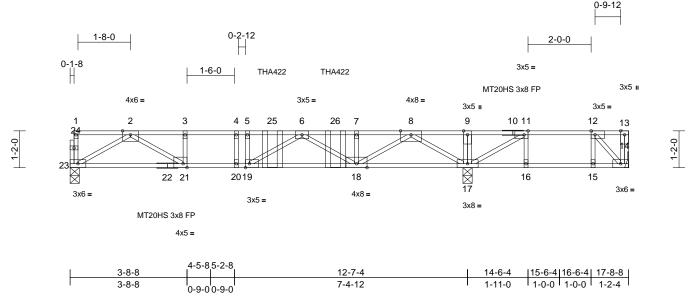




Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F06	Floor Girder	1	1	Job Reference (optional)	72616500

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Page: 1



Scale = 1:36.5

Plate Offsets (X, Y):	[11:0-1-8,Edge], [1:	2:0-1-8, Edge], [19:0-1-	-8,Edge], [21:0-1-	8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.85	Vert(LL)	-0.28	18-19	>528		MT20HS	187/143
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.36	18-19	>413		MT20	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH		, ,					Weight: 90 lb	FT = 20%F, 11%E

LUMBER

BOT CHORD

TOP CHORD 2x4 SP 2400F 2.0E(flat) *Except* 10-13:2x4

SP No.1(flat)

2x4 SP No.2(flat) *Except* 22-14:2x4 SP

2400F 2.0E(flat) 2x4 SP No.3(flat)

WEBS 2x4 SP No.3(flat) **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. except end verticals.

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

bracing

REACTIONS (size) 14= Mechanical, 17=0-3-8,

23=0-3-8

Max Uplift 14=-132 (LC 3)

14=188 (LC 4), 17=1657 (LC 9), Max Grav

23=827 (LC 10)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-23=-103/0, 13-14=-132/0, 1-2=-6/0,

2-3=-2501/0, 3-4=-2501/0, 4-5=-2501/0, 5-6=-2501/0, 6-7=-2015/0, 7-8=-2015/0, 8-9=0/1281, 9-11=0/1281, 11-12=-118/344,

12-13=0/0

BOT CHORD 21-23=0/1278, 20-21=0/2501, 19-20=0/2501,

18-19=0/2812, 17-18=0/618, 16-17=-344/118,

15-16=-344/118, 14-15=-344/118

WEBS 3-21=-543/0. 4-20=-28/27. 9-17=-127/0.

11-16=0/219, 12-15=-248/0, 2-23=-1471/0, 2-21=0/1427, 8-17=-2060/0, 8-18=0/1659, 7-18=-263/0. 6-18=-952/0, 6-19=-561/0, 5-19=0/93, 11-17=-1172/0, 12-14=-170/497

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated. Refer to girder(s) for truss to truss connections

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent spaced at 2-0-0 oc max. starting at 6-5-0 from the left end to 8-5-0 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft)

Vert: 14-23=-10, 1-13=-100

Concentrated Loads (lb)

Vert: 25=-238 (B), 26=-173 (B)



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

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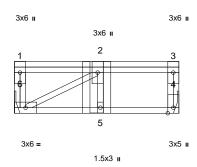
Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F07	Floor Girder	1	1	Job Reference (optional)	172616501

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:40 ID:v8IW?HsgscyWmogkSbR2TSzGJAb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



THA422







2-8-12	3-8-8
2-8-12	0-11-12

Scale = 1:26

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.80	Vert(LL)	-0.08	5-6	>539	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.10	5-6	>406	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	n/a	-	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 25 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

4= Mechanical, 6= Mechanical

Max Grav 4=353 (LC 3), 6=338 (LC 3)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-6=-286/0, 3-4=-298/0, 1-2=0/0, 2-3=0/0

BOT CHORD 5-6=0/0, 4-5=0/0 WEBS 2-5=-73/0, 2-6=0/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 1-10-4 from the left end to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-6=-10, 1-3=-100 Concentrated Loads (lb) Vert: 2=-231 (B)



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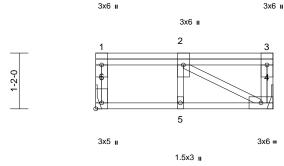
١	Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
	25040007-B	F08	Floor Girder	1	1	Job Reference (optional)	172616502

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:40 ID:pLktyzm9trkF6xAv93lsKZzGJ88-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Special



0-11-12	3-8-8
0-11-12	2-8-12

Scale = 1:24.1

Plate Offsets (X, Y): [6:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.06	5	>676	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.07	4-5	>564	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 25 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.3(flat) WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 6= Mechanical

Max Grav 4=265 (LC 4), 6=273 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-6=-231/0, 3-4=-226/0, 1-2=0/0, 2-3=0/0

BOT CHORD 5-6=0/0, 4-5=0/0 WEBS 2-5=-47/21, 2-4=0/0

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 157 lb down and 236 lb up at 1-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Vert: 2=-77 (F)

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 4-6=-10, 1-3=-100 Concentrated Loads (lb)



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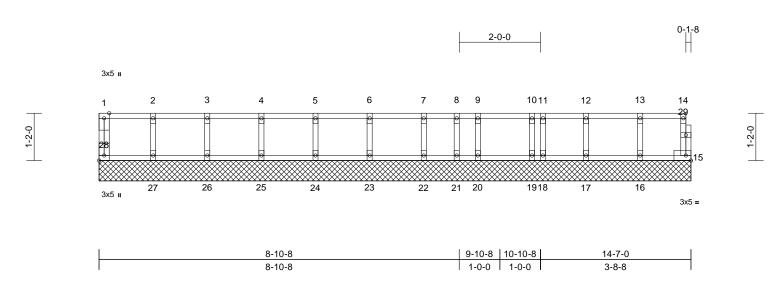
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F09	Floor Supported Gable	1	1	Job Reference (optional)	I72616503

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:40 ID: irK47f? KnU6 oulz DtuOyomz GluL-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full for the control of the c

Page: 1



Scale = 1:28.4

Plate Offsets (X, Y): [28:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 65 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

15=14-7-0, 16=14-7-0, 17=14-7-0, 18=14-7-0, 19=14-7-0, 20=14-7-0, 21=14-7-0, 22=14-7-0, 23=14-7-0, 24=14-7-0, 25=14-7-0, 26=14-7-0,

27=14-7-0, 28=14-7-0

Max Grav 15=51 (LC 1), 16=140 (LC 1), 17=140 (LC 1), 18=38 (LC 1), 19=116 (LC 1), 20=124 (LC 1),

21=37 (LC 1), 22=129 (LC 1), 23=151 (LC 1), 24=146 (LC 1), 25=147 (LC 1), 26=147 (LC 1), 27=144 (LC 1), 28=61 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-28=-56/0, 14-15=-46/0, 1-2=-9/0, 2-3=-9/0, 3-4=-9/0, 4-5=-9/0, 5-6=-9/0, 6-7=-9/0,

7-8=-9/0, 8-9=-9/0, 9-10=-9/0, 10-11=-9/0, 11-12=-9/0, 12-13=-9/0, 13-14=-9/0

27-28=0/9, 26-27=0/9, 25-26=0/9, 24-25=0/9, BOT CHORD 23-24=0/9, 22-23=0/9, 21-22=0/9, 20-21=0/9,

19-20=0/9, 18-19=0/9, 17-18=0/9, 16-17=0/9,

15-16=0/9

WEBS 8-21=-34/0, 11-18=-36/0, 2-27=-131/0,

3-26=-134/0, 4-25=-133/0, 5-24=-132/0, 6-23=-137/0, 7-22=-117/0, 9-20=-113/0, 10-19=-105/0, 12-17=-127/0, 13-16=-128/0

NOTES

1) All plates are 1.5x3 MT20 unless otherwise indicated.

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 10,2025

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

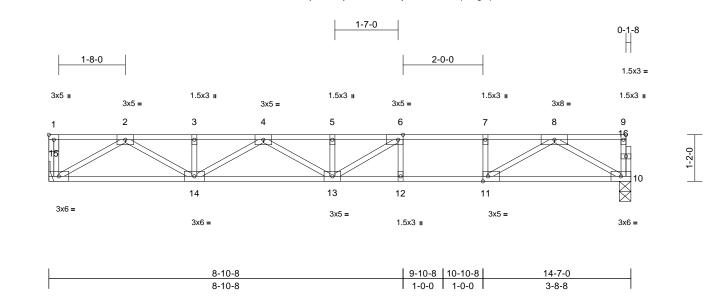
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Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F10	Floor	8	1	Job Reference (optional)	172616504

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:49:40 ID:CtOjzx6P42?ijaBHNCcvcMzGly4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:28.9

Plate Offsets (X, Y):	[1:Edge,0-1-8], [6	6:0-1-8,Edge],	[11:0-1-8,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.94	Vert(LL)	-0.28	12-13	>616	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.38	12-13	>457	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 74 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

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

REACTIONS (size) 10=0-3-8, 15= Mechanical Max Grav 10=782 (LC 1), 15=788 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-73/0, 9-10=-93/0, 1-2=0/0, 2-3=-2026/0, 3-4=-2026/0, 4-5=-2784/0,

5-6=-2784/0, 6-7=-2300/0, 7-8=-2300/0,

8-9=-6/0

BOT CHORD 14-15=0/1200, 13-14=0/2527, 12-13=0/2300,

11-12=0/2300, 10-11=0/1221

WEBS 6-12=-275/0, 7-11=-446/0, 2-15=-1388/0, 2-14=0/965, 3-14=-171/0, 4-14=-584/0,

4-13=0/300, 5-13=-316/0, 6-13=-53/690,

8-10=-1406/0, 8-11=0/1260

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 10,2025

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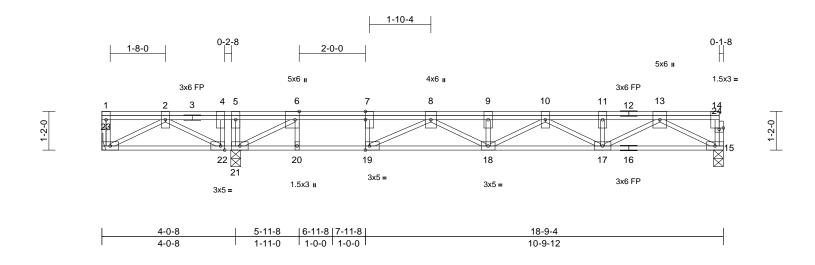
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Job	Truss	Truss Type Qty Ply 298 Dove-2nd Floor-Almirante				
25040007-B	F11	Floor	1	1	Job Reference (optional)	172616505

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries. Inc. Thu Apr 10 17:24:36 ID:M5_nOtPLfENKwcfj3SIRkfzGJDm-6IXpJe88ap35wZ?tVCb4G_t27wSM_oZV42X?R8zSDGR

Page: 1



Scale = 1:34.8

Plate Offsets (X, Y): [6:0-3-0,Edge], [7:0-3-0,Edge], [19:0-1-8,Edge], [22:0-1-8,Edge], [24:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.20	18-19	>856	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.29	18-19	>609	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 121 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E(flat) **BOT CHORD** 2x4 SP 2400F 2.0E(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 22-23,21-22.

15=740/0-3-8, 21=1287/0-3-8, REACTIONS (lb/size) 23=4/ Mechanical

Max Uplift 23=-153 (LC 4)

15=740 (LC 1), 21=1287 (LC 1), Max Grav

23=160 (LC 3)

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

(lb) or less except when shown.

2-3=0/825, 3-4=0/825, 4-5=0/825, 5-6=0/825,

TOP CHORD 6-7=-1199/0, 7-8=-1199/0, 8-9=-2592/0,

9-10=-2592/0, 10-11=-2000/0, 11-12=-2000/0,

12-13=-2000/0

BOT CHORD 22-23=-314/138, 21-22=-825/0,

20-21=0/1199, 19-20=0/1199, 18-19=0/2442, 17-18=0/2439, 16-17=0/1175, 15-16=0/1175

13-15=-1333/0, 13-17=0/948, 10-17=-505/0, 8-19=-1411/0, 2-23=-157/357, 2-22=-747/0, 4-22=0/350, 6-21=-2287/0, 5-21=-314/0,

7-19=0/567

NOTES

WEBS

- 1) Unbalanced floor live loads have been considered for this design.
- All plates are 3x6 MT20 unless otherwise indicated.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint

- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard



April 10,2025

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

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

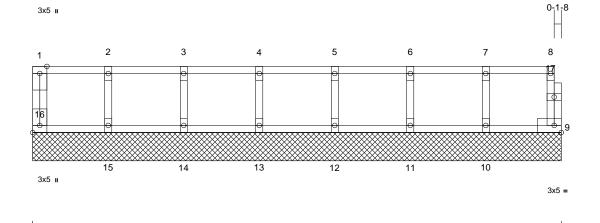


Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F12	Floor Supported Gable	1	1	Job Reference (optional)	I72616506

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:49:40 ID:?OgRucTj9yZ1cXbmlfcd0UzGIv1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





9-4-0 9-4-0

Scale = 1:20.3

Plate Offsets (X, Y): [16:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MR							Weight: 41 lb	FT = 20%F, 11%E

LOAD CASE(S) Standard

 TOP CHORD
 2x4 SP No.2(flat)

 BOT CHORD
 2x4 SP No.2(flat)

 WEBS
 2x4 SP No.3(flat)

 OTHERS
 2x4 SP No.3(flat)

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 9=9-4-0, 10=9-4-0, 11=9-4-0, 12=9-4-0, 13=9-4-0, 14=9-4-0,

15=9-4-0, 15=9-4-0, 14=9-4-0 15=9-4-0, 16=9-4-0

Max Grav 9=57 (LC 1), 10=142 (LC 1),

11=148 (LC 1), 12=146 (LC 1), 13=146 (LC 1), 14=148 (LC 1),

15=146 (LC 1), 14=146 (LC 1) 15=142 (LC 1), 16=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-57/0, 8-9=-51/0, 1-2=-10/0, 2-3=-10/0,

3-4=-10/0, 4-5=-10/0, 5-6=-10/0, 6-7=-10/0,

7-8=-10/0

BOT CHORD 15-16=0/10, 14-15=0/10, 13-14=0/10,

12-13=0/10, 11-12=0/10, 10-11=0/10,

9-10=0/10

WEBS 2-15=-130/0, 3-14=-134/0, 4-13=-133/0,

5-12=-133/0, 6-11=-134/0, 7-10=-130/0

NOTES

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



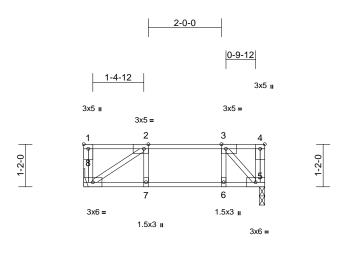
CINEEDING BY



١	Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
	25040007-B	F13	Floor	2	1	Job Reference (optional)	172616507

