DATE 12/02/2005

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT
000023920

APPLICANT MELANIE RODER PHONE 752.2281

ADDRESS 387 SE KEMP CT LAKE CITY FL 32024

OWNER AARON SIMQUE HOMES PHONE 386.755.0841

ADDRESS 193 SE CAROB GLEN LAKE CITY FL 32025

CONTRACTOR AARON SIMQUE PHONE 386.752.2281

LOCATION OF PROPERTY 90-E TO SR 100,TR TO C-245,TR TO PLANT,TR TO GOLDIE WAY,TL TO CAROB GLN,TR AND IT'S THE 5TH LOT ON R.

TYPE DEVELOPMENT SFD/UTILLITY ESTIMATED COST OF CONSTRUCTION 109450.00

HEATED FLOOR AREA 2189.00 TOTAL AREA 3189.00 HEIGHT 18.50 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 6'12 FLOOR CONC

LAND USE & ZONING RSF-2 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 25.00 REAR 15.00 SIDE 10.00

NO. EX.D.U. 0 FLOOD ZONE XPS DEVELOPMENT PERMIT NO.

PARCEL ID 03-4S-17-07571-000 SUBDIVISION PARCEL "B"

LOT BLOCK PHASE UNIT TOTAL ACRES .64

000000905		RB29003130	Melanie Roder	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
18"X32'MITERED	05-1038-N	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: NOC ON FILE. 1 FOOT ABOVE ROAD.

Check # or Cash 51334

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power _____ date/app. by Foundation _____ date/app. by Monolithic _____ date/app. by

Under slab rough-in plumbing _____ date/app. by Slab _____ date/app. by Sheathing/Nailing _____ date/app. by

Framing _____ date/app. by Rough-in plumbing above slab and below wood floor _____ date/app. by

Electrical rough-in _____ date/app. by Heat & Air Duct _____ date/app. by Peri. beam (Lintel) _____ date/app. by

Permanent power _____ date/app. by C.O. Final _____ date/app. by Culvert _____ date/app. by

M/H tie downs, blocking, electricity and plumbing _____ date/app. by Pool _____ date/app. by

Reconnection _____ date/app. by Pump pole _____ date/app. by Utility Pole _____ date/app. by

M/H Pole _____ date/app. by Travel Trailer _____ date/app. by Re-roof _____ date/app. by

BUILDING PERMIT FEE $ 550.00 CERTIFICATION FEE $ 15.95 SURCHARGE FEE $ 15.95

MISC. FEES $ .00 ZONING CERT. FEE $ 50.00 FIRE FEE $ .00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 681.90

INSPECTORS OFFICE CLERKS OFFICE CH

NOTICE: IN ADDITION TO THE REQUIREMENTS OF THIS PERMIT, THERE MAY BE ADDITIONAL RESTRICTIONS APPLICABLE TO THIS PROPERTY THAT MAY BE FOUND IN THE PUBLIC RECORDS OF THIS COUNTY. AND THERE MAY BE ADDITIONAL PERMITS REQUIRED FROM OTHER GOVERNMENTAL ENTITIES SUCH AS WATER MANAGEMENT DISTRICTS, STATE AGENCIES, OR FEDERAL AGENCIES.

"WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCEMENT MAY RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT."

This Permit Must Be Prominently Posted on Premises During Construction

PLEASE NOTIFY THE COLUMBIA COUNTY BUILDING DEPARTMENT AT LEAST 24 HOURS IN ADVANCE OF EACH INSPECTION, IN ORDER THAT IT MAY BE MADE WITHOUT DELAY OR INCONVIENCE, PHONE 758-1008. THIS PERMIT IS NOT VALID UNLESS THE WORK AUTHORIZED BY IT IS COMMENCED WITHIN 6 MONTHS AFTER ISSUANCE.

The Issuance of this Permit Does Not Waive Compliance by Permittee with Deed Restrictions.

CERTIFICATE OF

OCCUPANCY

COLUMBIA COUNTY, FLORIDA

Department of Building and Zoning Inspection

This Certificate of Occupancy is issued to the below named permit holder for the building and premises at the below named location, and certifies that the work has been completed in accordance with the Columbia County Building Code.

Parcel Number 03-4S-17-07571-000

Building permit No. 000023920

Use Classification SFD/UTILLITY

Fire: 11.84

Permit Holder AARON SIMQUE

Waste: 24.50

Owner of Building AARON SIMQUE HOMES

Total: 36.34

Location: 193 SE CAROB GLEN, LAKE CITY, FL

Date: 08/22/2006

Harry Dicks

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)

Aaron Simque Homes "Parcel B"

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 05-11-12 Date Received 11/2 By TW Permit # 905 / 23920
Application Approved by - Zoning Official BLK Date 08.11.05 Plans Examiner DK STH Date 12-2-05
Flood Zone X Per ~~PLAT~~ SURVEY Development Permit N/A Zoning RSF-2 Land Use Plan Map Category RES. LOW DEN.
Comments ~~[illegible]~~ CK# 51334

Applicants Name Melanie Roder Phone 752-2281
Address 387 SW Kemp CT Lake City, FL 32024
Owners Name Aaron Simque Homes Phone 755-0841
911 Address 193 SE Carob gln Lake City, FL 32055
Contractors Name Aaron Simque Homes Phone 755-0841
Address P.O. Box 2183 Lake City, FL 32056
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address NA
Architect/Engineer Name & Address Will Myers, Mark Disosway
Mortgage Lenders Name & Address Columbia County Bank

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive Energy
Property ID Number 03-4S-17-07571-000 Estimated Cost of Construction 70,000
Subdivision Name (Parcel "B") Lot ____ Block ____ Unit ____ Phase ____
Driving Directions 90 E, TR on 100, TR on CR 245, TR on Plant St, TL on Goldie Way, TR on Carob gln. 5th lot on Right.

Type of Construction SFD Number of Existing Dwellings on Property 0
Total Acreage ____ Lot Size ____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive
Actual Distance of Structure from Property Lines - Front 41'4" W Side 24'10" W Side 29' W Rear 55'5" W
Total Building Height 18'5" Number of Stories 1 Heated Floor Area 2189 Roof Pitch 6-12
Porches 260 GARAGE 415 TOTAL 2189 1514

Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.

OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

Owner Builder or Agent (Including Contractor)

NOTARY PUBLIC STATE OF FLORIDA
Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

X
Contractor Signature
Contractors License Number 29003130
Competency Card Number
NOTARY STAMP/SEAL

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 31st day of October 20 05.
Personally known ✓ or Produced Identification ____

Linda Roder
Notary Signature
Ja called 12.02.05 - Linda -

Inst:2005022386 Date:09/13/2005 Time:16:17
Doc Stamp-Deed : 420.00
DC,P.DeWitt Cason,Columbia County B:1058 P:432

Corporate Warranty Deed

This Indenture, made , September 12, 2005 A.D.
Between
Venture Capital Elite, Inc. whose post office address is: 3731 NW 60th Street, Parkland, Fl. 33067 a corporation existing under the laws of the State of Florida, Grantor

and Aaron Sinque Homes, Inc. whose post office address is: Post Office Box 2183, Lake City, Fl. 32056, Grantee,

Witnesseth, that the said Grantor, for and in consideration of the sum of Ten and No/100 Dollars ($10.00), to it in hand paid by the said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee forever, the following described land, situate, lying and being in the County of Columbia, State of Florida, to wit:

See Exhibit "A" Attached Hereto And By This Reference Made A Part Hereof

Subject to taxes for the current year, covenants, restrictions and easements of record, if any.

Parcel Identification Number: R07570-024

And the said Grantor does hereby fully warrant the title to said land, and will defend the same against the lawful claims of all persons whomsoever.

In Witness Whereof, the said Grantor has caused this instrument to be executed in its name by its duly authorized officer and caused its corporate seal to be affixed the day and year first above written.

Venture Capital Elite, Inc.

Signed and Sealed in Our Presence:

By: _____
William Wilson
Its: President

Witness Print Name: MARLON EDWARDS

Witness Print Name: Anthony Malcolm

(Corporate Seal)

State of FLORIDA
County of BROWARD

The foregoing instrument was acknowledged before me this 9th day of September, 2005, by William Wilson, the President of Venture Capital Elite, Inc. A corporation existing under the laws of the State of Florida, on behalf of the corporation.
He/She is personally known to me or has produced _____ as identification.

_____ (Seal)
Notary Public
Notary Printed Name: Shelleon King

My Commission Expires: 1/11/2009

Notary Public State of Florida
Shelleon King
My Commission DD385327
Expires 01/11/2009

Prepared by:
Lyndi Skinner/Elaine R. Davis, as employee of
American Title Services of Lake City, Inc.,
330 SW Main Boulevard
Lake City, Florida 32025
File Number: 05-643

COLUMBIA COUNTY, FLORIDA CLERK CIRCUIT COURT

STATE OF FLORIDA, COUNTY OF COLUMBIA
I HEREBY CERTIFY, that the above and foregoing is a true copy of the original filed in this office
P. DeWITT CASON, CLERK OF COURTS
By _____ Deputy Clerk
Date 9/29/05

Closer's Choice Florida Corporate Deed/Letter

EXHIBIT "A"

Parcel 1:

LOT 24 IN SUZANNE SUBDIVISION UNIT 1, AS RECORDED IN PLAT BOOK 4, PAGE 91, COLUMBIA COUNTY, FLORIDA.

AND

Parcel 2:

TOWNSHIP 4 SOUTH-RANGE 17 EAST

SECTION 3: Begin at the Northwest Corner of Lot 24 of Suzanne Subdivision Unit 1, as recorded in Plat Book 4, Page 91, Columbia County, Florida and run thence S 40°43'02" W, 97.36 feet to the West boundary line of the Northeast 1/4 of said Section 3; thence run S 00°48'40" E, 300.06 feet more or less to the North right of way line of Golde Circle; thence S 82°40'35" E, along said right of way line 175.66 feet; N 14°55'55" W, 435.03 feet to the Point of Beginning.