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Page: 1



1-9-4 2-9-4 | 3-9-4 | 4-11-8 1-0-0 1-0-0 1-2-4 1-9-4

Scale = 1:31.6

Plate Offsets (X, Y): [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.02	7-8	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.25	Vert(CT)	-0.02	7-8	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MSH							Weight: 27 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) BOT CHORD 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5=0-1-12, 8= Mechanical Max Grav 5=259 (LC 1), 8=259 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-71/0, 4-5=-13/41, 1-2=0/0, 2-3=-264/0,

3-4=0/0

BOT CHORD 7-8=0/264, 6-7=0/264, 5-6=0/264

WEBS 2-7=-17/15, 3-6=0/66, 2-8=-315/0, 3-5=-381/0

NOTES

- Unbalanced floor live loads have been considered for 1) this design.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

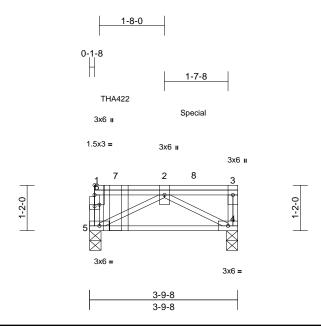




Job	Truss	Truss Type	Qty	Ply	298 Dove-2nd Floor-Almirante	
25040007-B	F14	Floor Girder	1	1	Job Reference (optional)	172616508

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Page: 1



Scale = 1:29.5

Plate Offsets (X, Y): [6:0-1-8,0-0-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.21	Vert(CT)	-0.03	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 27 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat) 2x4 SP No.3(flat) WEBS 2x4 SP No.3(flat) OTHERS

BRACING TOP CHORD Structural wood sheathing directly applied or

3-9-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 4=0-3-8, 5=0-3-8 (size)

Max Grav 4=290 (LC 1), 5=372 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-5=-187/0, 3-4=-94/11, 1-2=-12/0, 2-3=0/0

BOT CHORD 4-5=0/318

2-5=-349/0, 2-4=-365/0 WFBS

NOTES

- 1) Unbalanced floor live loads have been considered for this design.
- Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 0-8-0 from the left end to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 227 lb up at 2-8-0 on top chord. The design/ selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (lb/ft) Vert: 4-5=-10, 1-3=-100

Concentrated Loads (lb) Vert: 7=-185 (B), 8=-93 (B)



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Ply Truss Type Job Truss Qty 298 Dove-2nd Floor-Almirante 172616509 25040007-B F15 Floor Girder Job Reference (optional)

THA422

Carter Components (Sanford, NC), Sanford, NC - 27332,

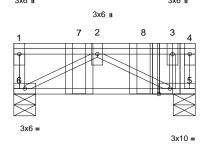
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Page: 1

THA422

THA422

THA422 1-8-0 3x6 II 3x6 ı 3x6 II



4-2-0 4-2-0

Scale = 1:26.5

Plate Offsets (X, Y): [5:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.04	5-6	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code	IRC2021/TPI2014	Matrix-MP							Weight: 30 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat) **BOT CHORD** WEBS

2x4 SP No.3(flat)

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 5=0-6-0, 6=0-6-0 (size)

Max Grav 5=1230 (LC 1), 6=708 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-6=-168/0, 4-5=0/15, 1-2=0/0, 2-3=-391/0,

3-4=0/0

BOT CHORD 5-6=0/952 **WEBS** 2-6=-1085/0, 2-5=-618/0, 3-5=-1042/0

NOTES

- Recommend 2x6 strongbacks, on edge, spaced at 1) 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 0-6-4 oc max. starting at 2-11-12 from the left end to 3-6-0 to connect truss(es) to front face of top chord.
- Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-0 from the left end to 3-6-0 to connect truss(es) to back face of top chord.
- Fill all nail holes where hanger is in contact with lumber.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (lb/ft) Vert: 5-6=-10, 1-4=-100

Concentrated Loads (lb)

Vert: 3=-776 (F=-182, B=-594), 7=-571 (B), 8=-159





Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y 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 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/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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



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

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

œ

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.



Customer: Street 1: City:

Customer Ph.

Job Name: B

Level: 1st FLOOR Label: DB1-2 - i79 Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14

Status: Design **Passed**

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2023.09.18 04/08/2025 14:20 8.7.3.303.Update13.26 20-08-08 Ply to Ply Zones 1 1 1 1 1 1 1 1 1 Î 2

16-00-00

20-08-08

DEGICA	INFORM	IATION a
DESIGN	HINEURIV	IATION A

IRC 2021 **Building Code:** Design Methodology: ASD

II (General Construction) Risk Category:

Residential

2-02-08

Service Condition: Dry System Spacing:

LL Deflection Limit: L/360, 0.75" (absolute) L/240, 1.00" (absolute) TL Deflection Limit:

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 1'- 10 1/2" Bottom: 20'- 8 1/2"

Bearing Stress of Support Material:

- 725 psi Wall @ 0'- 1 1/2"
- 725 psi Wall @ 2'- 1"
- 725 psi Wall @ 18'- 4"
- 725 psi Wall @ 20'- 7"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	10'- 3/4"	D + Lr	1.15	11091 lb ft	33318 lb ft	Passed - 33%
Max Neg. Moment:	2'- 1"	D + Lr	1.15	16201 lb ft	21327 lb ft	Passed - 76%
Max Shear:	3'- 4 1/2"	D + Lr	1.15	5585 lb	10894 lb	Passed - 51%
Live Load (LL) Pos. Defl.:	10'- 2 7/8"	Lr		0.120"	L/360	Passed - L/999
Total Load (TL) Pos. Defl.:	10'- 2 7/8"	D + Lr		0.211"	L/240	Passed - L/911

2-06-00

SUF	SUPPORT AND REACTION INFORMATION											
ID	Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result				
1	9-04	0.6D + 0.6W	1.60	1775 lb		33783 lb	23472 lb	Passed - 8%				
1	9-04	D + Lr	1.15		-8188 lb	-	-					
1	1-05-04	D + Lr	1.15	14965 lb		45281 lb	43772 lb	Passed - 34%				
1	1-05-04	0.6D + 0.6W	1.60		-3294 lb	-	-					
2	1-08-04	D + Lr	1.15	13843 lb		53156 lb	51384 lb	Passed - 27%				
2	1-08-04	0.6D + 0.6W	1.60		-3026 lb	-	-					
2	9-12	0.6D + 0.6W	1.60	1567 lb		35609 lb	24741 lb	Passed - 6%				
2	9-12	D + Lr	1.15		-6748 lb	-	-					

NG								
Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
0'	20'- 8 1/2"	Self Weight	Тор	13 lb/ft	-	-	-	-
3'- 3/4"	9'- 3/4"	Smoothed Load	Top	310 lb/ft	-	252 lb/ft	379 To 432 lb/ft	116 To 130 lb/ft
0'- 3/4"	0'- 3/4"	A01(c01)	Top	62 lb	-	61 lb	92 lb	35/-187 lb
2'- 3/4"	2'- 3/4"	A02(c09)	Top	510 lb	-	388 lb	589/-29 lb	178/-820 lb
4'- 3/4"	4'- 3/4"	A02(c01)	Top	-	-	-	-20 lb	-986 lb
6'- 3/4"	6'- 3/4"	A02(c05)	Top	-	-	-	-17 lb	-1055 lb
8'- 3/4"	8'- 3/4"	A02(c04)	Top	-	-	-	-19 lb	-1032 lb
10'- 3/4"	10'- 3/4"	A02(c03)	Top	827 lb	-	725 lb	1226/-14 lb	375/-1505 lb
12'- 3/4"	12'- 3/4"	A02(c07)	Top	657 lb	-	544 lb	880/-14 lb	268/-1080 lb
14'- 3/4"	14'- 3/4"	A02(c02)	Top	644 lb	-	531 lb	871/-15 lb	260/-1070 lb
16'- 3/4"	16'- 3/4"	A02(c10)	Top	598 lb	-	481 lb	762/-14 lb	232/-983 lb
18'- 3/4"	18'- 3/4"	A02(c06)	Top	540 lb	-	419 lb	659/-47 lb	197/-902 lb
20'- 3/4"	20'- 3/4"	A02(c08)	Тор	403 lb	-	246 lb	365/-9 lb	123/-499 lb
	Start Loc 0' 3'- 3/4" 0'- 3/4" 2'- 3/4" 4'- 3/4" 6'- 3/4" 10'- 3/4" 12'- 3/4" 14'- 3/4" 16'- 3/4"	Start Loc End Loc 0' 20'- 8 1/2" 3'- 3/4" 9'- 3/4" 0'- 3/4" 0'- 3/4" 2'- 3/4" 2'- 3/4" 4'- 3/4" 4'- 3/4" 6'- 3/4" 6'- 3/4" 10'- 3/4" 10'- 3/4" 12'- 3/4" 12'- 3/4" 14'- 3/4" 14'- 3/4" 16'- 3/4" 16'- 3/4" 18'- 3/4" 18'- 3/4"	Start Loc End Loc Source 0' 20'- 8 1/2" Self Weight 3'- 3/4" 9'- 3/4" Smoothed Load 0'- 3/4" 0'- 3/4" A01(c01) 2'- 3/4" 2'- 3/4" A02(c09) 4'- 3/4" 4'- 3/4" A02(c01) 6'- 3/4" 6'- 3/4" A02(c05) 8'- 3/4" 8'- 3/4" A02(c04) 10'- 3/4" 10'- 3/4" A02(c03) 12'- 3/4" 12'- 3/4" A02(c07) 14'- 3/4" 14'- 3/4" A02(c02) 16'- 3/4" 16'- 3/4" A02(c10) 18'- 3/4" 18'- 3/4" A02(c06)	Start Loc End Loc Source Face 0' 20'- 8 1/2" Self Weight Top 3'- 3/4" 9'- 3/4" Smoothed Load Top 0'- 3/4" 0'- 3/4" A01(c01) Top 2'- 3/4" 2'- 3/4" A02(c09) Top 4'- 3/4" 4'- 3/4" A02(c01) Top 6'- 3/4" 6'- 3/4" A02(c05) Top 8'- 3/4" 8'- 3/4" A02(c04) Top 10'- 3/4" 10'- 3/4" A02(c03) Top 12'- 3/4" 12'- 3/4" A02(c07) Top 14'- 3/4" 14'- 3/4" A02(c02) Top 16'- 3/4" 16'- 3/4" A02(c01) Top 18'- 3/4" A02(c06) Top	Start Loc End Loc Source Face Dead (D) 0' 20'- 8 1/2" Self Weight Top 13 lb/ft 3'- 3/4" 9'- 3/4" Smoothed Load Top 310 lb/ft 0'- 3/4" 0'- 3/4" A01(c01) Top 62 lb 2'- 3/4" 2'- 3/4" A02(c09) Top 510 lb 4'- 3/4" 4'- 3/4" A02(c01) Top - 6'- 3/4" 6'- 3/4" A02(c05) Top - 8'- 3/4" 8'- 3/4" A02(c04) Top - 10'- 3/4" 10'- 3/4" A02(c03) Top 827 lb 12'- 3/4" 12'- 3/4" A02(c07) Top 657 lb 14'- 3/4" 14'- 3/4" A02(c02) Top 644 lb 16'- 3/4" A02(c00) Top 598 lb 18'- 3/4" 18'- 3/4" A02(c06) Top 540 lb	Start Loc End Loc Source Face Dead (D) Live (L) 0' 20'- 8 1/2" Self Weight Top 13 lb/ft - 3'- 3/4" 9'- 3/4" Smoothed Load Top 310 lb/ft - 0'- 3/4" 0'- 3/4" A01(c01) Top 62 lb - 2'- 3/4" 2'- 3/4" A02(c09) Top 510 lb - 4'- 3/4" 4'- 3/4" A02(c01) Top - - 6'- 3/4" 6'- 3/4" A02(c05) Top - - 8'- 3/4" 8'- 3/4" A02(c03) Top 827 lb - 10'- 3/4" 10'- 3/4" A02(c03) Top 827 lb - 12'- 3/4" 12'- 3/4" A02(c07) Top 657 lb - 12'- 3/4" 14'- 3/4" A02(c02) Top 644 lb - 14'- 3/4" 16'- 3/4" A02(c01) Top 598 lb - 16'- 3/4" 16'- 3/4" A02(c06)	Start Loc End Loc Source Face Dead (D) Live (L) Snow (S) 0' 20'- 8 1/2" Self Weight Top 13 lb/ft - - 3'- 3/4" 9'- 3/4" Smoothed Load Top 310 lb/ft - 252 lb/ft 0'- 3/4" 0'- 3/4" A01(c01) Top 62 lb - 61 lb 2'- 3/4" 2'- 3/4" A02(c09) Top 510 lb - 388 lb 4'- 3/4" 4'- 3/4" A02(c01) Top - - - 6'- 3/4" 6'- 3/4" A02(c05) Top - - - 8'- 3/4" 8'- 3/4" A02(c04) Top - - - 10'- 3/4" 10'- 3/4" A02(c03) Top 827 lb - 725 lb 12'- 3/4" 12'- 3/4" A02(c07) Top 657 lb - 544 lb 14'- 3/4" 14'- 3/4" A02(c02) Top 644 lb - 531 lb	Start Loc End Loc Source Face Dead (D) Live (L) Snow (S) Roof Live (Lr) 0' 20'- 8 1/2" Self Weight Top 13 lb/ft - - - - 3'- 3/4" 9'- 3/4" Smoothed Load Top 310 lb/ft - 252 lb/ft 379 To 432 lb/ft 0'- 3/4" 0'- 3/4" A01(c01) Top 62 lb - 61 lb 92 lb 2'- 3/4" 2'- 3/4" A02(c09) Top 510 lb - 388 lb 589/-29 lb 4'- 3/4" 4'- 3/4" A02(c01) Top - - - -20 lb 6'- 3/4" 6'- 3/4" A02(c05) Top - - - -17 lb 8'- 3/4" 8'- 3/4" A02(c04) Top - - - -19 lb 10'- 3/4" 10'- 3/4" A02(c03) Top 827 lb - 725 lb 1226/-14 lb 12'- 3/4" 12'- 3/4" A02(c07) Top 657 lb

Point	20'- 3/4"	20'- 3/4"	A02(c08)	Top	403 lb	-	246 lb	365/-9 lb	123/-499 lb				
UNFAC	UNFACTORED REACTIONS												
ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)				
1	0'	2'- 2 1/2"	E22(i63)		8466/-4878 lb	-	6770/-3939 lb	11389/-6989 lb	313 lb/ -5752 lb				
==>	0'- 1 1/2"	0'- 1 1/2"	E22(i63)		-4878 lb	-	-3939 lb	170/-6700 lb	-				
==>	2'- 1"	2'- 1"	E22(i63)		8466 lb	-	6770 lb	11219/-289 lb	-				
2	18'- 2 1/2"	20'- 8 1/2"	E11(i7)		2785 lb	-	2079 lb	3592/-244 lb	313 lb/ -5752 lb				
==>	18'- 4"	18'- 4"	E11(i7)		2785 lb	-	2079 lb	3318/-166 lb	-				
==>	20'- 7"	20'- 7"	E11(i7)		-	-	-	274/-78 lb	-				

DESIGN NOTES

- · CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.