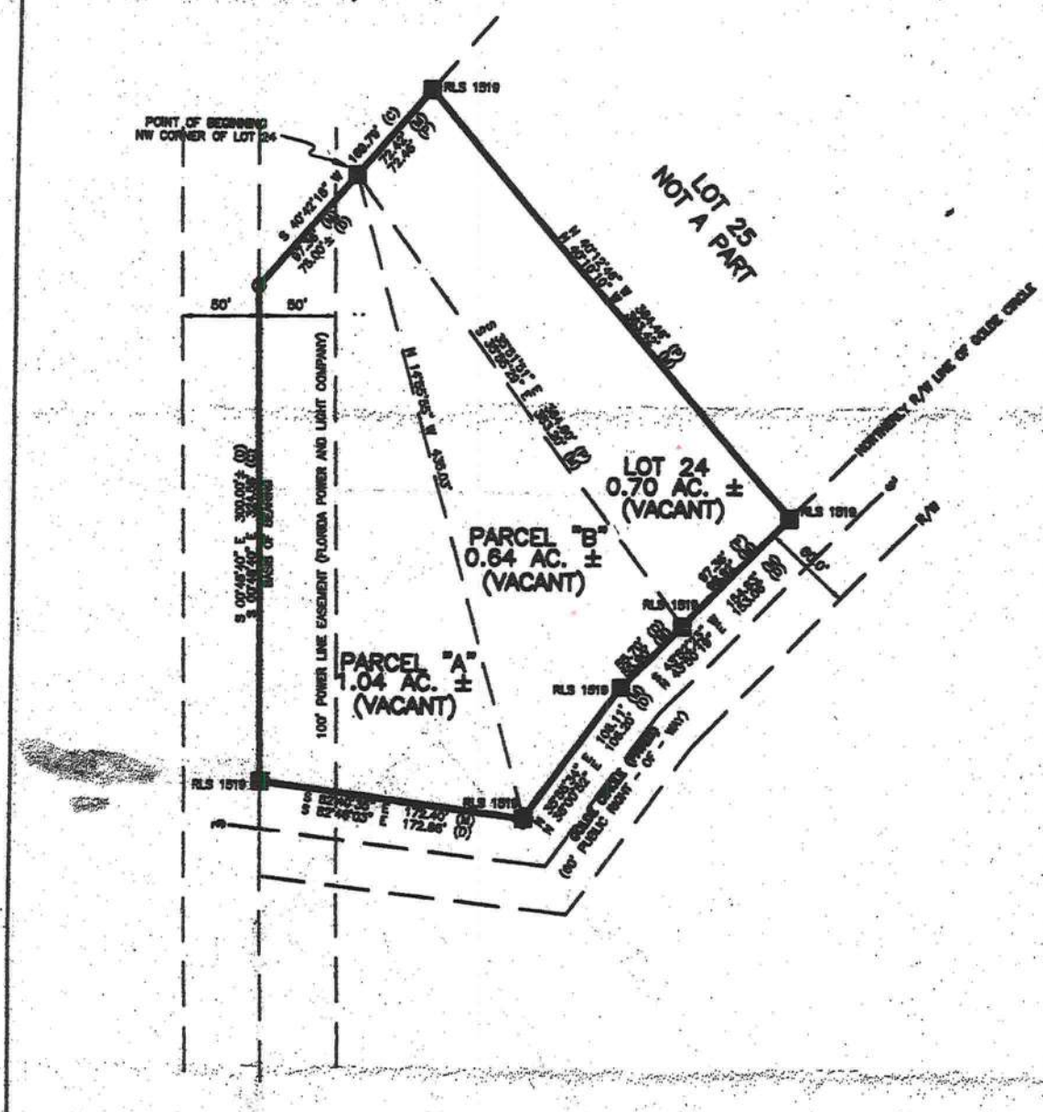
AND

Parcel 3:

TOWNSHIP 4 SOUTH-RANDE 17 EAST

SECTION 3: Being at the Northwest Corner of Lot 24 of Suzanne Subdivision Unit 1, as recorded in Plat Book 4, Page 91, Columbia County, Florida and run thence S 14°55'55" E, 435.03 feet to the North right of way of Golde Circle; thence N 36°00'52" E, along said right of way line 106.20 feet; thence continue along said right of way N 43°50'19" E, 55.70 feet to the Westerly boundary line of said Lot 24: thence N 38°51'51" W, along said Westerly line 364.60 feet to the Point of Beginning.

Inst:200502308 Date:09/13/2005 Time:16:17
Doc Stamp-Deed : 420.00
_____DC,P.DeWitt Cason,Columbia County B:1058 P:433



PARCEL "A"

BEGIN AT THE NOR
SUZANNE SUBDIVIS
4 PAGE 91, COLUM
S 40°43'02" W, 97.
OF OF THE NORTHE
RUN S 00°48'40" E
NORTH RIGHT-OF-
82°40'35" E ALONG
THENCE N 14°55'55
BEGINNING. SUBJEC
WEST 50 FEET THE

PARCEL "B"

BEGIN AT THE NOR
SUZANNE SUBDIVISI
BOOK 4, PAGE 91,
RUN THENCE S 14°
RIGHT-OF-WAY OF
E, ALONG SAID RIG
THENCE CONTINUE
43°50'19" E, 55.70
LINE OF SAID LOT
SAID WESTERLY LIN
BEGINNING.

NOTES:

1. BEARINGS ARE BASED ON THE WEST LINE OF SAID PROPERTY, BEING S 00°48'40" E.
2. SUBJECT PROPERTY LIES IN ZONE "X", AN AREA OUTSIDE OF THE 500-YEAR FLOOD PLAIN PER FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 120070 0175 B. LAST REVISION DATE JANUARY 6, 1988. FLOOD ZONE LINES, IF ANY, ARE SCALED FROM FLOOD INSURANCE RATE MAPS, PROVIDED BY FEMA.
3. ONLY THOSE VISIBLE INTERIOR IMPROVEMENTS AND IMPROVEMENTS PERTINENT TO THE SUBJECT PROPERTY HAVE BEEN LOCATED AS SHOWN HEREON. EXCEPTION IS MADE HEREON TO UNDERGROUND FACILITIES AND OTHER IMPROVEMENTS NOT VISIBLE OR KNOWN AT DATE OF SURVEY.
4. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF AN ABSTRACT OR TITLE POLICY. THEREFORE, EXCEPTION IS MADE HEREIN REGARDING EASEMENTS, RESERVATIONS AND RESTRICTIONS OF RECORD NOT PROVIDED BY THE CLIENT.
5. CLOSURE EXCEEDS 1 : 10,000.
6. SCALE AND GRAPHIC LOCATION OF FENCES AND UTILITY POLES, IF ANY, MAY BE EXAGGERATED FOR CLARITY.

THIS INSTRUMENT PREPARED BY
& RETURN TO:
Columbia County Bank
Linda Evans
173 NW Hillsboro Street
Lake City, FL 32055
REC: $

Inst:2005022345 Date:09/13/2005 Time:12:28
DC,P.DeWitt Cason,Columbia County B:1058 P:285

NOTICE OF COMMENCEMENT

THE UNDERSIGNED hereby gives notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement:

1. Description of Property: Unplatted Lot adjacent to #24 Suzanne Subdivision, SE Carob Glen Parcel #4

2. General Description of Improvements: Approx. 1,500 square foot single family residence

3. Owner Information: Aaron Simque Homes, Inc.
P.O. Box 2183
Lake City, FL 32056

Owner's Interest in Property: Fee Simple

4. Contractor: Aaron Simque Homes, Inc.
P.O.Box 2183
Lake City, FL 32056

5. Lender: Columbia County Bank
173 NW Hillsboro Street
Lake City, FL 32055

6. Additional persons within the State of Florida designated by Owner upon whom notices or other documents may be served as provided by Section 713.13(1)(a)7., Florida Statutes:

7. Expiration date of Notice of Commencement is one (1) year from the date of recording.

Aaron Simque Homes, Inc.

Aaron Simque, President

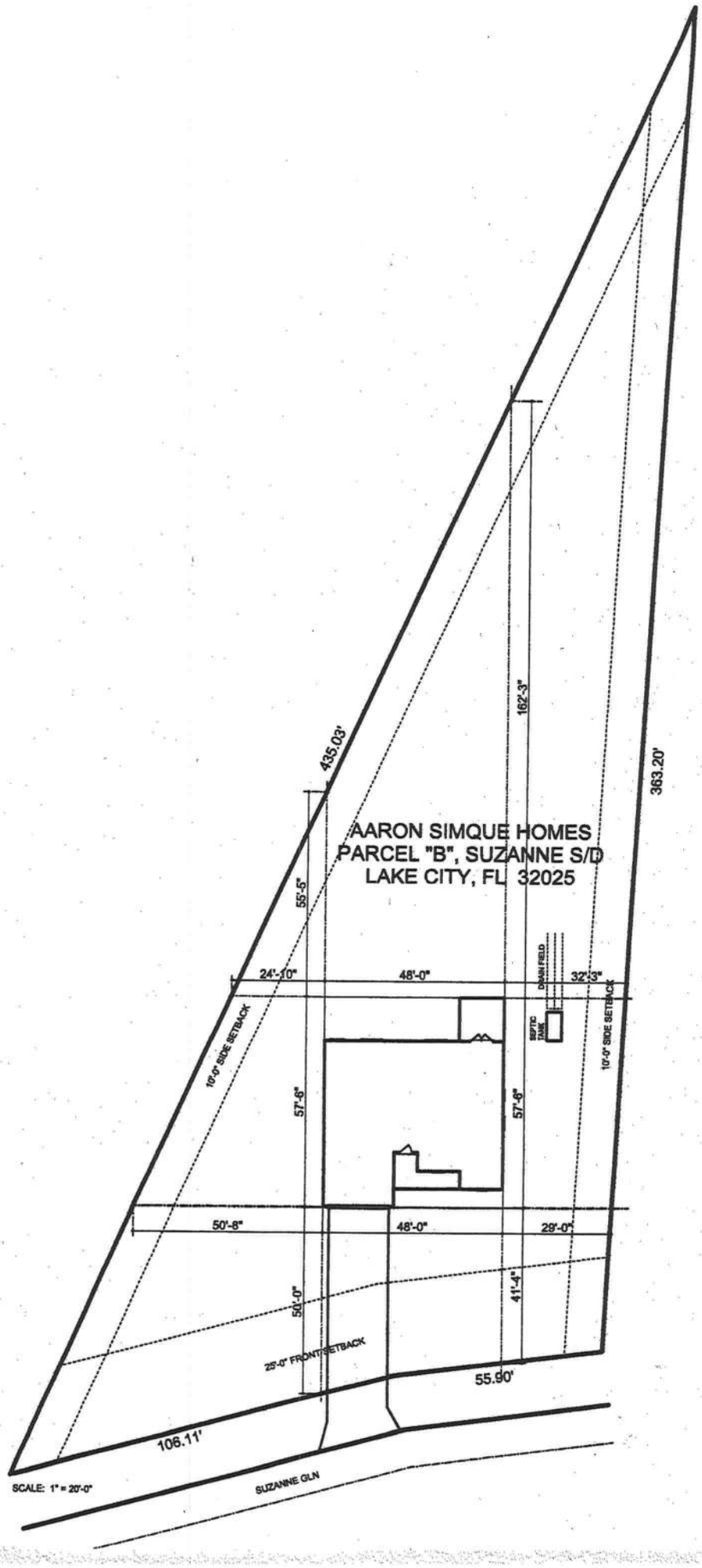
STATE OF FLORIDA}
COUNTY OF Columbia}

The foregoing instrument was acknowledged before me this 12 day of ~~August~~ September, 2005 by Aaron Simque as President of Aaron Simque Homes, Inc.

F. VONDILE DOW
MY COMMISSION # DD 164929
EXPIRES: October 3, 2006
Bonded Thru Notary Public Underwriters

NOTARY PUBLIC
Name:
State of Florida at Large (SEAL)
Personally Known: ✓
Produced Identification:
Type:
My Commission Expires:

(NOC)


AARON SIMQUE HOMES
PARCEL "B", SUZANNE S/D
LAKE CITY, FL 32025
435.03'
363.20'
162'-3"
55'-6"
24'-10"
48'-0"
32'-3"
DRAIN FIELD
SEPTIC TANK
10'-0" SIDE SETBACK
10'-0" SIDE SETBACK
57'-6"
57'-6"
50'-8"
48'-0"
29'-0"
50'-0"
41'-4"
25'-0" FRONT SETBACK
55.90'
106.11'
SCALE: 1" = 20'-0"
SUZANNE GLN

FORM 600A-2001

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**Aaron Simque Homes - Spec House 1**	Builder:	**Aaron Simque Homes**
Address:	**Lot: , Sub: Suzanne, Plat:**	Permitting Office:	23920
City, State:	**Lake City, FL 32025-**	Permit Number:	
Owner:	**Spec House**	Jurisdiction Number:	21000
Climate Zone:	**North**		

1. New construction or existing	New	
2. Single family or multi-family	Single family	
3. Number of units, if multi-family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	No	
6. Conditioned floor area (ft²)	1545 ft²	
7. Glass area & type		
a Clear - single pane	0.0 ft²	
b. Clear - double pane	192.0 ft²	
c Tint/other SHGC - single pane	0.0 ft²	
d. Tint/other SHGC - double pane	0.0 ft²	
8. Floor types		
a Slab-On-Grade Edge Insulation	R=0.0, 171.0(p) ft	
b. N/A		
c N/A		
9. Wall types		
a Frame, Wood, Exterior	R=13.0, 1135.0 ft²	
b. Frame, Wood, Adjacent	R=13.0, 196.0 ft²	
c N/A		
d. N/A		
e N/A		
10. Ceiling types		
a Under Attic	R=30.0, 1889.0 ft²	
b. N/A		
c N/A		
11. Ducts		
a Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft	
b. N/A		

12. Cooling systems		
a. Central Unit	Cap: 31.0 kBtu/hr	
	SEER: 11.00	
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump	Cap: 31.0 kBtu/hr	
	HSPF: 6.80	
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance	Cap: 40.0 gallons	
	EF: 0.90	
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

Glass/Floor Area: 0.12

Total as-built points: 23792
Total base points: 24693

PASS

I hereby certify that the plans and specifications covered by this calculation are in compliance with the Florida Energy Code.

PREPARED BY: Will Myers

DATE: 08/31/05

I hereby certify that this building, as designed, is in compliance with the Florida Energy Code.

OWNER/AGENT: _____

DATE: _____

Review of the plans and specifications covered by this calculation indicates compliance with the Florida Energy Code. Before construction is completed this building will be inspected for compliance with Section 553.908 Florida Statutes.

GREAT SEAL OF THE STATE OF FLORIDA — IN GOD WE TRUST

BUILDING OFFICIAL: _____

DATE: _____

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area	X BSPM	= Points		Type/SC	Overhang Ornt	Len	Hgt	Area X	SPM X	SOF	= Points
.18	1545.0	20.04	5573.1	Double, Clear	W	1.5	6.0	75.0	36.99	0.91	2533.6
				Double, Clear	W	13.8	7.7	40.0	36.99	0.42	619.0
				Double, Clear	N	1.5	2.0	4.0	19.22	0.76	58.2
				Double, Clear	E	1.5	6.0	15.0	40.22	0.91	550.7
				Double, Clear	E	1.5	8.0	30.0	40.22	0.96	1155.5
				Double, Clear	S	1.5	2.0	4.0	34.50	0.57	78.0
				Double, Clear	S	1.5	6.0	20.0	34.50	0.86	590.7
				Double, Clear	S	1.5	2.0	4.0	34.50	0.57	78.0
				As-Built Total:				**192.0**			**5863.8**
WALL TYPES	Area X	BSPM =	Points	Type		R-Value		Area X	SPM =		Points
Adjacent	196.0	0.70	137.2	Frame, Wood, Exterior		13.0		1135.0	1.50		1702.5
Exterior	1135.0	1.70	1929.5	Frame, Wood, Adjacent		13.0		196.0	0.60		117.6
Base Total:	**1331.0**		**2066.7**	**As-Built Total:**				**1331.0**			**1820.1**
DOOR TYPES	Area X	BSPM =	Points	Type				Area X	SPM =		Points
Adjacent	18.0	2.40	43.2	Exterior Insulated				20.0	4.10		82.0
Exterior	20.0	6.10	122.0	Adjacent Insulated				18.0	1.60		28.8
Base Total:	**38.0**		**165.2**	**As-Built Total:**				**38.0**			**110.8**
CEILING TYPES	Area X	BSPM =	Points	Type		R-Value		Area X	SPM X SCM =		Points
Under Attic	1545.0	1.73	2672.9	Under Attic		30.0		1889.0	1.73 X 1.00		3268.0
Base Total:	**1545.0**		**2672.9**	**As-Built Total:**				**1889.0**			**3268.0**
FLOOR TYPES	Area X	BSPM =	Points	Type		R-Value		Area X	SPM =		Points
Slab	171.0(p)	-37.0	-6327.0	Slab-On-Grade Edge Insulation		0.0		171.0(p	-41.20		-7045.2
Raised	0.0	0.00	0.0								
Base Total:			**-6327.0**	**As-Built Total:**				**171.0**			**-7045.2**
INFILTRATION	Area X	BSPM =	Points					Area X	SPM =		Points
	1545.0	10.21	15774.5					1545.0	10.21		15774.5

FORM 600A-2001

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
Summer Base Points:			**19925.3**	**Summer As-Built Points:**								**19591.9**
Total Summer Points	X	System Multiplier	= Cooling Points	Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	= Cooling Points
19925.3		**0.4266**	**8500.1**	19591.9 **19591.9**		1.000 **1.00**		(1.090 x 1.147 x 1.00) **1.250**		0.310 **0.310**		1.000 **1.000**	7599.9 **7599.9**

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT							
GLASS TYPES .18 X Conditioned Floor Area		X BWPM	= Points	Type/SC	Overhang Ornt	Len	Hgt	Area X	WPM X	WOF	= Points
.18	1545.0	12.74	3543.0	Double, Clear	W	1.5	6.0	75.0	10.77	1.02	826.4
				Double, Clear	W	13.8	7.7	40.0	10.77	1.22	524.6
				Double, Clear	N	1.5	2.0	4.0	14.30	1.01	58.1
				Double, Clear	E	1.5	6.0	15.0	9.09	1.04	141.2
				Double, Clear	E	1.5	8.0	30.0	9.09	1.02	278.1
				Double, Clear	S	1.5	2.0	4.0	4.03	2.27	36.5
				Double, Clear	S	1.5	6.0	20.0	4.03	1.12	90.1
				Double, Clear	S	1.5	2.0	4.0	4.03	2.27	36.5
				As-Built Total:				**192.0**			**1991.5**
WALL TYPES	Area X	BWPM	= Points	Type		R-Value		Area X	WPM	=	Points
Adjacent	196.0	3.60	705.6	Frame, Wood, Exterior		13.0		1135.0	3.40		3859.0
Exterior	1135.0	3.70	4199.5	Frame, Wood, Adjacent		13.0		196.0	3.30		646.8
Base Total:	**1331.0**		**4905.1**	**As-Built Total:**				**1331.0**			**4505.8**
DOOR TYPES	Area X	BWPM	= Points	Type				Area X	WPM	=	Points
Adjacent	18.0	11.50	207.0	Exterior Insulated				20.0	8.40		168.0
Exterior	20.0	12.30	246.0	Adjacent Insulated				18.0	8.00		144.0
Base Total:	**38.0**		**453.0**	**As-Built Total:**				**38.0**			**312.0**
CEILING TYPES	Area X	BWPM	= Points	Type		R-Value		Area X	WPM X WCM	=	Points
Under Attic	1545.0	2.05	3167.3	Under Attic		30.0		1889.0	2.05 X 1.00		3872.4
Base Total:	**1545.0**		**3167.3**	**As-Built Total:**				**1889.0**			**3872.4**
FLOOR TYPES	Area X	BWPM	= Points	Type		R-Value		Area X	WPM	=	Points
Slab	171.0(p)	8.9	1521.9	Slab-On-Grade Edge Insulation		0.0		171.0(p	18.80		3214.8
Raised	0.0	0.00	0.0								
Base Total:			**1521.9**	**As-Built Total:**				**171.0**			**3214.8**
INFILTRATION	Area X	BWPM	= Points					Area X	WPM	=	Points
	1545.0	-0.59	-911.5					1545.0	-0.59		-911.5