Customer: Street 1: City:

Customer Ph..

tomer:

Job Name: B

Level: 1st FLOOR
Label: DB1-2 - i79
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14 Status:

Design
Passed

DESIGN NOTES

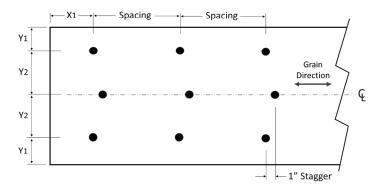
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.99
- Beam Stability Factor used in the calculation for Allowable Max Neg Moment (CL) = 0.47

PLY TO PLY CONNECTION

Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 63. Row = 3, Spacing = 12" 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.

FASTENER INSTALLATION - 3 ROWS (FROM ONE FACE)





Customer: Street 1: City:

Customer Ph.

Job Name: **B**

Level: 1st FLOOR
Label: FB2-2 - i78
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 18

Report Version: 2023.09.18

Status:

Design
Passed

04/08/2025 14:20

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version 8.7.3.303.Update13.26

O 17-05-00

A Ply to Ply Zones

1 2 2

16-00-00 17-05-00

DESIGN INFORMATION a

Building Code: IRC 2021 Design Methodology: ASD

Risk Category: II (General Construction)

Residential

9-08

Service Condition: Dry System Spacing: -

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 8 1/2"

Bearing Stress of Support Material:

- 1323 psi Wall @ 0'- 8 1/2"
- 725 psi Wall @ 16'- 10 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	9'- 6 3/4"	D + L	1.00	25538 lb ft	46413 lb ft	Passed - 55%
Max Shear:	15'- 3 1/2"	D + L	1.00	6029 lb	12180 lb	Passed - 50%
Live Load (LL) Pos. Defl.:	8'- 9 7/16"	L		0.252"	L/360	Passed - L/761
Total Load (TL) Pos. Defl.:	8'- 9 7/16"	D + L		0.354"	L/240	Passed - L/543

Т	SUP	PORT AND F	REACTION	INFORMATIC	N						
	ID	Input Bearing Length	Controlling Combina		-	nward action F	Uplift Reaction	Resistance of Member	Resistance of Support	ı	Result
ı	1	9-08	D + L	1.0	0 66	07 lb		24937 lb	43990 lb	Pass	sed - 26%
,	2	7-08	D + L	1.0	0 609	94 lb		19687 lb	19031 lb	Pass	sed - 32%
ı	LOA	DING									
l	Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live ((L) Snov	(S) Roof Li	ve (Lr)	Wind (W)
1	Self	. 0'	17'- 5"	Self Weight	Top	17 lb/ft		_	_		_

Self Weight O' 17'-5" Self Weight Top 17 lb/ft - - - - - -	Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Uniform 4'- 6 3/4" 16'- 6 3/4" Smoothed Load Back 95 lb/ft 255 lb/ft 0 lb 1 lb 0 lb/ft 0 lb/ft		0'	17'- 5"	Self Weight	Тор	17 lb/ft	-	-	-	-
Point 1'- 6 3/4" 1'- 6 3/4" - Front 485 lb 1267/-2 lb 1 lb 1 lb 0/-2 lb Point 3'- 6 3/4" 3'- 6 3/4" - Front 410 lb 1105 lb 0 lb 1 lb 0/-2 lb Point 5'- 6 3/4" 5'- 6 3/4" - Front - - - -2 lb Point 7'- 6 3/4" 7'- 6 3/4" - Front - - - -2 lb Point 9'- 6 3/4" - Front - - - -2 lb Point 11'- 6 3/4" 11'- 6 3/4" - Front - - - -2 lb Point 13'- 6 3/4" 13'- 6 3/4" - Front - - - -2 lb	Uniform	4'- 6 3/4"	16'- 6 3/4"	Smoothed Load	Front	111 lb/ft	299 lb/ft	-	-	-
Point 3'- 6 3/4" 3'- 6 3/4" - Front 410 lb 1105 lb 0 lb 1 lb 0/-2 lb Point 5'- 6 3/4" 5'- 6 3/4" - Front - - - -2 lb Point 7'- 6 3/4" 7'- 6 3/4" - Front - - - -2 lb Point 9'- 6 3/4" - Front - - - -2 lb Point 11'- 6 3/4" 11'- 6 3/4" - Front - - - -2 lb Point 13'- 6 3/4" 13'- 6 3/4" - Front - - - - -2 lb	Uniform	4'- 6 3/4"	16'- 6 3/4"	Smoothed Load	Back	95 lb/ft	255 lb/ft	0 lb/ft	0 lb/ft	0 lb/ft
Point 5'- 6 3/4" 5'- 6 3/4" - Front - - - -2 lb Point 7'- 6 3/4" 7'- 6 3/4" - Front - - - -2 lb Point 9'- 6 3/4" 9'- 6 3/4" - Front - - - -2 lb Point 11'- 6 3/4" 11'- 6 3/4" - Front - - - -2 lb Point 13'- 6 3/4" 13'- 6 3/4" - Front - - - - -2 lb	Point	1'- 6 3/4"	1'- 6 3/4"	-	Front	485 lb	1267/-2 lb	1 lb	1 lb	0/-2 lb
Point 7'- 6 3/4" 7'- 6 3/4" - Front - - - -2 lb Point 9'- 6 3/4" 9'- 6 3/4" - Front - - - - -2 lb Point 11'- 6 3/4" 11'- 6 3/4" - Front - - - - -2 lb Point 13'- 6 3/4" 13'- 6 3/4" - Front - - - - -2 lb	Point	3'- 6 3/4"	3'- 6 3/4"	-	Front	410 lb	1105 lb	0 lb	1 lb	0/-2 lb
Point 9'-6 3/4" 9'-6 3/4" - Front - - - -2 lb Point 11'-6 3/4" 11'-6 3/4" - Front - - - - -2 lb Point 13'-6 3/4" 13'-6 3/4" - Front - - - - -2 lb	Point	5'- 6 3/4"	5'- 6 3/4"	-	Front	-	-	-	-	-2 lb
Point 11'- 6 3/4" 11'- 6 3/4" - Front - - - - -2 lb Point 13'- 6 3/4" 13'- 6 3/4" - Front - - - - -2 lb	Point	7'- 6 3/4"	7'- 6 3/4"	-	Front	-	-	-	-	-2 lb
Point 13'- 6 3/4" 13'- 6 3/4" - Front 2 lb	Point	9'- 6 3/4"	9'- 6 3/4"	-	Front	-	-	-	-	-2 lb
	Point	11'- 6 3/4"	11'- 6 3/4"	-	Front	-	-	-	-	-2 lb
Point 15'- 6 3/4" 15'- 6 3/4" - Front2 lb	Point	13'- 6 3/4"	13'- 6 3/4"	-	Front	-	-	-	-	-2 lb
	Point	15'- 6 3/4"	15'- 6 3/4"	-	Front	-	-	-	=	-2 lb

UNFAC	TORED RE	EACTIONS							
ID	Start Loc	End Loc	Source	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)	
1	0'	0'- 9 1/2"	E24(i72)	1907 lb	4700/-2 lb	2 lb	3 lb	2 lb/ -8 lb	
2	16'- 9 1/2"	17'- 5"	E25(i73)	1754 lb	4340 lb	2 lb	3 lb	2 lb/ -8 lb	

DESIGN NOTES

- The dead loads used in the design of this member were applied to the structure as projected dead loads
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- · Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 1.00

PLY TO PLY CONNECTION

- Zone A: Factored load = 468 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 54. Row = 3, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.
 - X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph.. Job Name: **B**

Level: 1st FLOOR
Label: FB2-2 - i78
Type: Beam

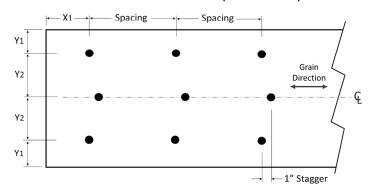
2 Ply Member

2.0 RigidLam DF LVL 1-3/4 x 18 Status:

Design
Passed

PLY TO PLY CONNECTION

FASTENER INSTALLATION – 3 ROWS (FROM ONE FACE)



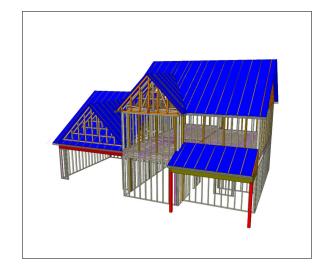


Carter Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450



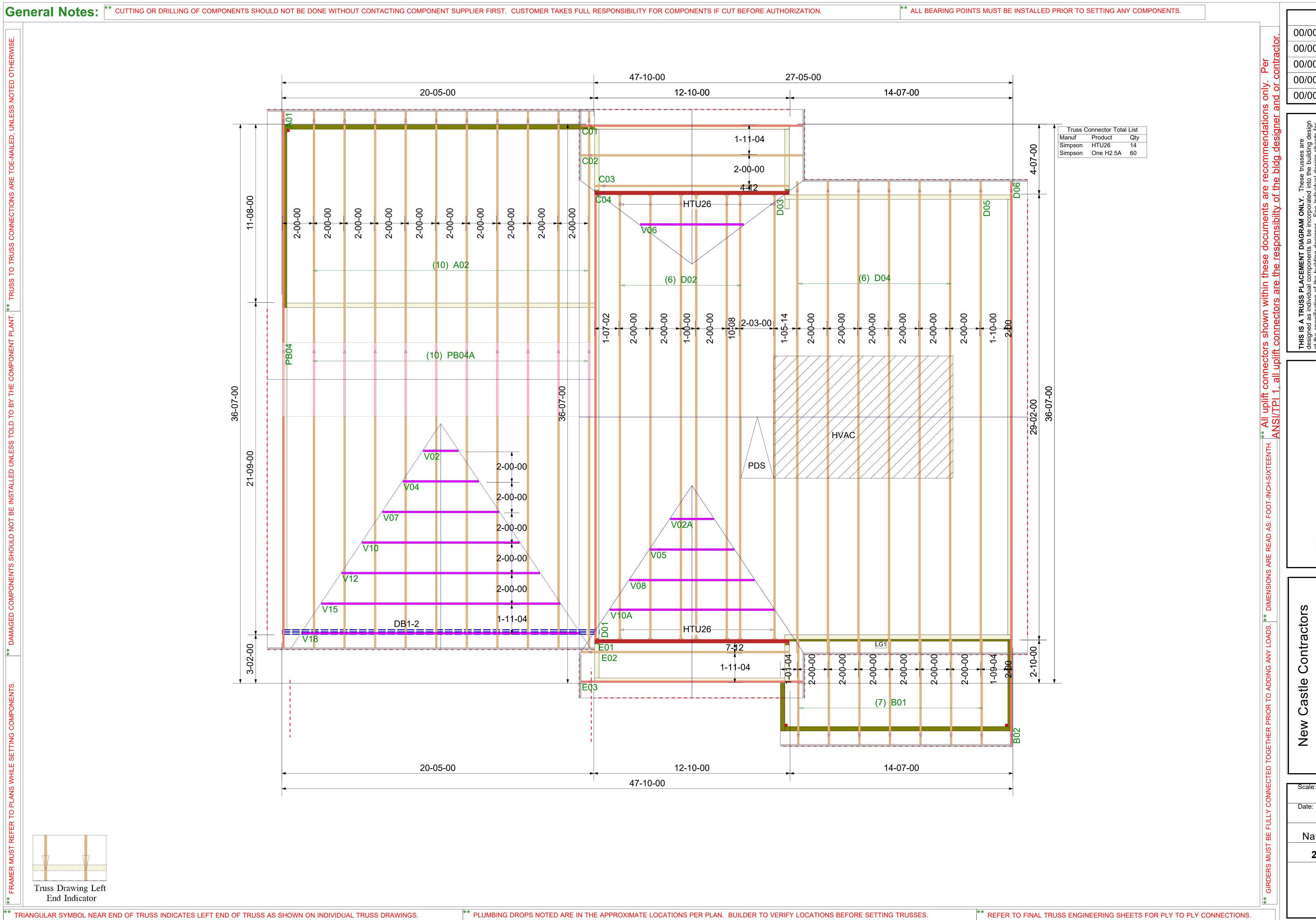
Model: 298 Dove - Almirante



THE PLACEMENT PLAN NOTES:

- 1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.
- 2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.
- 3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.
- 4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.
- 5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.
- 6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.
- 7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.
- 8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.
- 9. All uplift connectors shown within these documents are recommendations only. Per ANSI/TPI 1, all uplift connectors are the responsibility of the building designer and or contractor.

Approved By:	Date:
--------------	-------



Truss Drawing Left End Indicator

Revisions Name

00/00/00 Name

00/00/00 00/00/00 Name

Name

Almirante ACEMENT Dove 298

ROOF

4/8/2025

Designer: Nate Donaldson Project Number: **25040007-B** Sheet Number:



Trenco 818 Soundside Rd Edenton, NC 27932

Re: 25040007-A

298 Dove-Roof-Almirante

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I72617022 thru I72617052

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

North Carolina COA: C-0844



April 10,2025

Gilbert, Eric

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

Job Truss Truss Type Qty Ply 298 Dove-Roof-Almirante 172617022 25040007-A A01 Piggyback Base Supported Gable Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:47 ID:mfGPxtzAlp6JfgV?soo5frzHsGN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

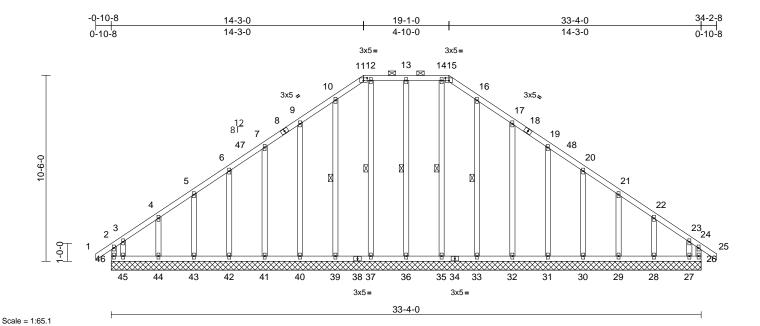


Plate Offsets (X, Y): [11:0-2-8,0-1-13], [15:0-2-8,0-1-13]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.01	26	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 259 lb	FT = 20%

Max Grav 26=254 (LC 15), 27=224 (LC 13),

46=353 (LC 11)

10-11=-150/277, 11-12=-129/253,

12-13=-129/253, 13-14=-129/253,

14-15=-129/253, 15-16=-150/277,

16-17=-134/244, 17-19=-108/185,

Tension

24-26=-158/93

(lb) - Maximum Compression/Maximum

2-46=-217/164, 1-2=0/33, 2-3=-247/220,

3-4=-162/159, 4-5=-141/137, 5-6=-125/133,

6-7=-119/155, 7-9=-108/186, 9-10=-134/244,

19-20=-84/133, 20-21=-70/90, 21-22=-84/77,

22-23=-111/96, 23-24=-195/135, 24-25=0/33,

28=167 (LC 53), 29=163 (LC 26),

30=188 (LC 53), 31=221 (LC 41),

32=219 (LC 41), 33=218 (LC 41),

35=208 (LC 22), 36=232 (LC 40),

37=208 (LC 21), 39=218 (LC 41),

40=219 (LC 41), 41=221 (LC 41),

42=187 (LC 51), 43=163 (LC 25),

44=165 (LC 51), 45=309 (LC 12),

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

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING TOP CHORD

LUMBER

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 11-15.