FORM 600A-2001

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE				AS-BUILT								
Winter Base Points:			**12678.7**	**Winter As-Built Points:**								**12985.0**
Total Winter Points	X	System Multiplier	= Heating Points	Total Component	X	Cap Ratio	X	Duct Multiplier (DM x DSM x AHU)	X	System Multiplier	X	Credit Multiplier	=	Heating Points
12678.7		**0.6274**	**7954.6**	12985.0 **12985.0**		1.000 **1.00**		(1.069 x 1.169 x 1.00) **1.250**		0.501 **0.501**		1.000 **1.000**		8137.3 **8137.3**

FORM 600A-2001

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

BASE					AS-BUILT							
WATER HEATING												
Number of Bedrooms	X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank Ratio	X Multiplier	X Credit Multiplier	= Total
3		2746.00		8238.0	40.0	0.90	3		1.00	2684.98	1.00	8054.9
					As-Built Total:							**8054.9**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points +	Heating Points +	Hot Water Points =	Total Points	Cooling Points +	Heating Points +	Hot Water Points =	Total Points
8500	**7955**	**8238**	**24693**	**7600**	**8137**	**8055**	**23792**

PASS

FORM 600A-2001

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-** PERMIT #:

6A-21 INFILTRATION REDUCTION COMPLIANCE CHECKLIST

COMPONENTS	SECTION	REQUIREMENTS FOR EACH PRACTICE	CHECK
Exterior Windows & Doors	606.1.ABC.1.1	Maximum:.3 cfm/sq.ft. window area; .5 cfm/sq.ft. door area.	
Exterior & Adjacent Walls	606.1.ABC.1.2.1	Caulk, gasket, weatherstrip or seal between: windows/doors & frames, surrounding wall; foundation & wall sole or sill plate; joints between exterior wall panels at corners; utility penetrations; between wall panels & top/bottom plates; between walls and floor. EXCEPTION: Frame walls where a continuous infiltration barrier is installed that extends from, and is sealed to, the foundation to the top plate.	
Floors	606.1.ABC.1.2.2	Penetrations/openings >1/8" sealed unless backed by truss or joint members. EXCEPTION: Frame floors where a continuous infiltration barrier is installed that is sealed to the perimeter, penetrations and seams.	
Ceilings	606.1.ABC.1.2.3	Between walls & ceilings; penetrations of ceiling plane of top floor; around shafts, chases, soffits, chimneys, cabinets sealed to continuous air barrier; gaps in gyp board & top plate; attic access. EXCEPTION: Frame ceilings where a continuous infiltration barrier is installed that is sealed at the perimeter, at penetrations and seams.	
Recessed Lighting Fixtures	606.1.ABC.1.2.4	Type IC rated with no penetrations, sealed; or Type IC or non-IC rated, installed inside a sealed box with 1/2" clearance & 3" from insulation; or Type IC rated with < 2.0 cfm from conditioned space, tested.	
Multi-story Houses	606.1.ABC.1.2.5	Air barrier on perimeter of floor cavity between floors.	
Additional Infiltration reqts	606.1.ABC.1.3	Exhaust fans vented to outdoors, dampers; combustion space heaters comply with NFPA, have combustion air.	

6A-22 OTHER PRESCRIPTIVE MEASURES (must be met or exceeded by all residences.)

COMPONENTS	SECTION	REQUIREMENTS	CHECK
Water Heaters	612.1	Comply with efficiency requirements in Table 6-12. Switch or clearly marked circuit breaker (electric) or cutoff (gas) must be provided. External or built-in heat trap required.	
Swimming Pools & Spas	612.1	Spas & heated pools must have covers (except solar heated). Non-commercial pools must have a pump timer. Gas spa & pool heaters must have a minimum thermal efficiency of 78%.	
Shower heads	612.1	Water flow must be restricted to no more than 2.5 gallons per minute at 80 PSIG.	
Air Distribution Systems	610.1	All ducts, fittings, mechanical equipment and plenum chambers shall be mechanically attached, sealed, insulated, and installed in accordance with the criteria of Section 610. Ducts in unconditioned attics: R-6 min. insulation.	
HVAC Controls	607.1	Separate readily accessible manual or automatic thermostat for each system.	
Insulation	604.1, 602.1	Ceilings-Min. R-19. Common walls-Frame R-11 or CBS R-3 both sides. Common ceiling & floors R-11.	

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 83.4

The higher the score, the more efficient the home.

Spec House, Lot: , Sub: Suzanne, Plat: , Lake City, FL, 32025-

1. New construction or existing	New	
2. Single family or multi-family	Single family	
3. Number of units, if multi-family	1	
4. Number of Bedrooms	3	
5. Is this a worst case?	No	
6. Conditioned floor area (ft²)	1545 ft²	
7. Glass area & type		
a. Clear - single pane	0.0 ft²	
b. Clear - double pane	192.0 ft²	
c. Tint/other SHGC - single pane	0.0 ft²	
d. Tint/other SHGC - double pane	0.0 ft²	
8. Floor types		
a. Slab-On-Grade Edge Insulation	R=0.0, 171.0(p) ft	
b. N/A		
c. N/A		
9. Wall types		
a. Frame, Wood, Exterior	R=13.0, 1135.0 ft²	
b. Frame, Wood, Adjacent	R=13.0, 196.0 ft²	
c. N/A		
d. N/A		
e. N/A		
10. Ceiling types		
a. Under Attic	R=30.0, 1889.0 ft²	
b. N/A		
c. N/A		
11. Ducts		
a. Sup: Unc. Ret: Unc. AH: Garage	Sup. R=6.0, 40.0 ft	
b. N/A		
12. Cooling systems		
a. Central Unit		Cap: 31.0 kBtu/hr
		SEER: 11.00
b. N/A		
c. N/A		
13. Heating systems		
a. Electric Heat Pump		Cap: 31.0 kBtu/hr
		HSPF: 6.80
b. N/A		
c. N/A		
14. Hot water systems		
a. Electric Resistance		Cap: 40.0 gallons
		EF: 0.90
b. N/A		
c. Conservation credits (HR-Heat recovery, Solar DHP-Dedicated heat pump)		
15. HVAC credits (CF-Ceiling fan, CV-Cross ventilation, HF-Whole house fan, PT-Programmable Thermostat, MZ-C-Multizone cooling, MZ-H-Multizone heating)		

I certify that this home has complied with the Florida Energy Efficiency Code For Building Construction through the above energy saving features which will be installed (or exceeded) in this home before final inspection. Otherwise, a new EPL Display Card will be completed based on installed Code compliant features.