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

bracing.

WEBS 1 Row at midpt 13-36, 12-37, 10-39,

14-35, 16-33

REACTIONS (size) 26=33-4-0, 27=33-4-0, 28=33-4-0, 29=33-4-0, 30=33-4-0, 31=33-4-0,

32=33-4-0, 33=33-4-0, 35=33-4-0, 36=33-4-0, 37=33-4-0, 39=33-4-0,

40=33-4-0, 41=33-4-0, 42=33-4-0, 43=33-4-0, 44=33-4-0, 45=33-4-0,

46=33-4-0

Max Horiz 46=-256 (LC 12)

Max Uplift 26=-165 (LC 13), 27=-237 (LC 15), 28=-53 (LC 15), 29=-57 (LC 15), 30=-56 (LC 15), 31=-55 (LC 15),

32=-66 (LC 15), 33=-27 (LC 15), 36=-40 (LC 10), 39=-31 (LC 14), 40=-64 (LC 14), 41=-55 (LC 14),

42=-56 (LC 14), 43=-57 (LC 14), 44=-52 (LC 14), 45=-281 (LC 14), 46=-283 (LC 12)

BOT CHORD 45-46=-107/134, 44-45=-107/134,

FORCES

TOP CHORD

43-44=-107/134, 42-43=-107/134, 41-42=-107/134, 40-41=-107/134, 39-40=-107/134, 37-39=-107/134, 36-37=-107/134, 35-36=-107/134, 33-35=-107/134, 32-33=-107/134, 31-32=-107/134, 30-31=-107/134,

29-30=-107/134, 28-29=-107/134, 27-28=-107/134, 26-27=-107/134

WEBS 13-36=-193/68, 12-37=-169/28,

10-39=-179/54, 9-40=-191/88, 7-41=-188/78, 6-42=-163/80, 5-43=-138/79, 4-44=-144/82, 3-45=-149/164, 14-35=-169/6,

16-33=-179/50. 17-32=-191/89 19-31=-188/78, 20-30=-163/80,

21-29=-138/79, 22-28=-144/82, 23-27=-110/144

NOTES

- Unbalanced roof live loads have been considered for 1) this design
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-8-0, Exterior(2N) 2-8-0 to 10-8-0, Corner(3R) 10-8-0 to 22-8-0, Exterior(2N) 22-8-0 to 30-8-0, Corner(3E) 30-8-0 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip



April 10,2025

Continued on page 2

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	A01	Piggyback Base Supported Gable	1	1	I72617 Job Reference (optional)	7022

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:47 ID:mfGPxtzAlp6JfgV?soo5frzHsGN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 46, 165 lb uplift at joint 26, 40 lb uplift at joint 36, 31 lb uplift at joint 39, 64 lb uplift at joint 40, 55 lb uplift at joint 41, 56 lb uplift at joint 42, 57 lb uplift at joint 43, 52 lb uplift at joint 44, 281 lb uplift at joint 45, 27 lb uplift at joint 33, 66 lb uplift at joint 32, 55 lb uplift at joint 31, 56 Ib uplift at joint 30, 57 lb uplift at joint 29, 53 lb uplift at joint 28 and 237 lb uplift at joint 27.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	A02	Piggyback Base	10	1	Job Reference (optional)	172617023

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:LL6itg8yS6sKLqZhhk2NEozHsG9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

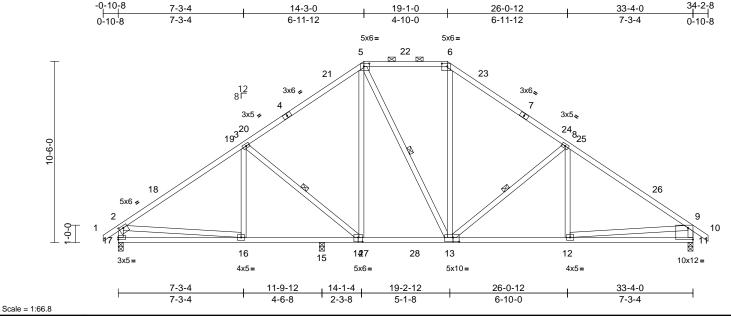


Plate Offsets (X, Y): [2:0-3-0,0-1-8], [5:0-3-12,0-2-0], [6:0-3-12,0-2-0], [11:Edge,0-8-2], [13:0-4-4,0-3-0], [14:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.12	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.21	16-17	>663	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 220 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5,6-7:2x4 SP No.1

BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* 13-5:2x4 SP No.2

BRACING Structural wood sheathing directly applied,

TOP CHORD

except end verticals, and 2-0-0 oc purlins

(4-11-4 max.): 5-6.

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

WFRS

1 Row at midpt 3-14, 5-13, 8-13

REACTIONS 11=0-3-8. 15=0-3-8. 17=0-3-8 (size) Max Horiz 17=-264 (LC 12)

Max Uplift 11=-145 (LC 15), 17=-140 (LC 14) 11=1523 (LC 53), 15=303 (LC 51),

17=1431 (LC 51)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-2002/179, 3-5=-1632/218,

5-6=-1314/238, 6-8=-1724/218,

8-9=-2168/187, 9-10=0/34, 2-17=-1426/178,

9-11=-1538/182

16-17=-261/589, 15-16=-172/1589,

12-15=-172/1727, 11-12=-124/421 **WEBS** 3-16=-66/157, 3-14=-572/207, 5-14=-65/335,

5-13=-97/300, 6-13=-48/510, 8-13=-640/207,

8-12=0/215, 2-16=-1/1163, 9-12=0/1341

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-5-8, Interior (1) 2-5-8 to 9-6-7, Exterior(2R) 9-6-7 to 23-9-9, Interior (1) 23-9-9 to 30-10-8, Exterior(2E) 30-10-8 to 34-2-8 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17 and 11. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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

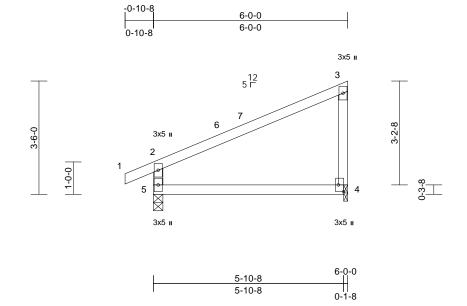
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	B01	Monopitch	7	1	Job Reference (optional)	172617024

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:a495mkFbKt?2wClQj7iU5hzHsG0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.6

Plate Offsets (X, Y): [4:Edge,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.04	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.08	4-5	>826	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 4=0-1-8, 5=0-3-8 Max Horiz 5=127 (LC 11)

Max Uplift 4=-49 (LC 14), 5=-43 (LC 14)

Max Grav 4=315 (LC 21), 5=388 (LC 21) FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/24, 2-3=-171/53, 3-4=-237/136, TOP CHORD

2-5=-352/203 BOT CHORD 4-5=-34/91

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-10-4, Exterior(2E) 2-10-4 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



April 10,2025

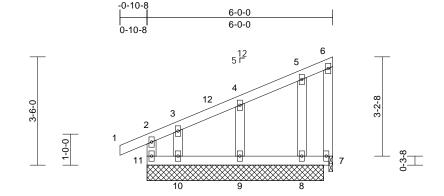
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

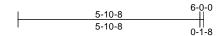
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	B02	Monopitch Supported Gable	1	1	Job Reference (optional)	172617025

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:49 ID:iaR0VBPIGteC_CFwzMRX7QzHsFp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:37.2

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	0.00	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

> 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

BOT CHORD bracing.

REACTIONS (size)

7=5-8-8, 8=5-8-8, 9=5-8-8, 10=5-8-8, 11=5-8-8 Max Horiz 11=124 (LC 13)

Max Uplift

7=-20 (LC 13), 8=-24 (LC 14), 9=-36 (LC 14), 10=-98 (LC 11)

7=19 (LC 21), 8=173 (LC 21) Max Grav

9=237 (LC 21), 10=136 (LC 21),

11=147 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-11=-112/99, 1-2=0/23, 2-3=-138/145,

3-4=-71/105, 4-5=-59/82, 5-6=-42/61,

6-7=-18/19

BOT CHORD 10-11=-41/67, 9-10=-41/67, 8-9=-41/67,

7-8=-41/67

WFBS 4-9=-195/181, 3-10=-142/164, 5-8=-141/106

NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 2-10-4, Corner(3E) 2-10-4 to 5-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 2) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

LOAD CASE(S) Standard



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

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



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	C01	Common Supported Gable	1	1	Job Reference (optional)	172617026

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:IGHJRzaXzAPDfMJcolhphNzHsFb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.08

0.04

0.05

in

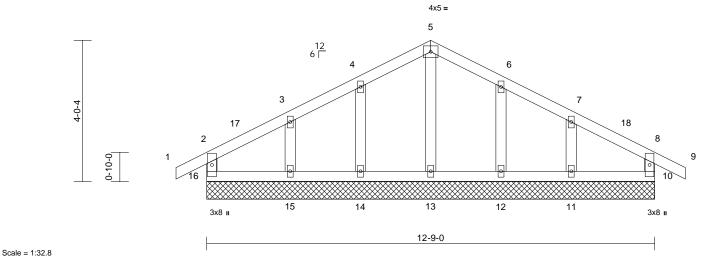
n/a

n/a

0.00

(loc)

10



BCLL BCDL LUMBER

Loading

TCLL (roof)

Snow (Pf)

TCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

20.0

20.0

10.0

0.0

10.0

6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

10=12-9-0, 11=12-9-0, 12=12-9-0, REACTIONS (size)

13=12-9-0, 14=12-9-0, 15=12-9-0,

Spacing

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1-11-4

1.15

1 15

YES

IRC2021/TPI2014

16=12-9-0 Max Horiz 16=-60 (LC 12)

Max Uplift 10=-23 (LC 15), 11=-56 (LC 15),

12=-41 (LC 15), 14=-41 (LC 14), 15=-59 (LC 14), 16=-24 (LC 15)

Max Grav 10=161 (LC 22), 11=233 (LC 22),

12=235 (LC 22), 13=144 (LC 22), 14=235 (LC 21), 15=233 (LC 21),

16=161 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-16=-142/124, 1-2=0/27, 2-3=-47/47,

3-4=-50/108, 4-5=-65/167, 5-6=-65/167, 6-7=-50/108, 7-8=-44/42, 8-9=0/27,

8-10=-142/120

BOT CHORD 15-16=-19/58, 14-15=-19/58, 13-14=-19/58, 12-13=-19/58, 11-12=-19/58, 10-11=-19/58

WEBS 5-13=-104/0, 4-14=-198/110, 3-15=-188/120,

6-12=-198/109, 7-11=-188/125

NOTES

TOP CHORD

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

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-4-8, Exterior(2N) 2-4-8 to 3-4-8, Corner(3R) 3-4-8 to 9-4-8, Exterior(2N) 9-4-8 to 10-4-8, Corner(3E) 10-4-8 to 13-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI

TC

BC

WB

Matrix-MR

- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 16, 23 lb uplift at joint 10, 41 lb uplift at joint 14, 59 lb uplift at joint 15, 41 lb uplift at joint 12 and 56 lb uplift at joint 11.

LOAD CASE(S) Standard

I/defI

n/a 999

n/a 999

n/a n/a

L/d

PLATES

Weight: 61 lb

MT20

GRIP

244/190

FT = 20%



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

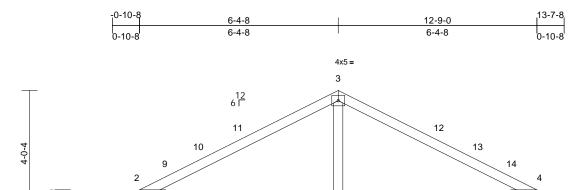
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	C02	Common	1	1	Job Reference (optional)	172617027

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:bdCyvNfwKKHD?QMyiGJSTszHsFU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





7

4x8 =

Plate Offsets (X, Y): [6:Edge,0-5-13], [8:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.06	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 67 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 8-2,6-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-3-8, 8=0-3-8

Max Horiz 8=-62 (LC 12)

Max Uplift 6=-66 (LC 15), 8=-66 (LC 14)

Max Grav 6=652 (LC 22), 8=652 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/27, 2-3=-672/207, 3-4=-672/207,

TOP CHORD 4-5=0/27, 2-8=-598/249, 4-6=-598/247

BOT CHORD 7-8=-173/545, 6-7=-165/545

WEBS 3-7=0/250, 2-7=-65/296, 4-7=-65/296

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-4-8, Exterior(2R) 3-4-8 to 9-4-8, Interior (1) 9-4-8 to 10-7-8, Exterior(2E) 10-7-8 to 13-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard

8x10 =



8x10 =

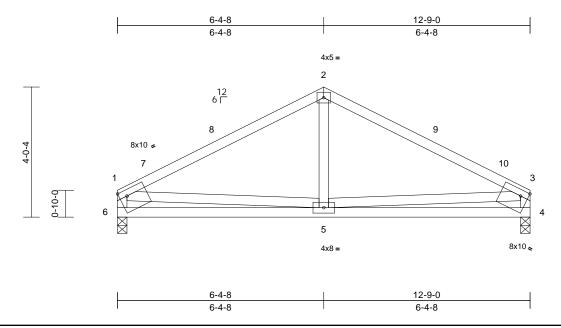
April 10,2025



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	C03	Common	1	1	Job Reference (optional)	172617028

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:49 ID:M9h_a6lxRnl5yfzVAySKoYzHsFM-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.6

Plate Offsets (X, Y): [1:Edge,0-2-4], [4:Edge,0-2-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.03	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 64 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. **BOT CHORD**

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

REACTIONS (size) 4=0-3-8, 6=0-3-8

Max Horiz 6=-57 (LC 10)

Max Uplift 4=-46 (LC 15), 6=-46 (LC 14) Max Grav 4=590 (LC 21), 6=590 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-675/220, 2-3=-675/220, 1-6=-534/203,

3-4=-534/201

5-6=-114/381, 4-5=-122/381

BOT CHORD

WEBS 2-5=0/243, 1-5=0/350, 3-5=-1/350

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior(2R) 3-1-12 to 9-7-4, Exterior(2E) 9-7-4 to 12-7-4 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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

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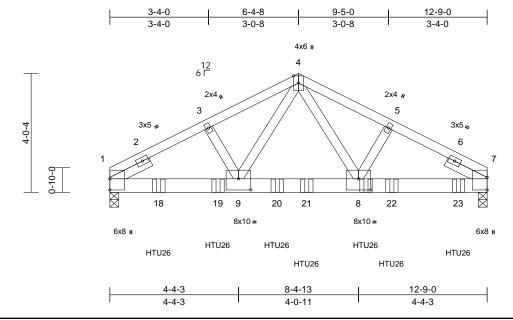


Ply Job Truss Truss Type Qty 298 Dove-Roof-Almirante 172617029 25040007-A C04 Common Girder 2 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332,

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:Q25fkExLvOBzFzcNYbErvizHsF7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:38.9

Plate Offsets (X, Y): [8:0-5-0,0-4-8], [9:0-5-0,0-4-8]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.09	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.16	8-9	>969	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 146 lb	FT = 20%

LUMBER

BRACING

2x4 SP No.2 TOP CHORD 2x6 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 -- 1-6-0, Right 2x4 SP No.3

TOP CHORD Structural wood sheathing directly applied or

3-8-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=0-3-8, 7=0-3-8

Max Horiz 1=-49 (LC 38)

Max Uplift 1=-390 (LC 12), 7=-435 (LC 13) 1=4689 (LC 21), 7=5207 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-6832/583, 3-4=-6790/597,

4-5=-7089/623, 5-7=-7130/608

BOT CHORD 1-9=-523/6004, 8-9=-357/4606, 7-8=-496/6242

WEBS 4-8=-322/3643, 5-8=-44/313, 4-9=-276/3094,

3-9=-43/304

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc. 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.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 7. This connection is for uplift only and does not consider lateral forces.
- 10) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-3-0 oc max. starting at 1-7-14 from the left end to 11-9-6 to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-58, 4-7=-58, 10-14=-19

Concentrated Loads (lb)

Vert: 8=-1106 (F), 18=-1106 (F), 19=-1106 (F), 20=-1106 (F), 21=-1106 (F), 22=-1106 (F), 23=-1106



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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D01	Common Supported Gable	1	1	Job Reference (optional)	172617030

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID:biJfAdUaJDra9tY1hYXPDCzHsEQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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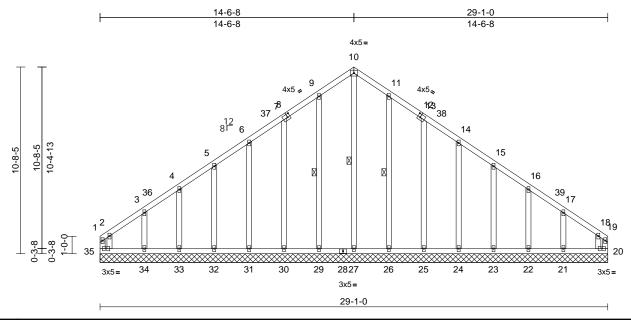


Plate Offsets (X, Y): [7:0-1-12,0-2-4], [12:0-1-12,0-2-4]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.01	20	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 213 lb	FT = 20%

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2

WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3 *Except* 27-10:2x4 SP No.2

BRACING

TOP CHORD **BOT CHORD**

LUMBER

Scale = 1:66

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

WEBS 1 Row at midpt

10-27, 9-29, 11-26 REACTIONS (size) 20=29-1-0, 21=29-1-0, 22=29-1-0, 23=29-1-0, 24=29-1-0, 25=29-1-0,

26=29-1-0, 27=29-1-0, 29=29-1-0, 30=29-1-0, 31=29-1-0, 32=29-1-0,

33=29-1-0, 34=29-1-0, 35=29-1-0

Max Horiz 35=-244 (LC 10)

Max Uplift 20=-51 (LC 11), 21=-131 (LC 15), 22=-34 (LC 15), 23=-62 (LC 15),

24=-54 (LC 15), 25=-62 (LC 15), 26=-46 (LC 15), 29=-47 (LC 14), 30=-62 (LC 14), 31=-54 (LC 14),

32=-62 (LC 14), 33=-30 (LC 14), 34=-142 (LC 14), 35=-94 (LC 10) Max Grav 20=159 (LC 24), 21=234 (LC 30),

22=148 (LC 1), 23=168 (LC 25), 24=162 (LC 25), 25=216 (LC 21), 26=249 (LC 21), 27=256 (LC 15), 29=249 (LC 20), 30=216 (LC 20),

31=162 (LC 29), 32=170 (LC 24), 33=148 (LC 1), 34=251 (LC 29), 35=191 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-35=-113/109, 1-2=-27/14, 2-3=-192/164,

3-4=-147/123, 4-5=-146/135, 5-6=-133/168, 6-7=-139/200, 7-9=-164/255, 9-10=-191/302, 10-11=-191/302, 11-13=-164/255,

13-14=-139/199, 14-15=-116/146, 15-16=-110/111, 16-17=-118/79,

17-18=-141/110, 18-19=-24/24, 19-20=-88/84

BOT CHORD 34-35=-96/124, 33-34=-96/124, 32-33=-96/124, 31-32=-96/124

30-31=-96/124, 29-30=-96/124, 27-29=-96/124, 26-27=-96/124, 25-26=-96/124, 24-25=-96/124, 23-24=-96/124, 22-23=-96/124,

21-22=-96/124, 20-21=-96/124 **WEBS** 10-27=-273/119, 9-29=-210/71

7-30=-177/85, 6-31=-138/78, 5-32=-141/84, 4-33=-129/64, 3-34=-183/145, 2-35=-252/202, 11-26=-210/69

13-25=-177/85, 14-24=-138/78, 15-23=-141/83, 16-22=-131/62, 17-21=-171/137, 18-20=-184/134

NOTES

Unbalanced roof live loads have been considered for this design.

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-1-12 to 3-1-12. Exterior(2N) 3-1-12 to 11-6-8, Corner(3R) 11-6-8 to 17-6-8, Exterior (2N) 17-6-8 to 25-11-4, Corner(3E) 25-11-4 to 28-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 10) 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



Continued on page 2

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

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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D01	Common Supported Gable	1	1	Job Reference (optional)	617030

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:49 ID: biJfAdUaJDra9tY1hYXPDCzHsEQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

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12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 35, 51 lb uplift at joint 20, 47 lb uplift at joint 29, 62 lb uplift at joint 30, 54 lb uplift at joint 31, 62 lb uplift at joint 32, 30 lb uplift at joint 33, 142 lb uplift at joint 34, 46 lb uplift at joint 26, 62 lb uplift at joint 25, 54 lb uplift at joint 26, 62 lb uplift at joint 25, 24 lb uplift at joint 26, 28 lb uplift at joint 26, 28 lb uplift at joint 27, 20 and 131 lb uplift at joint 26, 26 lb uplift at joint 27, 20 and 131 lb uplift at joint 26, 20 24, 62 lb uplift at joint 23, 34 lb uplift at joint 22 and 131 lb uplift at joint 21.

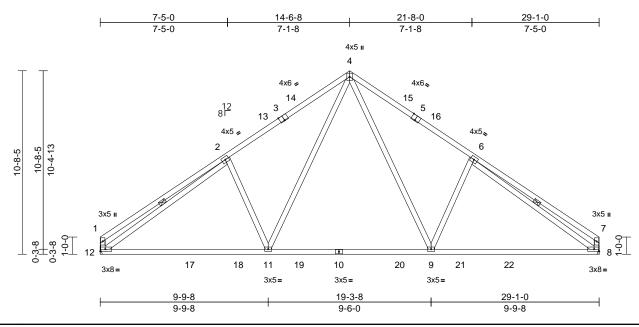
LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D02	Common	6	1	Job Reference (optional)	172617031

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:50 ID:bukNTBsaKYQpX29DCL7RfRzHsFD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:67.2

Plate Offsets (X, Y): [3:0-3-0,Edge], [5:0-3-0,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.21	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.38	8-9	>898	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 174 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 9-4,11-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 2-12, 6-8

REACTIONS (size)

8= Mechanical, 12= Mechanical

Max Horiz 12=244 (LC 11)

Max Uplift 8=-93 (LC 15), 12=-93 (LC 14)

Max Grav 8=1314 (LC 25), 12=1314 (LC 24)

(lb) - Maximum Compression/Maximum FORCES

Tension TOP CHORD

1-2=-636/144, 2-4=-1830/250, 4-6=-1829/251, 6-7=-618/144,

1-12=-505/138, 7-8=-495/138

BOT CHORD 11-12=-168/1494, 9-11=0/996, 8-9=-44/1492 WEBS 4-9=-148/824, 6-9=-380/277, 4-11=-148/826,

2-11=-380/277, 2-12=-1330/77, 6-8=-1348/63

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-6-8, Exterior(2R) 11-6-8 to 17-6-8, Interior (1) 17-6-8 to 25-11-4, Exterior(2E) 25-11-4 to 28-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 12 and 93 lb uplift at joint 8.

LOAD CASE(S) Standard



April 10,2025

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

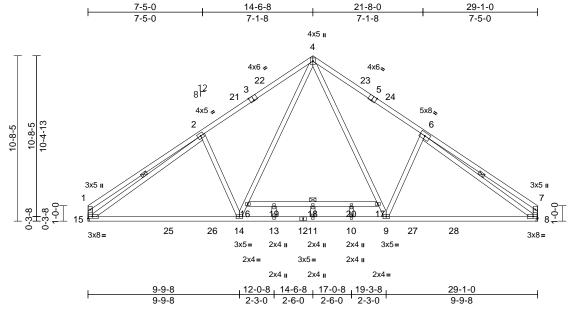
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D03	Common	1	1	Job Reference (optional)	172617032

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:50 ID:34ImhWtC5sYg9BkQm2egCfzHsFC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:74.5 Plate Offsets (X, Y): [3:0-3-0,Edge], [5:0-3-0,Edge]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.28	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.49	8-9	>708	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 189 lb	FT = 20%

LUMBER

2x4 SP No.1 TOP CHORD

BOT CHORD 2x4 SP No.1 *Except* 12-8:2x4 SP No.2 **WEBS** 2x4 SP No.3 *Except* 9-4,14-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

1-4-12 oc bracing: 8-9

WEBS 1 Row at midpt 2-15, 16-17, 6-8

REACTIONS 8= Mechanical, 15= Mechanical (size) Max Horiz 15=-244 (LC 10)

Max Uplift 8=-93 (LC 15), 15=-93 (LC 14)

Max Grav 8=1269 (LC 25), 15=1271 (LC 29)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-649/144, 2-4=-1753/250,

4-6=-1751/251, 6-7=-627/143, 1-15=-512/138, 7-8=-500/137

14-15=-168/1432, 13-14=0/974, 11-13=0/974,

BOT CHORD 10-11=0/974, 9-10=0/974, 8-9=-44/1430

WEBS 4-17=-149/777, 9-17=-141/786,

6-9=-379/277, 14-16=-142/789,

4-16=-148/781, 2-14=-380/277, 2-15=-1238/76, 16-19=-26/7, 18-19=-26/7,

18-20=-26/7, 17-20=-26/7, 6-8=-1258/65,

11-18=0/103, 13-19=-80/0, 10-20=-81/0

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 11-6-8. Exterior(2R) 11-6-8 to 17-6-8. Interior (1) 17-6-8 to 25-11-4, Exterior(2E) 25-11-4 to 28-11-4 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 15 and 93 lb uplift at joint 8.

LOAD CASE(S) Standard



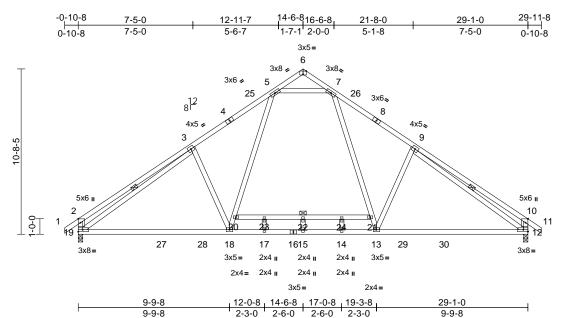
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D04	Common	6	1	Job Reference (optional)	172617033

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:50 ID:HoQAe6VOR1L68Ig4K301MwzHsAW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:74.5

Plate Offsets (X, Y): [2:0-3-0,Edge], [6:0-2-8,Edge], [10:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.37	18-19	>941	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.55	18-19	>632	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 193 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 1 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 3-19, 9-12, 20-21

REACTIONS (size) 12=0-3-8, 19=0-3-8 Max Horiz 19=-268 (LC 12)

Max Uplift 12=-116 (LC 15), 19=-116 (LC 14)

Max Grav 12=1367 (LC 26), 19=1367 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/34, 2-3=-859/256, 3-5=-1774/232,

5-6=-132/72, 6-7=-132/72, 7-9=-1774/233, 9-10=-841/256, 10-11=0/34, 2-19=-698/231,

10-12=-689/231

BOT CHORD 18-19=-152/1458, 17-18=-4/1134,

15-17=-4/1134, 14-15=-4/1134,

13-14=-4/1134, 12-13=-17/1457

7-21=-122/695, 13-21=-112/709, 9-13=-351/275, 18-20=-113/711,

5-20=-122/697, 3-18=-351/275,

3-19=-1065/5, 9-12=-1083/5, 5-7=-1220/243,

20-23=-18/5, 22-23=-18/5, 22-24=-18/5,

21-24=-18/5, 15-22=0/100, 17-23=-76/0,

14-24=-76/0

NOTES

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-6-8, Exterior(2R) 11-6-8 to 17-6-8, Interior (1) 17-6-8 to 26-11-8, Exterior(2E) 26-11-8 to 29-11-8 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 19 and 12. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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