Builder Signature: _____ Date: _____

Address of New Home: _____ City/FL Zip: _____

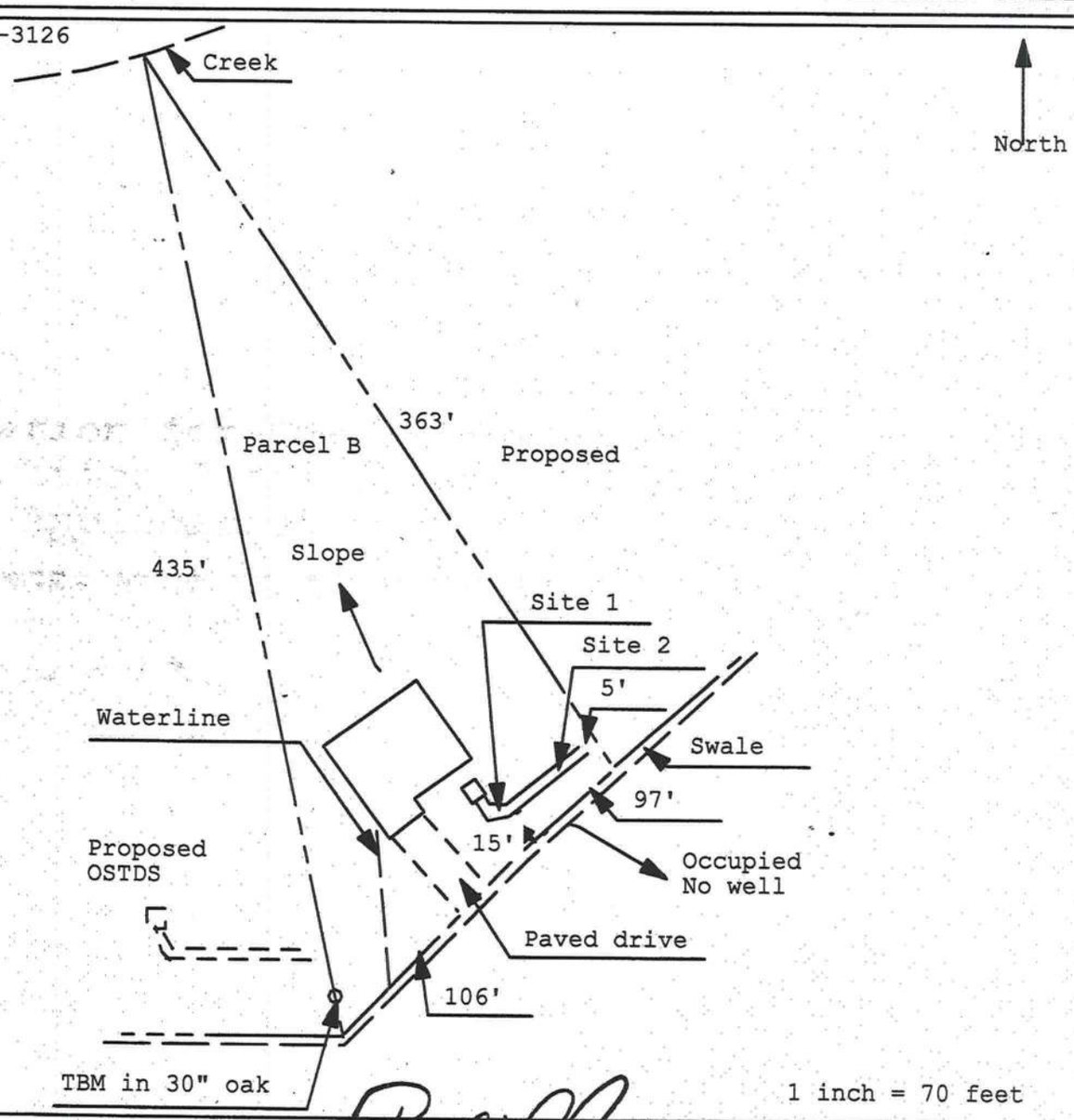
**NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is not a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStar™ designation), your home may qualify for energy efficiency mortgage (EEM) incentives if you obtain a Florida Energy Gauge Rating. Contact the Energy Gauge Hotline at 321/638-1492 or see the Energy Gauge web site at www.fsec.ucf.edu for information and a list of certified Raters. For information about Florida's Energy Efficiency Code For Building Construction, contact the Department of Community Affairs at 850/488-1824.*

EnergyGauge® (Version: FLR1PB v3.22)

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan
Permit Application Number: 05-1038N

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT

SIMQUE/CR 05-3126



Site Plan Submitted By Paul Lloyd **Date** 10/3/05
Plan Approved ____ **Not Approved** ____ **Date** 10/14/05
By [illegible] Columbia **CPHU**

Notes:

0511-12

HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS

DONALD AND MARY HALL
OWNERS

PHONE (386) 752-1884
FAX (386) 755-7022
904 NW MAIN BLVD.
LAKE CITY, FLORIDA 32055

July 12, 2005

NOTICE TO BUILDING DEPT

For _____

Please be advised that due to the new building codes we will use a large capacity diaphragm tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphragm tank is used then we will install a cycle stop valve which will produce the same results. All wells will have a submersible pump and diaphragm tank combination that will be sufficient for each situation.

If you have any questions please feel free to call our office anytime.

Thank you,

Donald D. Hall
DDH/rb

From: The Columbia County Building Department
Plans Review
135 NE Hernando Av.
P. O Box 1529
Lake City Florida, 32056-1529

Reference to: Build permit application Number: 0511-12

Simque Homes Owner Simque Homes 193 SE Carob Glen (Parcel B Parcel ID. # 03-4S-17-07571-000)

On the date of November 8, 2005 application 0511-12 and plans for construction of a single family dwelling were reviewed and the following information or alteration to the plans will be required to continue processing this application. If you should have any question please contact the above address, or contact phone number (386) 758-1163 or fax any information to (386) 754-7088.

Please include application number 0511-12 when making reference to this application.

1. Application 0511-12 which was filed with the building department on the date of November 2, 2005 will be reviewed under the Florida Building Code 2004. The Wind Load design by Mr. Mark Disosway was design under the Florida Building Code 2001. The wind Load design should reflect the code sections of the Florida Building Code 2004 that relate to wind Load design code requirements.

2. Please submit a letter from your well contractor providing information for the potable water well to include the following equipment, size of pump motor, size of pressure tank and cycle stop valve if used.

3. Please verify if the window over the tub area in bathroom two will comply with R308.4 Hazardous locations of the Florida Residential Code 2004. Glazing in doors and enclosures for hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers. Glazing

in any part of a building wall enclosing these compartments where the bottom exposed edge of the glazing is less than 60 inches (1524 mm) measured vertically above any standing or walking surface.

4. Show compliance with the FRC-2004 section R309: Garages and Carports: R309.1: Opening protection. Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 13/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 13/8 inches (35 mm) thick, or 20-minute fire-rated doors. R309.1.1 Duct penetration: Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage. R309.2 Separation required: The garage shall be separated from the residence and its attic area by not less than ½-inch (12.7 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the structure supporting the separation shall also be protected by not less than ½-inch (12.7 mm) gypsum board or equivalent.

Proof of Ownership

Thank you,

Joe Haltiwanger
Plan Examiner
Columbia County Building Department

an un, rar, or a building wall enclosing these compartments where the bottom exposed edge of the planing is less than 30 inches (762 mm) measured vertically above any walking or walking surface.

1. Shall comply with the IRC-2009 Section R310 Emergency Escape and Rescue Openings. R310.1 Operating provisions. Emergency escape and rescue openings shall be provided in every sleeping room. It shall not be permitted. Exception: Basements where the garage and residential occupancy are separated by a fire-resistive assembly. Exception: Basements with a ceiling height of less than 80 inches (2032 mm) shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors. R310.1.1 Door penetration. Exception: In single and multiple occupancy the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum 5/8 inch (16 mm) sheet rock or other approved material and shall have no openings into the garage. R310.2 Separation required. The garage shall be separated from the residence and its attic area by not less than 5/8 inch (15.9 mm) gypsum board applied to the garage side. Garages beneath habitable rooms shall be separated from all habitable rooms above by not less than 5/8-inch (15.9 mm) Type X gypsum board or equivalent. Where the separation is a floor-ceiling assembly, the supporting construction shall also be protected by not less than 5/8-inch (15.9 mm) gypsum board or equivalent.

Thank you.

Joe Hallowell
Plan Examiner
Columbia County Building Department

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000000905

DATE 12/02/2005 PARCEL ID # 03-4S-17-07571-000

APPLICANT MELANIE RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER AARON SIMQUE HOMES PHONE 755.0841

ADDRESS 193 SE CAROB GLEN LAKE CITY FL 32025

CONTRACTOR AARON SIMQUE PHONE 386.755.0841

LOCATION OF PROPERTY 90-E TO SR 100,TR TO C-245,TR TO PLANT STREET,TR TO GOLDIE WAY,TL TO CAROB GLEN,TR 5TH LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PARCEL "B"

SIGNATURE Melanie Roder

INSTALLATION REQUIREMENTS

[X] Culvert size will be 18 inches in diameter with a total lenght of 32 feet, leaving 24 feet of driving surface. Both ends will be mitered 4 foot with a 4 : 1 slope and poured with a 4 inch thick reinforced concrete slab.

INSTALLATION NOTE: Turnouts will be required as follows:
a) a majority of the current and existing driveway turnouts are paved, or;
b) the driveway to be served will be paved or formed with concrete.
Turnouts shall be concrete or paved a minimum of 12 feet wide or the width of the concrete or paved driveway, whichever is greater. The width shall conform to the current and existing paved or concreted turnouts.

[ ] Culvert installation shall conform to the approved site plan standards.

[ ] Department of Transportation Permit installation approved standards.

[ ] Other _____

ALL PROPER SAFETY REQUIREMENTS SHOULD BE FOLLOWED DURING THE INSTALATION OF THE CULVERT.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

Amount Paid 25.00

COLUMBIA COUNTY · GATEWAY TO FLORIDA

Aaron Simque Homes Parcel "B" Suzanne S/D

COLUMBIA COUNTY BUILDING DEPARTMENT

RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST FOR FLORIDA BUILDING CODE 2001
ONE (1) AND TWO (2) FAMILY DWELLINGS

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

EFFECTIVE MARCH 1, 2002

ALL BUILDING PLANS MUST INDICATE THE FOLLOWING ITEMS AND INDICATE COMPLIANCE WITH CHAPTER 1606 OF THE FLORIDA BUILDING CODE 2001 BY PROVIDING CALCULATIONS AND DETAILS THAT HAVE THE SEAL AND SIGNATURE OF A CERTIFIED ARCHITECT OR ENGINEER REGISTERED IN THE STATE OF FLORIDA, OR ALTERNATE METHODOLOGIES, APPROVED BY THE STATE OF FLORIDA BUILDING COMMISSION FOR ONE-AND-TWO FAMILY DWELLINGS. FOR DESIGN PURPOSES THE FOLLOWING BASIC WIND SPEED AS PER FIGURE 1606 SHALL BE USED.

WIND SPEED LINE SHALL BE DEFINED AS FOLLOWS: THE CENTERLINE OF INTERSTATE 75.