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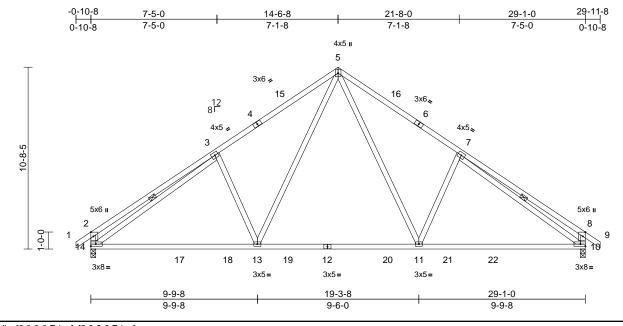
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



,	Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
2	25040007-A	D05	Common	1	1	Job Reference (optional)	172617034

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:50 ID:cxjo3tT3kIDL2yu9B0wUnazHs6h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:67.8

Plate Offsets (X, Y): [2:0-3-0,Edge], [8:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.21	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.40	13-14	>868	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.1 *Except* 1-4,6-9:2x4 SP No.2

BOT CHORD 2x4 SP No.1

WEBS 2x4 SP No.3 *Except* 11-5,13-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals. BOT CHORD

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

WEBS

1 Row at midpt 3-14, 7-10

REACTIONS (size)

FORCES

10=0-3-8, 14=0-3-8 Max Horiz 14=268 (LC 13)

Max Uplift 10=-116 (LC 15), 14=-116 (LC 14) Max Grav 10=1412 (LC 26), 14=1413 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-794/230, 3-5=-1878/255,

5-7=-1876/256, 7-8=-774/229, 8-9=0/34,

2-14=-652/213, 8-10=-640/213 13-14=-160/1538, 11-13=0/1034,

BOT CHORD 10-11=-21/1536

WEBS 5-11=-149/838, 7-11=-384/281,

5-13=-149/842, 3-13=-384/281,

3-14=-1225/22, 7-10=-1244/22

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-6-8, Exterior(2R) 11-6-8 to 17-6-8, Interior (1) 17-6-8 to 26-11-8, Exterior(2E) 26-11-8 to 29-11-8 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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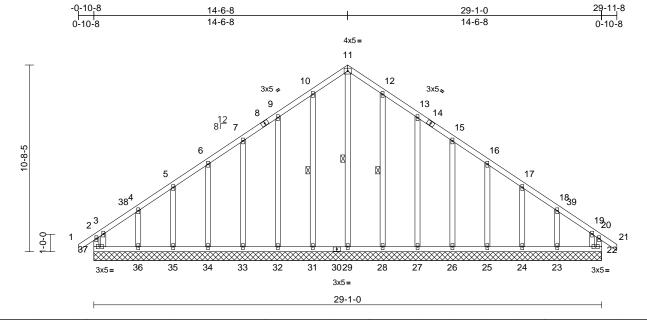
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D06	Common Supported Gable	1	1	Job Reference (optional)	172617035

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:50 ID:cCFDdhgkkXMwaZhQh4jT_AzHs6Q-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	22	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 216 lb	FT = 20%

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3 *Except* 29-11:2x4 SP No.2 **BRACING** TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. WERS 1 Row at midpt 11-29, 10-31, 12-28 **REACTIONS** (size) 22=29-1-0, 23=29-1-0, 24=29-1-0, 25=29-1-0, 26=29-1-0, 27=29-1-0, 28=29-1-0. 29=29-1-0. 31=29-1-0.

32=29-1-0, 33=29-1-0, 34=29-1-0, 35=29-1-0, 36=29-1-0, 37=29-1-0 Max Horiz 37=260 (LC 13) Max Uplift 22=-50 (LC 11), 23=-128 (LC 15), 24=-35 (LC 15), 25=-61 (LC 15), 26=-54 (LC 15), 27=-62 (LC 15), 28=-46 (LC 15), 31=-47 (LC 14), 32=-62 (LC 14), 33=-54 (LC 14), 34=-62 (LC 14), 35=-31 (LC 14), 36=-140 (LC 14), 37=-93 (LC 10) Max Grav 22=193 (LC 25), 23=223 (LC 26), 24=151 (LC 22), 25=168 (LC 31), 26=162 (LC 31), 27=219 (LC 22), 28=249 (LC 22), 29=261 (LC 15), 31=249 (LC 21), 32=219 (LC 21),

33=162 (LC 25), 34=169 (LC 25), 35=151 (LC 21), 36=240 (LC 25), 37=227 (LC 31) FORCES (Ib) - Maximum Compression/Maximum TOP CHORD 2-37=-161/133, 1-2=0/33, 2-3=-27/29, 3-4=-188/171, 4-5=-142/128, 5-6=-135/141, 6-7=-117/173, 7-9=-124/205, 9-10=-157/259, 10-11=-184/306, 11-12=-184/306, 12-13=-157/259, 13-15=-124/202, 15-16=-99/150, 16-17=-92/114, 17-18=-94/82, 18-19=-133/113, 19-20=-27/62, 20-21=0/33, 20-22=-141/152 BOT CHORD 36-37=-105/131, 35-36=-105/131,

34-35=-105/131, 33-34=-105/131, 32-33=-105/131, 31-32=-105/131, 29-31=-105/131, 28-29=-105/131, 27-28=-105/131, 26-27=-105/131, 25-26=-105/131, 24-25=-105/131, 23-24=-105/131, 22-23=-105/131 11-29=-276/111, 10-31=-210/71, 9-32=-181/85, 7-33=-138/78, 6-34=-141/84,

5-35=-131/66, 4-36=-174/143, 3-37=-255/212, 12-28=-210/69, 13-27=-181/85, 15-26=-138/78, 16-25=-140/83, 17-24=-133/63, 18-23=-162/135, 19-22=-188/141

NOTES

WEBS

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-6-8, Corner(3R) 11-6-8 to 17-6-8, Exterior(2N) 17-6-8 to 26-11-8, Corner(3E) 26-11-8 to 29-11-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- f) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.



Continued on page 2

Scale = 1:66

LUMBER

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

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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	D06	Common Supported Gable	1	1	Job Reference (optional)	17035

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:50

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13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 37, 50 lb uplift at joint 22, 47 lb uplift at joint 31, 62 lb uplift at joint 32, 54 lb uplift at joint 33, 62 lb uplift at joint 34, 31 lb uplift at joint 35, 140 lb uplift at joint 36, 46 lb uplift at joint 28, 62 lb uplift at joint 27, 54 lb uplift at joint 26, 61 lb uplift at joint 25, 35 lb uplift at joint 24 and 128 lb uplift at joint 23. lb uplift at joint 23.

LOAD CASE(S) Standard

Job Truss Truss Type Qty Ply 298 Dove-Roof-Almirante 172617036 25040007-A E01 Common Girder 2 Job Reference (optional)

Carter Components (Sanford, NC), Sanford, NC - 27332

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:50 ID:8YIhZz4RzgWF2ejm6WpCp7zHs5v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

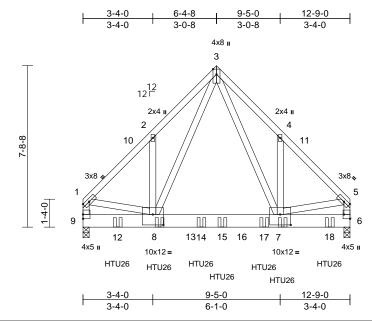


Plate Offsets (X, Y): [1:0-3-7,Edge], [5:0-3-7,Edge], [6:Edge,0-3-8], [7:0-6-0,0-6-0], [8:0-6-0,0-6-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.08	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 221 lb	FT = 20%

LUMBER

2x4 SP No 2 TOP CHORD BOT CHORD 2x8 SP 2400F 2 0F **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-7 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 6=0-3-8, 9=0-3-8

Max Horiz 9=174 (LC 11)

Max Uplift 6=-422 (LC 12), 9=-380 (LC 13) Max Grav 6=5264 (LC 21), 9=4777 (LC 22)

(lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-4826/417, 2-3=-4754/539, TOP CHORD 3-4=-4980/558, 4-5=-5056/436,

1-9=-4391/363, 5-6=-4603/380

BOT CHORD 8-9=-185/369, 7-8=-177/2121, 6-7=-49/242

WEBS 3-7=-446/3843, 4-7=-220/256,

3-8=-411/3419, 2-8=-226/253, 1-8=-224/3262, 5-7=-239/3430

NOTES

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 OC.

Bottom chords connected as follows: 2x8 - 2 rows

staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-7 2x4 - 1 row at 0-6-0 oc. Except

member 2-8 2x4 - 1 row at 0-6-0 oc. All loads are considered equally applied to all plies, CASE(S) section. Ply to ply connections have been

except if noted as front (F) or back (B) face in the LOAD provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- 10) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-3-0 oc max. starting at 1-7-14 from the left end to 11-9-6 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-58, 3-5=-58, 6-9=-19

Concentrated Loads (lb)

Vert: 7=-1106 (B), 8=-1106 (B), 12=-1106 (B), 14=-1106 (B), 15=-1106 (B), 17=-1106 (B), 18=-1107 (B)



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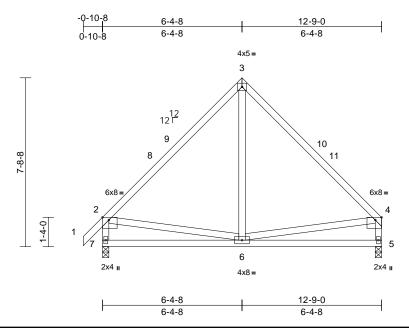
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	E02	Common	1	1	Job Reference (optional)	172617037

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:51 ID:V2cRIJYunfQjDdCGvC0MuLzHs5I-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:52.6

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 79 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-2,5-4:2x4 SP No.2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5=0-3-8, 7=0-3-8

Max Horiz 7=201 (LC 11)

Max Uplift 5=-38 (LC 14), 7=-41 (LC 14)

Max Grav 5=577 (LC 22), 7=642 (LC 21) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/43, 2-3=-555/151, 3-4=-543/140,

2-7=-586/181, 4-5=-521/133 **BOT CHORD** 6-7=-264/345, 5-6=-105/196

WEBS 3-6=0/250, 2-6=-133/282, 4-6=-81/199

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-4-8, Exterior(2R) 3-4-8 to 9-7-4, Exterior(2E) 9-7-4 to 12-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 5. This connection is for uplift only and does not consider lateral forces.

LOAD CASE(S) Standard



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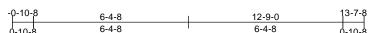
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

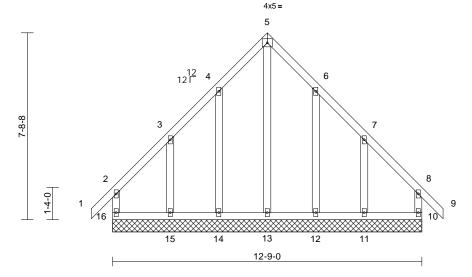
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	E03	Common Supported Gable	1	1	Job Reference (optional)	172617038

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:KCzi?MdfNVBsxYfQFT7m8czHs5C-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:47.5

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 88 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WFBS OTHERS 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (size)

10=12-9-0, 11=12-9-0, 12=12-9-0, 13=12-9-0, 14=12-9-0, 15=12-9-0,

16=12-9-0 Max Horiz 16=-202 (LC 12)

Max Uplift 10=-86 (LC 11), 11=-159 (LC 15),

12=-76 (LC 15), 14=-75 (LC 14), 15=-161 (LC 14), 16=-96 (LC 10)

Max Grav 10=195 (LC 30), 11=238 (LC 31), 12=272 (LC 22), 13=274 (LC 15),

14=272 (LC 21), 15=242 (LC 30),

16=203 (LC 31)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-16=-162/190, 1-2=0/42, 2-3=-133/132, TOP CHORD 3-4=-106/280, 4-5=-162/396, 5-6=-163/396.

6-7=-104/282, 7-8=-122/121, 8-9=0/42,

8-10=-155/179

BOT CHORD 15-16=-98/107, 14-15=-98/107,

13-14=-98/107, 12-13=-98/107, 11-12=-98/107, 10-11=-98/107

WEBS 5-13=-471/126, 4-14=-235/141,

3-15=-190/200, 6-12=-235/137,

7-11=-179/215

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-4-8, Exterior(2N) 2-4-8 to 3-4-8, Corner(3R) 3-4-8 to 9-4-8, Exterior(2N) 9-4-8 to 10-4-8, Corner(3E) 10-4-8 to 13-7-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 16, 86 lb uplift at joint 10, 75 lb uplift at joint 14, 161 lb uplift at joint 15, 76 lb uplift at joint 12 and 159 lb uplift at joint 11.

LOAD CASE(S) Standard



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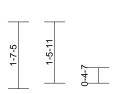


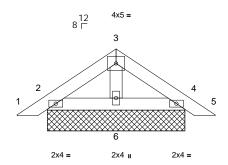
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	PB04	Piggyback	1	1	Job Reference (optional)	172617039

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:pG8f

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-0-8-12				
	1-7-14	3-3-12	4-0-8	
0-8-12	1-7-14	1-7-14	0-8-12	





Scale = 1:27.7

3-3-12	l
	7

Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=3-3-12, 4=3-3-12, 6=3-3-12

Max Horiz 2=32 (LC 13)

Max Uplift 2=-20 (LC 14), 4=-25 (LC 15), 6=-1

(LC 14)

2=135 (LC 21), 4=135 (LC 22), Max Grav

6=115 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-42/40, 3-4=-42/40, 4-5=0/23

2-6=-5/34, 4-6=-5/34 BOT CHORD

WFBS 3-6=-57/9

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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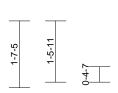


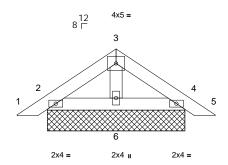
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	PB04A	Piggyback	10	1	Job Reference (optional)	172617040

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:xmQZFe639BUIUMr60cUgc9zHsGC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

	0-8-12			
		1-7-14	3-3-12	4-0-8
ſ	N-8-12	1-7-14	1-7-14	0-8-12





Scale = 1:27.7

1	3-3-12	
ſ		

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a		n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP									
BCDL	10.0										Weight: 15 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=3-3-12, 4=3-3-12, 6=3-3-12

Max Horiz 2=33 (LC 13)

Max Uplift 2=-21 (LC 14), 4=-25 (LC 15), 6=-1

(LC 14)

Max Grav 2=139 (LC 21), 4=139 (LC 22),

6=119 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-43/41, 3-4=-43/41, 4-5=0/23

2-6=-5/35, 4-6=-5/35 BOT CHORD

WFBS 3-6=-59/9

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) N/A
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



April 10,2025

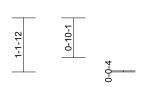
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V02	Valley	1	1	Job Reference (optional)	172617041

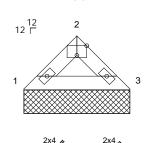
Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries. Inc. Thu Apr 10 17:12:58 ID:PFboh?SNpuCRYliRbgKAmSzHs2r-0CwK0JixkfF?oRCwAJadW?V26ygqAhfvp5BdT1zSDRK

Page: 1



3x5 =





Scale = 1:24.4

Plate Offsets (X, Y): [2:0-2-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-3-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 1=90/2-3-0, 3=90/2-3-0

Max Horiz 1=-22 (LC 10)

Max Uplift 1=-7 (LC 14), 3=-7 (LC 15) Max Grav 1=102 (LC 20), 3=102 (LC 21)

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

(lb) or less except when shown.