1. ALL BUILDINGS CONSTRUCTED EAST OF SAID LINE SHALL BE ------- 100 MPH
2. ALL BUILDINGS CONSTRUCTED WEST OF SAID LINE SHALL BE -------110 MPH
3. NO AREA IN COLUMBIA COUNTY IS IN A WIND BORNE DEBRIS REGION

APPLICANT – PLEASE CHECK ALL APPLICABLE BOXES BEFORE SUBMITTAL

GENERAL REQUIREMENTS: Two (2) complete sets of plans containing the following:

Applicant	Plans Examiner	
☑	☑	All drawings must be clear, concise and drawn to scale ("Optional " details that are not used shall be marked void or crossed off). Square footage of different areas shall be shown on plans.
☑	☑	Designers name and signature on document (FBC 104.2.1). If licensed architect or engineer, official seal shall be affixed.
☑	☑	**Site Plan including:** NOT Right a) Dimensions of lot b) Dimensions of building set backs c) Location of all other buildings on lot, well and septic tank if applicable, and all utility easements. d) Provide a full legal description of property.
☑	☑	**Wind-load Engineering Summary, calculations and any details required** a) Plans or specifications must state compliance with FBC Section 1606 b) The following information must be shown as per section 1606.1.7 FBC a. Basic wind speed (MPH) b. Wind importance factor (I) and building category c. Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated d. The applicable internal pressure coefficient e. Components and Cladding. The design wind pressure in terms of psf (kN/m²), to be used for the design of exterior component and cladding materials not specifally designed by the registered design professional
		See NOTE 1
☑	☑	**Elevations including:**
☑	☑	a) All sides
☑	☑	b) Roof pitch
☑	☑	c) Overhang dimensions and detail with attic ventilation
☑	☑	d) Location, size and height above roof of chimneys
☑	☑	e) Location and size of skylights
☑	☑	f) Building height
☑	☑	e) Number of stories

Floor Plan including:

a) Rooms labeled and dimensioned

b) Shear walls

c) Windows and doors (including garage doors) showing size, mfg., approval listing and attachment specs. (FBC 1707) and safety glazing where needed (egress windows in bedrooms to be shown)

d) Fireplaces (gas appliance) (vented or non-vented) or wood burning with hearth

e) Stairs with dimensions (width, tread and riser) and details of guardrails and handrails

f) Must show and identify accessibility requirements (accesssable bathroom)

Foundation Plan including:

a) Location of all load-bearing wall with required footings indicated as standard Or monolithic and dimensions and reinforcing

b) All posts and/or column footing including size and reinforcing

c) Any special support required by soil analysis such as piling

d) Location of any vertical steel

Roof System:

a) Truss package including:

1. Truss layout and truss details signed and sealed by Fl. Pro. Eng.
2. Roof assembly (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

b) Conventional Framing Layout including:

1. Rafter size, species and spacing
2. Attachment to wall and uplift
3. Ridge beam sized and valley framing and support details
4. Roof assembly (FBC 104.2.1 Roofing systems, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)

Wall Sections including:

a) Masonry wall

1. All materials making up wall
2. Block size and mortar type with size and spacing of reinforcement
3. Lintel, tie-beam sizes and reinforcement
4. Gable ends with rake beams showing reinforcement or gable truss and wall bracing details
5. All required connectors with uplift rating and required number and size of fasteners for continuous tie from roof to foundation
6. Roof assembly shown here or on roof system detail (FBC 104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with resistance rating)
7. Fire resistant construction (if required)
8. Fireproofing requirements
9. Shoe type of termite treatment (termiticide or alternative method)
10. Slab on grade
    a. Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
    b. Must show control joints, synthetic fiber reinforcement or Welded fire fabric reinforcement and supports
11. Indicate where pressure treated wood will be placed
12. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

b) Wood frame wall

1. All materials making up wall
2. Size and species of studs
3. Sheathing size, type and nailing schedule
4. Headers sized
5. Gable end showing balloon framing detail or gable truss and wall hinge bracing detail
6. All required fasteners for continuous tie from roof to foundation (truss anchors, straps, anchor bolts and washers)
7. Roof assembly shown here or on roof system detail (FBC104.2.1 Roofing system, materials, manufacturer, fastening requirements and product evaluation with wind resistance rating)
8. Fire resistant construction (if applicable)
9. Fireproofing requirements
10. Show type of termite treatment (termiticide or alternative method)
11. Slab on grade
    a. Vapor retarder (6Mil. Polyethylene with joints lapped 6 inches and sealed
    b. Must show control joints, synthetic fiber reinforcement or welded wire fabric reinforcement and supports
12. Indicate where pressure treated wood will be placed
13. Provide insulation R value for the following:
    a. Attic space
    b. Exterior wall cavity
    c. Crawl space (if applicable)

c) Metal frame wall and roof (designed, signed and sealed by Florida Prof. Engineer or Architect)

Floor Framing System:

a) Floor truss package including layout and details, signed and sealed by Florida Registered Professional Engineer

b) Floor joist size and spacing

c) Girder size and spacing

d) Attachment of joist to girder

e) Wind load requirements where applicable

Plumbing Fixture layout

Electrical layout including:

a) Switches, outlets/receptacles, lighting and all required GFCI outlets identified

b) Ceiling fans

c) Smoke detectors

d) Service panel and sub-panel size and location(s)

e) Meter location with type of service entrance (overhead or underground)

f) Appliances and HVAC equipment

HVAC information

a) Manual J sizing equipment or equivalent computation

b) Exhaust fans in bathroom

Energy Calculations (dimensions shall match plans)

Gas System Type (LP or Natural) Location and BTU demand of equipment

Disclosure Statement for Owner Builders

Notice Of Commencement

Private Potable Water

a) Size of pump motor

b) Size of pressure tank

c) Cycle stop valve if used

SEE NOTE 2

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.

2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.

3. Renewals of Acceptance will not be considered if:
   a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
   b. The product is no longer the same product (identical) as the one originally approved.
   c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
   d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.

4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.

5. Any of the following shall also be grounds for removal of this Acceptance:
   a. Unsatisfactory performance of this product or process.
   b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.

6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.

7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.

8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

Manuel Perez

Manuel Perez, P.E., Product Control Examiner
Product Control Division

Premdor Entry Systems

ACCEPTANCE No.: 01-0314.18

APPROVED : JUN 05 2001

EXPIRES : April 02, 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. **SCOPE**

1.1 This renews the Notice of Acceptance No. 00-0321.20 which was issued on April 28, 2000. It approves a residential insulated door, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. **PRODUCT DESCRIPTION**

2.1 The Series Entergy 6-8 S-W/E Inswing Opaque Single Residential Insulated Steel Door with Sidelites- Impact Resistant Door Slab Only and its components shall be constructed in strict compliance with the following documents: Drawing No 31-1020-EW-1, Sheets 1 through 6 of 6, titled "Premdor (Entergy Brand) Wood Edge Single Door in Wood Frames with a Bumper Threshold (Inswing)," prepared by manufacturer, dated 7/29/97 with revision C dated 01/15/01, bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. **LIMITATIONS**

3.1 This approval applies to single unit applications of single door only, as shown in approved drawings.

3.2 Unit shall be installed only at locations protected by a canopy or overhang such that the angle between the edge of canopy or overhang to sill is less than 45 degrees. Unless unit is installed in non-habitable areas where the unit and the area are designed to accept water infiltration.

4. **INSTALLATION**

4.1 The residential insulated steel door and its components shall be installed in strict compliance with the approved drawings.

4.2 Hurricane protection system (shutters):

4.2.1 Door: the installation of this unit will not require a hurricane protection system.

4.2.2 Sidelite: the installation of this unit will require a hurricane protection system.

5. **LABELING**

5.1 Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved".

6. **BUILDING PERMIT REQUIREMENTS**

6.1 Application for building permit shall be accompanied by copies of the following:

6.1.1 This Notice of Acceptance

6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

Manuel Perez

Manuel Perez, P.E. Product Control Examiner
Product Control Division

I

AAMA/NWWDA 101/I.S.2-97
TEST REPORT SUMMARY

Rendered to:

MI HOME PRODUCTS, INC.

SERIES/MODEL: 650 Flat
TYPE: Aluminum Single Hung Window

Title of Test	Results
Rating	H-R40.52 x 72
Overall Design Pressure	+45.0 psf -47.2 psf
Operating Force	11 lb max.
Air Infiltration	0.13 cfm/ft²
Water Resistance	6.00 psf
Structural Test Pressure	+67.5 psf -70.8 psf
Deglazing	Passed
Forced Entry Resistance	Grade 10

Reference should be made to Report No. 01-41134.01 dated 03/26/02 for complete test specimen description and data.

For ARCHITECTURAL TESTING, INC.

Mark A. Hess, Technician

MAH:mb

ALLEN R. REEVES
CERTIFICATE NO. 11254
STATE OF FLORIDA
PROFESSIONAL ENGINEER

1 APRIL 2002

II

Architectural Testing

AAMA/NWWDA 101/I.S.2-97 TEST REPORT

Rendered to

MI HOME PRODUCTS, INC.
650 West Market Street
P.O. Box 370
Gratz, Pennsylvania 17030-0370

Report No: 01-41134.01
Test Date: 03/07/02
Report Date: 03/26/02
Expiration Date: 03/07/06

Project Summary: Architectural Testing, Inc. (ATI) was contracted by MI Home Products, Inc. to perform tests on Series/Model 650 Fin, aluminum single hung window at their facility located in Elizabethville, Pennsylvania. The samples tested successfully met the performance requirements for a H-R40 52 x 72 rating.

Test Specification: The test specimen was evaluated in accordance with AAMA/NWWDA 101/I.S.2-97, *Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors.*

Test Specimen Description:

Series/Model: 650 Fin

Type: Aluminum Single Hung Window

Overall Size: 4' 4-1/4" wide by 6' 0-3/8" high

Active Sash Size: 4' 1-3/4" wide by 3' 0-5/8" high

Daylight Opening Size: 3' 11-3/8" wide by 2' 9-1/2" high

Screen Size: 4' 0-1/4" wide by 2' 11-1/8" high

Finish: All aluminum was white.

Glazing Details: The active and fixed lites utilized 5/8" thick, sealed insulating glass constructed from two sheets of 1/8" thick, clear annealed glass and a metal reinforced butyl spacer system. The active sash was channel glazed utilizing a flexible vinyl wraparound gasket. The fixed lite was interior glazed against double-sided adhesive foam tape and secured with PVC snap-in glazing beads.

130 Derry Court
York, PA 17402-9405
phone: 717.764.7700
fax: 717.764.4129
www.archtest.com

Allan N. Reeves
1 APRIL 2002

REEVES LICENSE No. 12384 STATE OF FLORIDA PROFESSIONAL ENGINEER

III

Test Specimen Description: (Continued)

Weatherstripping:

Description	Quantity	Location
0.230" high by 0.270" backed polypile with center fin	1 Row	Fixed meeting rail
0.250" high by 0.187" backed polypile with center fin	2 Rows	Active sash stiles
1/2" x 1/2" dust plug	4 Pieces	Active sash, top and bottom of stiles
1/4" foam-filled vinyl bulb seal	1 Row	Active sash, bottom rail

Frame Construction: The frame was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1" screws through the head and all into each jamb screw boss. End caps were utilized on the ends of the fixed meeting rail and secured with two 1-1/4" screws per cap. Meeting rail was secured to the frame utilizing two 1-1/4" screws.

Sash Construction: The sash was constructed of extruded aluminum with coped, butted, and sealed corners fastened with two #8 x 1-1/2" screws through the rails into each jamb screw boss.

Screen Construction: The screen was constructed from roll-formed aluminum with keyed corners. The fiberglass mesh was secured with a flexible spline.

Hardware:

Description	Quantity	Location
Metal cam lock with keeper		Midspan, active meeting rail with keeper adjacent on fixed meeting rail
Plastic tilt latch	2	Active sash, meeting rail ends
Metal tilt pin	2	Active sash, bottom rail ends
Balance assembly	2	One in each jamb
Screen plunger	2	4" from rail ends on top rail

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1 APRIL 2002

IV

Test Specimen Description: (Continued)

Drainage: Sloped sill

Reinforcement: No reinforcement was utilized.

Installation: The test specimen was installed into a 2 x 8 #2 Spruce-Pine-Fir wood test buck with #8 x 1-5/8" drywall screws every 8" on center around the nail fin. Polyurethane was used as a sealant under the nail fin and around the exterior perimeter.

Test Results:

The results are tabulated as follows:

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.1	Operating Force	11 lbs	30 lbs max
	Air Infiltration (ASTM E 283-91) @ 1.57 psf (25 mph)	0.13 cfm/ft^2	0.3 cfm/ft^2 max

Note #1: The tested specimen meets the performance levels specified in AAMA/NWWDA 101/I.S. 2-97 for air infiltration.

	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 2.86 psf	No leakage	No leakage
2.1.4.1	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 25.9 psf (positive)	0.42"*	0.26" max.
	@ 34.7 psf (negative)	0.43"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

2.1.4.2	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 38.9 psf (positive)	0.02"	0.18" max.
	@ 52.1 psf (negative)	0.02"	0.18" max.

Allen H. Reeves
1 APRIL 2002

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Test Specimen Description: (Continued)

Paragraph	Title of Test - Test Method	Results	Allowed
2.2.1.6.2	Deglazing Test (ASTM E 987)		
	In operating direction at 70 lbs		
	Meeting rail	0.12"/25%	0.50"/100%
	Bottom rail	0.12"/25%	0.50"/100%
	In remaining direction at 50 lbs		
	Left stile	0.06"/12%	0.50"/100%
	Right stile	0.06"/12%	0.50"/100%
	Forced Entry Resistance (ASTM F 588-97)		
	Type: A		
	Grade: 10		
	Lock Manipulation Test	No entry	No entry
	Tests A1 through A5	No entry	No entry
	Test A7	No entry	No entry
	Lock Manipulation Test	No entry	No entry
Optional Performance			
4.3	Water Resistance (ASTM E 547-00) (with and without screen) WTP = 6.00 psf	No leakage	No leakage
	Uniform Load Deflection (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 33 seconds)		
	@ 45.0 psf (positive)	0.47"*	0.26" max.
	@ 47.2 psf (negative)	0.46"*	0.26" max.

**Exceeds L/175 for deflection, but passes all other test requirements.*

	Uniform Load Structural (ASTM E 330-97) (Measurements reported were taken on the meeting rail) (Loads were held for 10 seconds)		
	@ 67.5 psf (positive)	0.05"	0.18" max.
	@ 70.8 psf (negative)	0.05"	0.18" max.

Allen N. Reeves
1 APRIL 2002

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PROFESSIONAL ENGINEER

VI

Detailed drawings, representative samples of the test specimen, and a copy of this report will be retained by ATI for a period of four years. The above results were secured by using the designated test methods and they indicate compliance with the performance requirements of the above referenced specification. This report does not constitute certification of this product, which may only be granted by the certification program administrator.

For ARCHITECTURAL TESTING, INC:

Mark A. Hess
Technician

Allen N. Reeves, P.E.
Director - Engineering Services
1 APRIL 2002

MAH:nlb
01-41134.01

ALLEN N. REEVES
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

TAMKO®
ROOFING PRODUCTS

FEB - 4 RECD

January 31, 2002

TO: OUR FLORIDA CUSTOMERS:

Effective February 1, 2002, the following TAMKO shingles, as manufactured at TAMKO's Tuscaloosa, Alabama, facility, comply with ASTM D-3161, Type I modified to 110 mph. Testing was conducted using four nails per shingle. These shingles also comply with Florida Building Code TAS 100 for wind driven rain.

- Glass-Seal AR
- Elite Glass-Seal AR
- ASTM Heritage 30 AR (formerly ASTM Heritage 25 AR)
- Heritage 40 AR (formerly Heritage 30 AR)
- Heritage 50 AR (formerly Heritage 40 AR)

All testing was performed by Florida State certified independent labs.

Please direct all questions to TAMKO's Technical Services Department at 1-800-641-4691.

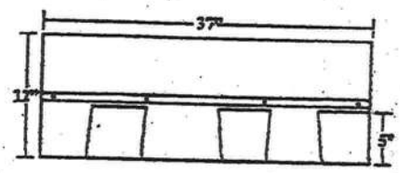
TAMKO Roofing Products, Inc.

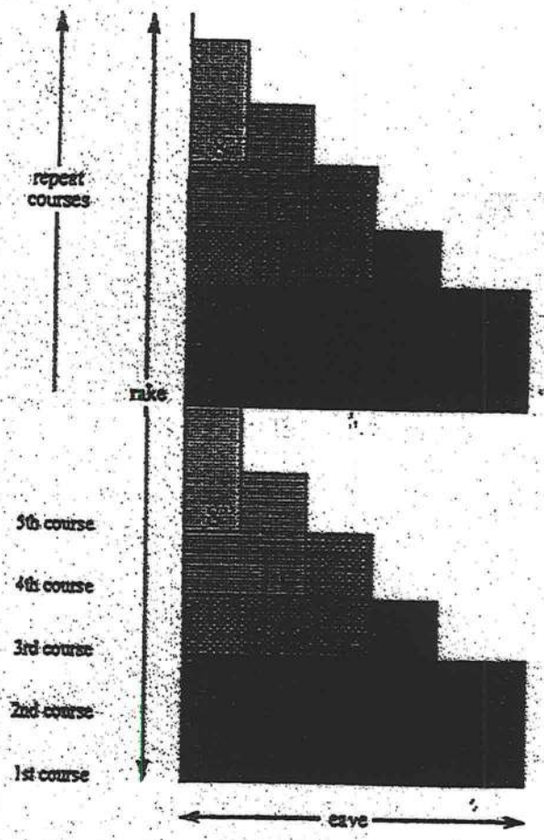
CORPORATE HEADQUARTERS
220 W. FOURTH STREET P.O. BOX 1404 JOPLIN, MO 64802-1404 800-641-4691 FAX 800-841-1925

TAMKO
ROOFING PRODUCTS

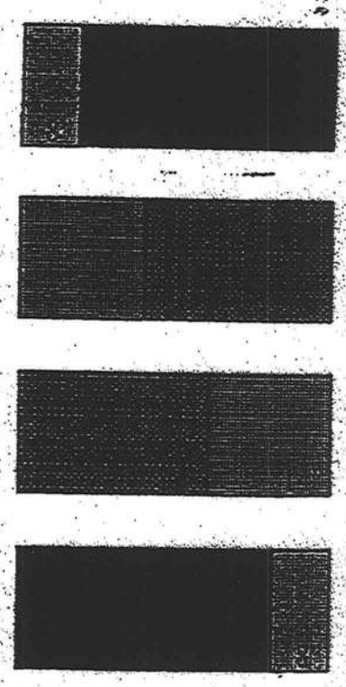
Application Instructions For Heritage® 25 Series Shingles

SPECIFICATIONS (APPROX.)	
Length	37"
Width	12"
Bundles per Sq.	3
Shingles per Sq.	78
Shingles per Bundle	26
Coverage per Sq. (Sq. Ft.)	100
Exposure	5"





The 4 cuts in the first 10 courses:



In the first 10 courses, there are 4 cuts and no waste.

When you reach the other side of the roof, whatever has to be trimmed off can be used in the field of roofing.

For additional application information consult the application instructions printed on the product package.

NOTE: These application instructions apply only to Heritage 25 and Heritage 25 AR shingles.

TAMKO
ROOFING PRODUCTS

Application Instructions for

• Glass-Seal • Elite Glass-Seal®
• Glass-Seal AR • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.
THIS PRODUCT IS COVERED BY A LIMITED WARRANTY, THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.
IN COLD WEATHER (BELOW 40°F), CARE MUST BE TAKEN TO AVOID DAMAGE TO THE EDGES AND CORNERS OF THE SHINGLES.