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 8) 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 7 lb uplift at joint 3.

LOAD CASE(S) Standard



April 10,2025

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

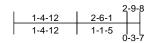
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent bucking of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

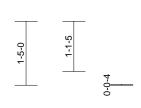


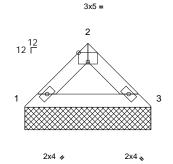
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V02A	Valley	1	1	Job Reference (optional)	172617042

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:51 ID:fVcd2VrKoxA5Ik?r4w4za0zHsFF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







2-9-8

Scale = 1:25.5

Plate Offsets (X, Y): [2:0-2-8,Edge]

Loading	(psf) 20.0	Spacing	2-0-0	CSI TC	0.06	DEFL Vert(LL)	in	(loc)	l/defl		PLATES MT20	GRIP
TCLL (roof)		Plate Grip DOL	1.15	1 -	0.06	- (/	n/a	-	n/a		IVI I ZU	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

2-9-8 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-9-8, 3=2-9-8 Max Horiz 1=-28 (LC 12)

Max Uplift 1=-8 (LC 14), 3=-8 (LC 15)

Max Grav 1=130 (LC 20), 3=130 (LC 21)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-151/70, 2-3=-151/70

BOT CHORD 1-3=-34/100

NOTES

FORCES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.

- 7) Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1 and 8 lb uplift at joint 3.

LOAD CASE(S) Standard



April 10,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPII Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

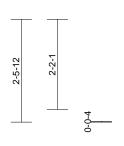


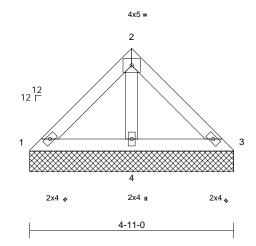
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V04	Valley	1	1	Job Reference (optional)	172617043

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:6BBZoPZfSyT0IITMBnWW9ZzHs2h-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	ļ		1							Weight: 19 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-11-0 oc purlins.

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

bracing.

REACTIONS (size) 1=4-11-0, 3=4-11-0, 4=4-11-0

Max Horiz 1=-53 (LC 10) Max Uplift 4=-45 (LC 14)

Max Grav 1=94 (LC 20), 3=94 (LC 21), 4=303

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-80/103, 2-3=-80/103

BOT CHORD 1-4=-83/107, 3-4=-83/107

WEBS 2-4=-216/114

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint

LOAD CASE(S) Standard



April 10,2025

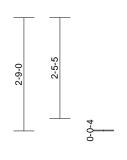


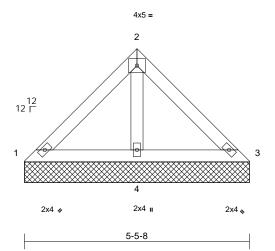
Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V05	Valley	1	1	Job Reference (optional)	172617044

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Page: 1







Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-8 oc purlins.

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

bracing.

REACTIONS (size) 1=5-5-8, 3=5-5-8, 4=5-5-8

Max Horiz 1=-60 (LC 10) Max Uplift 4=-56 (LC 14)

Max Grav 1=100 (LC 20), 3=100 (LC 21),

4=352 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-83/126, 2-3=-83/126

BOT CHORD

1-4=-99/123, 3-4=-99/123

WEBS 2-4=-261/139

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 5) Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint

LOAD CASE(S) Standard

minni

April 10,2025

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

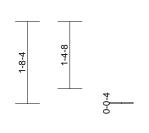
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

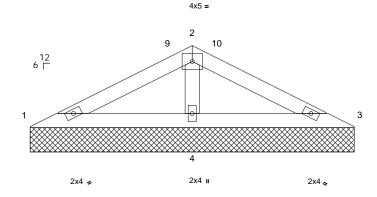


١	Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
	25040007-A	V06	Valley	1	1	Job Reference (optional)	172617045

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:51 ID:7iA?GrsyZElywua1edcC7EzHsFE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







6-8-0

Scale = 1:23.7

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	l									Weight: 21 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-8-0 oc purlins.

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

bracing.

REACTIONS (size) 1=6-8-0, 3=6-8-0, 4=6-8-0

Max Horiz 1=23 (LC 14)

Max Uplift 1=-10 (LC 14), 3=-15 (LC 15),

4=-31 (LC 14)

Max Grav 1=103 (LC 20), 3=103 (LC 21),

4=407 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-116/191, 2-3=-116/191 BOT CHORD

1-4=-167/116, 3-4=-167/116

WFBS 2-4=-292/157

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-8 to 3-0-8, Exterior(2R) 3-0-8 to 3-8-8, Exterior(2E) 3-8-8 to 6-8-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 15 lb uplift at joint 3 and 31 lb uplift at joint 4.

LOAD CASE(S) Standard



April 10,2025

Page: 1

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

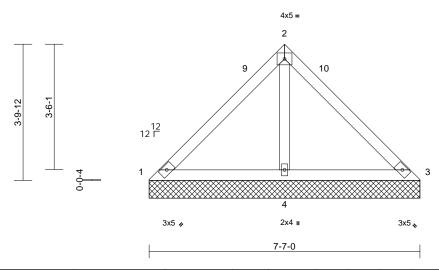
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V07	Valley	1	1	Job Reference (optional)	172617046

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:xKZr2TeP1oDATDwWX1cwPqzHs2b-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:32.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	3	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 31 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

7-7-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-7-0, 3=7-7-0, 4=7-7-0

Max Horiz 1=-85 (LC 12)

Max Uplift 1=-21 (LC 21), 3=-21 (LC 20), 4=-108 (LC 14)

1=88 (LC 20), 3=88 (LC 21), 4=570 Max Grav

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-113/237, 2-3=-113/237

1-4=-180/184, 3-4=-180/184 BOT CHORD

WFBS 2-4=-463/255

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 4-7-4, Exterior(2E) 4-7-4 to 7-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1, 21 lb uplift at joint 3 and 108 lb uplift at joint 4.

LOAD CASE(S) Standard



April 10,2025

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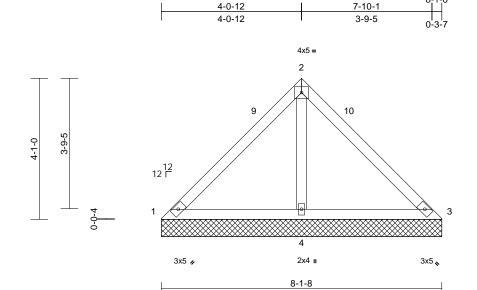
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V08	Valley	1	1	Job Reference (optional)	172617047

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:51 ID:7iA?GrsyZEIywua1edcC7EzHsFE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:33.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MP								
BCDL	10.0	1									Weight: 33 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

8-1-8 oc purlins.

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

bracing.

REACTIONS (size) 1=8-1-8, 3=8-1-8, 4=8-1-8

Max Horiz 1=91 (LC 11)

Max Uplift 1=-34 (LC 21), 3=-34 (LC 20),

4=-125 (LC 14)

1=87 (LC 20), 3=87 (LC 21), 4=637 Max Grav

(LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-132/272, 2-3=-132/272

1-4=-204/201, 3-4=-204/201 BOT CHORD

WFBS 2-4=-521/287

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 5-1-12, Exterior(2É) 5-1-12 to 8-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 34 lb uplift at joint 3 and 125 lb uplift at joint 4.

LOAD CASE(S) Standard



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

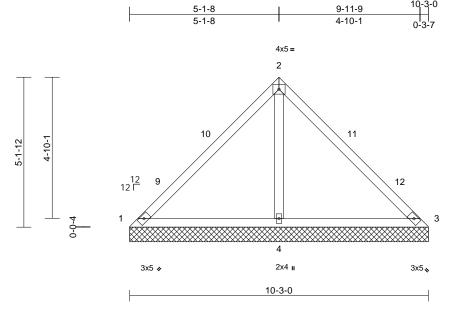
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V10	Valley	1	1	Job Reference (optional)	172617048

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:52 ID:HIMk6AiYsLsSa_pTKaC56uzHs2W-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:39.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.49	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 42 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=10-3-0, 3=10-3-0, 4=10-3-0

Max Horiz 1=-116 (LC 10)

Max Uplift 1=-54 (LC 21), 3=-54 (LC 20),

4=-163 (LC 14)

1=88 (LC 20), 3=88 (LC 21), 4=832 Max Grav

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-170/394, 2-3=-170/394

BOT CHORD 1-4=-246/216, 3-4=-246/216

WEBS 2-4=-709/356

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 7-3-4, Exterior(2E) 7-3-4 to 10-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 54 lb uplift at joint 3 and 163 lb uplift at joint 4.

LOAD CASE(S) Standard



April 10,2025

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

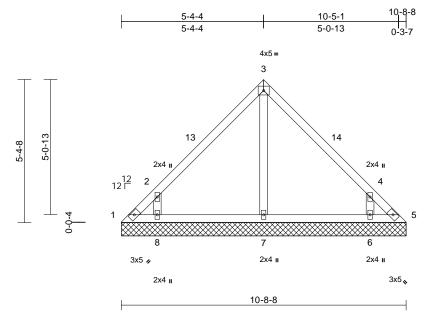
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V10A	Valley	1	1	I7 Job Reference (optional)	72617049

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:52 ID:7iA?GrsyZEIywua1edcC7EzHsFE-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.3

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=10-8-8, 5=10-8-8, 6=10-8-8, 7=10-8-8, 8=10-8-8

Max Horiz 1=-118 (LC 10) 1=-73 (LC 12), 5=-43 (LC 13), Max Uplift

6=-165 (LC 15), 8=-171 (LC 14)

1=102 (LC 14), 5=82 (LC 15), Max Grav

6=461 (LC 21), 7=225 (LC 20), 8=461 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-183/130, 2-3=-252/122, 3-4=-252/122,

4-5=-161/98 **BOT CHORD**

1-8=-50/87, 7-8=-33/83, 6-7=-33/83,

5-6=-57/92 WEBS

3-7=-139/0. 2-8=-483/333. 4-6=-483/333

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Exterior(2R) 3-0-4 to 7-8-12, Exterior(2E) 7-8-12 to 10-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 73 lb uplift at joint 1, 43 lb uplift at joint 5, 171 lb uplift at joint 8 and 165 lb uplift at joint 6.

LOAD CASE(S) Standard



April 10,2025

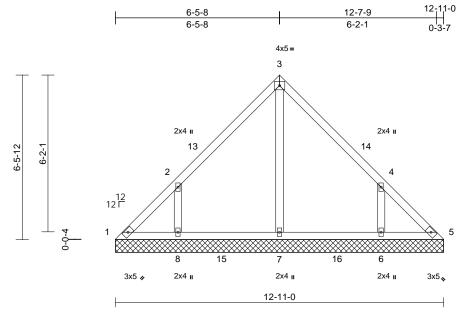
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V12	Valley	1	1	Job Reference (optional)	050

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:52 ID:xmQZFe639BUIUMr60cUgc9zHsGC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:45.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=12-11-0, 5=12-11-0, 6=12-11-0, 7=12-11-0, 8=12-11-0

Max Horiz 1=-147 (LC 12)

Max Uplift 1=-43 (LC 10), 5=-9 (LC 11),

6=-179 (LC 15), 8=-184 (LC 14)

Max Grav 1=130 (LC 25), 5=104 (LC 29),

6=448 (LC 21), 7=352 (LC 24),

8=448 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-151/131, 2-3=-239/135, 3-4=-239/135,

4-5=-129/89

1-8=-53/110, 7-8=-53/110, 6-7=-53/110,

5-6=-53/110 WEBS

3-7=-173/0, 2-8=-392/250, 4-6=-392/250

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-5-12, Exterior(2R) 3-5-12 to 9-5-12, Interior (1) 9-5-12 to 9-11-4, Exterior(2E) 9-11-4 to 12-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 9 lb uplift at joint 5, 184 lb uplift at joint 8 and 179 lb uplift at joint 6.

LOAD CASE(S) Standard



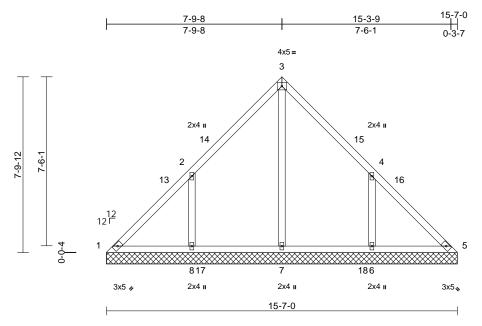
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Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V15	Valley	1	1	Job Reference (optional)	172617051

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries. Inc. Tue Apr 08 13:53:52 Page: 1



Scale = 1:51.2)

Loading	(psf)	Spacing	2-0-0	csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.26	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 75 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=15-7-0, 5=15-7-0, 6=15-7-0, 7=15-7-0, 8=15-7-0

Max Horiz 1=-179 (LC 12)

Max Uplift 1=-38 (LC 10), 6=-213 (LC 15),

8=-217 (LC 14)

Max Grav 1=151 (LC 25), 5=124 (LC 27),

6=498 (LC 6), 7=437 (LC 24),

8=498 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-174/200, 2-3=-186/150, 3-4=-186/125, 4-5=-152/160

BOT CHORD 1-8=-96/154, 7-8=-96/154, 6-7=-96/154, 5-6=-96/154

WEBS

3-7=-244/0, 2-8=-392/252, 4-6=-392/250

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-9-12, Exterior(2R) 4-9-12 to 10-9-12, Interior (1) 10-9-12 to 12-7-4, Exterior(2E) 12-7-4 to 15-7-4 zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 20.0psf
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 217 lb uplift at joint 8 and 213 lb uplift at joint 6.

LOAD CASE(S) Standard



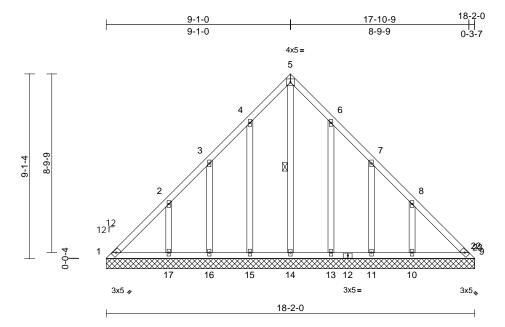
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



Job	Truss	Truss Type	Qty	Ply	298 Dove-Roof-Almirante	
25040007-A	V18	Valley	1	1	Job Reference (optional)	172617052

Run: 8.73 S Feb 19 2025 Print: 8.730 S Feb 19 2025 MiTek Industries, Inc. Tue Apr 08 13:53:52 ID:Pz_xS_6hwVcc5WPJZJ?v8NzHsGB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



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Loading	(psf)	Spacing	1-11-4	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.01	9	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WFBS 1 Row at midpt

REACTIONS (size)

1=18-2-0, 9=18-2-0, 10=18-2-0, 11=18-2-0, 13=18-2-0, 14=18-2-0, 15=18-2-0, 16=18-2-0, 17=18-2-0

Max Horiz 1=202 (LC 11)

Max Uplift 1=-49 (LC 12), 9=-14 (LC 13), 10=-111 (LC 15), 11=-94 (LC 15), 13=-94 (LC 15), 15=-97 (LC 14), 16=-90 (LC 14), 17=-119 (LC 14)

Max Grav 1=149 (LC 26), 9=117 (LC 27),

10=257 (LC 25), 11=170 (LC 21), 13=282 (LC 21), 14=209 (LC 27), 15=282 (LC 20), 16=169 (LC 20),

17=267 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-229/185, 2-3=-122/128, 3-4=-81/105,

4-5=-87/178, 5-6=-87/178, 6-7=-68/83,

7-8=-77/79, 8-9=-195/135 BOT CHORD 1-17=-98/197, 16-17=-98/197

15-16=-98/197, 14-15=-98/197

13-14=-98/197, 11-13=-98/197, 10-11=-98/197, 9-10=-98/197

WEBS 5-14=-184/33, 4-15=-238/130,

3-16=-149/128, 2-17=-202/173, 6-13=-238/130, 7-11=-149/128,

8-10=-201/172

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-4 to 3-1-4, Exterior(2N) 3-1-4 to 6-1-4, Corner(3R) 6-1-4 to 12-1-4, Exterior(2N) 12-1-4 to 14-10-4. Corner(3E) 14-10-4 to 17-10-4 zone: cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 14 lb uplift at joint 9, 97 lb uplift at joint 15, 90 lb uplift at joint 16, 119 lb uplift at joint 17, 94 lb uplift at joint 13, 94 lb uplift at joint 11 and 111 lb uplift at joint 10.

LOAD CASE(S) Standard



April 10,2025

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated and fully embed teeth Center plate on joint unless x, y 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 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/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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



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

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 wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- 19. 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.



Customer: Street 1: City:

Customer Ph.

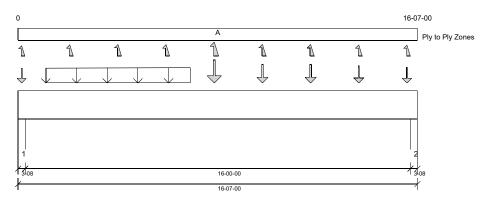
Job Name: **B**

Level: 1st FLOOR
Label: FB1-2 - i64
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4 x 14 Status:

Design
Passed

Illustration Not to Scale. Pitch: 0/12 Designed by Single Member Design Engine in MiTek® Structure Version Report Version: 2021.03.26 06/13/2024 14:48 8.7.3.303.Update9.26



DESIGN INFORMATION

Building Code: IRC 2018
Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 1'- 10 1/2" Bottom: 16'- 7"

Bearing Stress of Support Material:

- 1323 psi Wall @ 0'- 2 1/2"
- 1323 psi Wall @ 16'- 4 1/2"

ANALYSIS RESULTS						
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result
Max Pos. Moment:	8'- 1 3/4"	D + Lr	1.15	26863 lb ft	33318 lb ft	Passed - 81%
Max Neg. Moment:	8'- 1 3/4"	0.6D + 0.6W	1.60	6180 lb ft	27051 lb ft	Passed - 23%
Max Shear:	1'- 5 1/2"	D + Lr	1.15	5569 lb	10894 lb	Passed - 51%
Live Load (LL) Pos. Defl.:	8'- 3 9/16"	Lr		0.435"	L/360	Passed - L/441
Total Load (TL) Pos. Defl.:	8'- 3 9/16"	D + Lr		0.766"	L/240	Passed - L/250

1	SUPPORT AND REACTION INFORMATION										
		Input Bearing Length	Controlling Load Combination	LDF	Downward Reaction	Uplift Reaction	Resistance of Member	Resistance of Support	Result		
ı	1	3-08	D + Lr	1.15	6687 lb		9188 lb	16207 lb	Passed - 73%		
ı	1	3-08	0.6D + 0.6W	1.60		-1513 lb	-	-			
ı	2	3-08	D + Lr	1.15	6587 lb		9188 lb	16207 lb	Passed - 72%		
ı	2	3-08	0.6D + 0.6W	1.60		-1489 lb	-	-			
	LOAD	ING									
Type Start Loc End Loc Source			Face Dead	(D) Live	(I) Snow	(S) Roof Liv	e (Lr) Wind (W)				

	Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)
Ι,	Self Weight	0'	16'- 7"	Self Weight	Тор	13 lb/ft	-	-	-	-
⊺	apered	1'- 1 3/4"	7'- 1 3/4"	Smoothed Load	Top	310 lb/ft	-	252 lb/ft	379 To 432 lb/ft	116 To 130 lb/ft
Ш	Point	0'- 1 3/4"	0'- 1 3/4"	A02(c09)	Top	510 lb	-	388 lb	589/-29 lb	178/-820 lb
Ш	Point	2'- 1 3/4"	2'- 1 3/4"	A02(c01)	Top	-	-	-	-20 lb	-986 lb
Ш	Point	4'- 1 3/4"	4'- 1 3/4"	A02(c05)	Top	-	-	-	-17 lb	-1055 lb
Ш	Point	6'- 1 3/4"	6'- 1 3/4"	A02(c04)	Top	-	-	-	-19 lb	-1032 lb
Ш	Point	8'- 1 3/4"	8'- 1 3/4"	A02(c03)	Top	827 lb	-	725 lb	1226/-14 lb	375/-1505 lb
Ш	Point	10'- 1 3/4"	10'- 1 3/4"	A02(c07)	Top	657 lb	-	544 lb	880/-14 lb	268/-1080 lb
Ш	Point	12'- 1 3/4"	12'- 1 3/4"	A02(c02)	Top	644 lb	-	531 lb	871/-15 lb	260/-1070 lb
Ш	Point	14'- 1 3/4"	14'- 1 3/4"	A02(c10)	Top	598 lb	-	481 lb	762/-14 lb	232/-983 lb
ΙL	Point	16'- 1 3/4"	16'- 1 3/4"	A02(c06)	Тор	540 lb	-	419 lb	659/-47 lb	197/-902 lb

	DECIDINATE OF THE PROPERTY OF									
2	16'- 3 1/2"	16'- 7"	E11(i7)		2899 lb	-	2284 lb	3696/-99 lb	254 lb/ -5475 lb	
1	0'	0'- 3 1/2"	E22(i63)		2955 lb	-	2319 lb	3725/-90 lb	254 lb/ -5475 lb	
ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)	
UNFACTORED REACTIONS										
Point	16'- 1 3/4"	16'- 1 3/4"	A02(c06)	Тор	540 lb	-	419 lb	659/-47 lb	197/-902 lb	
Point	14 - 1 3/4	14 - 1 3/4	A02(C10)	юр	290 ID	-	40 I ID	/62/-14 ID	232/-963 ID	

DESIGN NOTES

- CAUTION: The maximum net analysis reaction exceeds the user-defined maximum uplift value at one or more supports.
- The dead loads used in the design of this member were applied to the structure as projected dead loads.
- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the
 default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 0.99

PLY TO PLY CONNECTION

- Zone A: Factored load = 0 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 51. Row = 3, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.
 - X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph.. Job Name: **B**

Level: 1st FLOOR
Label: FB1-2 - i64
Type: Beam

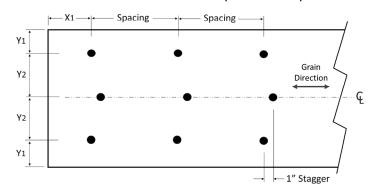
2 Ply Member

2.0 RigidLam DF LVL 1-3/4 x 14 Status:

Design
Passed

PLY TO PLY CONNECTION

FASTENER INSTALLATION – 3 ROWS (FROM ONE FACE)





Customer: Street 1: City:

Illustration Not to Scale. Pitch: 0/12

Customer Ph.

Job Name: B

Level: 1st FLOOR
Label: FB2-2 - i74
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 18

Report Version: 2021.03.26

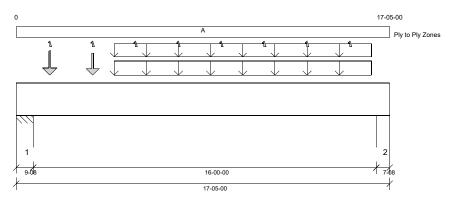
Status:

Design
Passed

06/13/2024 14:48

Designed by Single Member Design Engine in MiTek® Structure Version

8.7.3.303.Update9.26



DESIGN INFORMATION

Building Code: IRC 2018
Design Methodology: ASD

Risk Category: II (General Construction)

Residential

Service Condition: Dry

LL Deflection Limit: L/360, 0.75" (absolute)
TL Deflection Limit: L/240, 1.00" (absolute)

Lateral Restraint Requirements:

Both ends of the member and the outer supports must be laterally restrained. Top and bottom edges of the member must be fully restrained or have the following maximum unbraced length:

Top: 0' Bottom: 1'- 8 1/2"

Bearing Stress of Support Material:

- 1323 psi Wall @ 0'- 8 1/2"
- 725 psi Wall @ 16'- 10 1/2"

ANALYSIS RESULTS											
Design Criteria	Location	Load Combination	LDF	Design	Limit	Result					
Max Pos. Moment:	9'- 6 3/4"	D + L	1.00	25538 lb ft	46413 lb ft	Passed - 55%					
Max Shear:	15'- 3 1/2"	D + L	1.00	6029 lb	12180 lb	Passed - 50%					
Live Load (LL) Pos. Defl.:	8'- 9 7/16"	L		0.252"	L/360	Passed - L/761					
Total Load (TL) Pos. Defl.:	8'- 9 7/16"	D + L		0.354"	L/240	Passed - L/543					
SUPPORT AND REACT	SUPPORT AND REACTION INFORMATION										

0011										
Input ID Bearing Length		Controlling Load Combination		-		Uplift Reaction	Resistance of Member	Resistance of Support	Result	
1 9-08 2 7-08 LOADING		D + I	L 1.0	0 660	7 lb		24937 lb	43990 lb	Passed - 26%	
		7-08 D+L		1.00 6094 lb		196		19031 lb	Passed - 32%	
Туре	Start Loc	End Loc	Source	Face	Dead (D)	Live	(L) Snow	v (S) Roof Li	ive (Lr) Wind (W)	
Self Weight	0'	17'- 5"	Self Weight	Тор	17 lb/ft	-	-			
Uniforn	n 4'- 6 3/4"	16'- 6 3/4"	Smoothed Load	Front	111 lb/ft	299 I	b/ft -			
Uniforn	n 4'- 6 3/4"	16'- 6 3/4"	Smoothed Load	Back	95 lb/ft	255 I	b/ft 0 lb	b/ft 0 lb	b/ft 0 lb/ft	
Point	1'- 6 3/4"	1'- 6 3/4"	-	Front	485 lb	1267/-	-2 lb 1	lb 1	lb 0/-2 lb	
Point	3'- 6 3/4"	3'- 6 3/4"	-	Front	410 lb	1105	ib 0	lb 1	lb 0/-2 lb	
	ID 1 2 LOAI Type Self Weight Uniform Uniform Point	Input ID Bearing Length 1 9-08 2 7-08 LOADING Type Start Loc Self Weight Uniform 4'- 6 3/4" Uniform 4'- 6 3/4" Point 1'- 6 3/4"	Input Controlling Combinition	Input Bearing Controlling Load Combination LD	ID Bearing Controlling Load LDF Down	Input Bearing Controlling Load Combination LDF Downward Reaction	Input Bearing Controlling Load Combination LDF Downward Reaction	Input Bearing Length	Input Bearing Length	

l	Point	5'- 6 3/4"	5'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	Point	7'- 6 3/4"	7'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	Point	9'- 6 3/4"	9'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	Point	11'- 6 3/4"	11'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	Point	13'- 6 3/4"	13'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	Point	15'- 6 3/4"	15'- 6 3/4"	-	Front	-	-	-	-	-2 lb		
l	UNFACTORED REACTIONS											
l	ID	Start Loc	End Loc	Source		Dead (D)	Live (L)	Snow (S)	Roof Live (Lr)	Wind (W)		
l	1	0'	0'- 9 1/2"	E24(i72)		1907 lb	4700/-2 lb	2 lb	3 lb	2 lb/ -8 lb		

1754 lb

4340 lb

2 lb

3 lb

2 lb/ -8 lb

DESIGN NOTES

16'- 9 1/2"

17'- 5"

• The dead loads used in the design of this member were applied to the structure as projected dead loads.

E25(i73)

- Analysis and Design has been performed using precision loading from actual modeled conditions. Some loads may have been modified to simplify reporting.
- Tributary Loads have been generated based on actual spacing between members in the model which may differ from the default system spacing. The actual loads applied to the member are shown in the Specified Loads table.
- · Transfer reactions may differ from design results as allowed per building codes and standard load distribution practices.
- This report is based on modeled conditions input by the user. Source information for the loads and supports are provided for reference only. Verify that all loads and support conditions are correct.
- Review all loads and reactions to ensure that the member/bearing/connector/structure can resist adequately. Unless already
 specified on this report, anchorage for uplift reactions to be specified by others. Installation of member and accessories (if
 required) as per manufacturer's instruction.
- Beam Stability Factor used in the calculation for Allowable Max Pos Moment (CL) = 1.00

PLY TO PLY CONNECTION

Zone A: Factored load = 468 plf. Use 12d (0.148"x3.25") nails. LDF = 1.00. Qty = 54. Row = 3, Spacing = 12"
 12d (0.148"x3.25") nails properties: D = 0.148", L = 3.25". Fastener capacity = 117 lbs. X1 = 2.25", Y1 = 0.75", Y2 = 1.5" Install fasteners from one face.

X1 = Minimum end distance, X2 = Minimum edge distance, Y2 = Minimum row spacing.



Customer: Street 1: City: Customer Ph.. Job Name: **B**

Level: 1st FLOOR
Label: FB2-2 - i74
Type: Beam

2 Ply Member 2.0 RigidLam DF LVL 1-3/4

x 18

Status: Design Passed

PLY TO PLY CONNECTION

FASTENER INSTALLATION – 3 ROWS (FROM ONE FACE)