IMPORTANT: It is not necessary to remove the plastic strip from the back of the shingles.

1. ROOF DECK

These shingles are for application to roof decks capable of receiving and retaining fasteners, and to inclines of not less than 2 in. per foot. For roofs having pitches 2 in. per foot to less than 4 in. per foot, refer to special instructions titled "Low Slope Application". Shingles must be applied properly. TAMKO assumes no responsibility for leaks or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEW ROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and free from warped surfaces. It is recommended that metal drip edges be installed at eaves and rakes.

PLYWOOD: All plywood shall be exterior grade as defined by the American Plywood Association. Plywood shall be a minimum of 3/8 in. thickness and applied in accordance with the recommendations of the American Plywood Association.

SHEATHING BOARDS: Boards shall be well-seasoned tongue-and-groove boards and not over 6 in. nominal width. Boards shall be a 1 in. nominal minimum thickness. Boards shall be properly spaced and nailed.

2. VENTILATION

Inadequate ventilation of attic spaces can cause accumulation of moisture in winter months and a build up of heat in the summer. These conditions can lead to:

1. Vapor Condensation
2. Buckling of shingles due to deck movement.
3. Rotting of wood members.
4. Premature failure of roof.

To insure adequate ventilation and circulation of air, place louvers of sufficient size high in the gable ends and/or install continuous ridge and soffit vents.
FHA minimum property standards require one square foot of net free ventilation area to each 150 square feet of space to be vented, or one square foot per 300 square feet if a vapor barrier is installed on the warm side of the ceiling or if at least one half of the ventilation is provided near the ridge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VENTILATION.

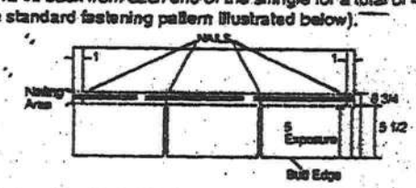
3. FASTENING

NAILS: TAMKO recommends the use of nails as the preferred method of application.
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede the sealing of the adhesive strips on the shingles. The inability to seal down may be compounded by prolonged cold weather conditions and/or blowing dust. In these situations, hand sealing of the shingles is recommended. Shingles must also be fastened according to the fastening instructions described below.

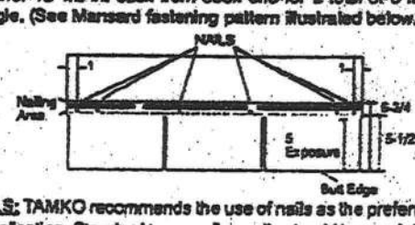
Correct placement of the fasteners is critical to the performance of the shingle. If the fasteners are not placed as shown in the diagram and described below, TAMKO will not be responsible for any shingles blown off or displaced. TAMKO will not be responsible for damage to shingles caused by winds or gusts exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Bureau.

FASTENING PATTERNS: Fasteners must be placed above or below the factory applied sealant in an area between 5-1/2" and 6-3/4" from the butt edge of the shingle. Fasteners should be located horizontally according to the diagram below. Do not nail into the sealant. TAMKO recommends nailing below the sealant whenever possible for greater wind resistance.

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1 in. back from each end and one 12 in. back from each end of the shingle for a total of 4 fasteners. (See standard fastening pattern illustrated below).



2) Mansard or High Wind Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) One fastener 1 in. back from each end and one fastener 10-1/2 in. back from each end and one fastener 13-1/2 in. back from each end for a total of 6 fastener per shingle. (See Mansard fastening pattern illustrated below.)



NAILS: TAMKO recommends the use of nails as the preferred method of application. Standard type roofing nails should be used. Nail shanks should be made of minimum 12-gauge wire, and a minimum head diameter of 3/8 in. Nails should be long enough to penetrate 3/4 in.

(Continued)

with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a 3.25 piece and applied to shingles with a 5 in. exposure, use 5 fasteners per shingle. See Section 3 for the Mansard Fastening Pattern.

5. RE-ROOFING

Before re-roofing, be certain to inspect the roof decks. All plywood shall meet the requirements listed in Section 1.

Nail down or remove curled or broken shingles from the existing roof. Replace all missing shingles with new ones to provide a smooth base. Shingles that are buckled usually indicate warped decking or protruding nails. Hammer down all protruding nails or remove them and refasten in a new location. Remove all drip edge metal and replace with new.

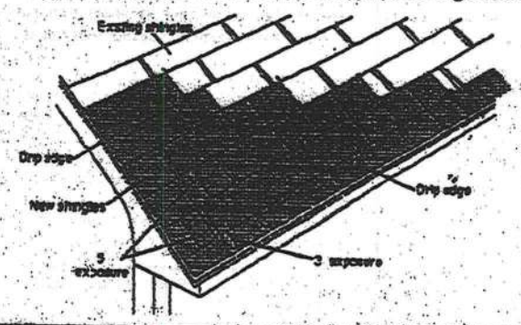
If re-roofing over an existing roof where new flashing is required to protect against ice dams (freeze/thaw cycle of water and/or the backup of water in frozen or clogged gutters), remove the old roofing to a point at least 24 in. beyond the interior wall line and apply TAMKO's Moisture Guard Plus® waterproofing underlayment. Contact TAMKO's Technical Services Department for more information.

The nesting procedure described below is the preferred method for re-roofing over square tab strip shingles with a 5 in. exposure.

Starter Course: Begin by using TAMKO Shingle Starter or by cutting shingles into 5 x 36 inch strips. This is done by removing the 5 in. tabs from the bottom and approximately 2 in. from the top of the shingles so that the remaining portion is the same width as the exposure of the old shingles. Apply the starter piece so that the self-sealing adhesive lies along the eaves and is even with the existing roof. The starter strip should be wide enough to overhang the eaves and carry water into the gutter. Remove 3 in. from the length of the first starter shingle to ensure that the joints from the old roof do not align with the new.

First Course: Cut off approximately 2 in. from the bottom edge of the shingles so that the shingles fit beneath the existing third course and align with the edge of the starter strip. Start the first course with a full 36 in. long shingle and fasten according to the instructions printed in Section 3.

Second and Succeeding Courses: According to the off-set application method you choose to use, remove the appropriate length from the



rake end of the first shingle in each succeeding course. Place the top edge of the new shingle against the butt edge of the old shingles in the courses above. The full width shingle used on the second course will reduce the exposure of the first course to 3 in. The remaining courses will automatically have a 5 in. exposure.

6. VALLEY APPLICATION

Over the shingle underlayment, center a 36 in. wide sheet of TAMKO Nail-Fast® or a minimum 50 lb. roll roofing in the valley. Nail the felt only where necessary to hold it in place and then only nail the outside edges.

IMPORTANT: PRIOR TO INSTALLATION WARM SHINGLES TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES TO FORM VALLEY.

- Apply the first course of shingles along the eaves of one of the intersecting roof planes and across the valley.

Note: For proper flow of water over the trimmed shingle, always start applying the shingles on the roof plane that has the lower slope or less height.

- Extend the end shingle at least 12 in. onto the adjoining roof. Apply succeeding courses in the same manner, extending them across the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
- Use normal shingle fastening methods.

Note: No fastener should be within 6 in. of the valley centerline, and two fasteners should be placed at the end of each shingle crossing the valley.

- To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles and trim a minimum of 2 in. back from the centerline of the valley.

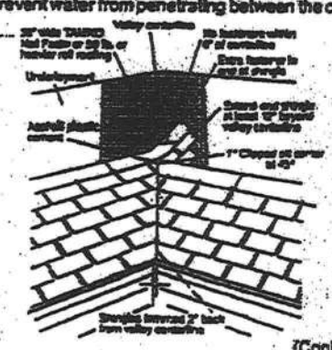
Note: For a neater installation, snap a chalkline over the shingles for guidance.

- Clip the upper corner of each shingle at a 45-degree angle and embed the end of the shingle in a 3 in. wide strip of asphalt plastic cement. This will prevent water from penetrating between the courses by directing it into the valley.

- ***CAUTION:*** *Adhesive must be applied in smooth, thin, even layers.*

Excessive use of adhesive will cause blistering to this product.

TAMKO assumes no responsibility for blistering.



(Continued)

(CONTINUED from Pg. 3)

TAMKO ROOFING PRODUCTS

• Glass-Seal • Glass-Seal AR • Elite Glass-Seal® • Elite Glass-Seal® AR

THREE-TAB ASPHALT SHINGLES

FOR ALTERNATE VALLEY APPLICATION METHODS, PLEASE CONTACT TAMKO'S TECHNICAL SERVICES DEPARTMENT.

10. HIP AND RIDGE FASTENING DETAIL

Apply the shingles with a 5 in. exposure beginning at the bottom of the hip or from the end of the ridge opposite the direction of the prevailing winds. Secure each shingle with one fastener 5-1/2 in. back from the exposed end and 1 in. up from the edge. Do not nail directly into the sealant.

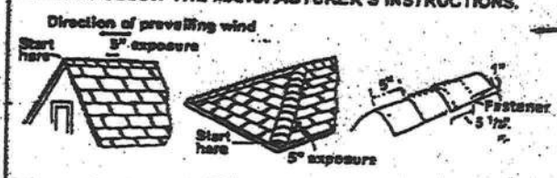
TAMKO recommends the use of TAMKO Hip & Ridge shingle products. Where matching colors are available, it is acceptable to use TAMKO's Glass-Seal or Elite Glass-Seal shingles cut down to 12 in. pieces.

NOTE: AR type shingle products should be used as Hip & Ridge on Glass-Seal AR and Elite Glass-Seal AR shingles.

Fasteners should be 1/4 in. longer than the one used for shingles.

IMPORTANT: PRIOR TO INSTALLATION, CARE NEEDS TO BE TAKEN TO PREVENT DAMAGE WHICH CAN OCCUR WHILE BENDING SHINGLES IN COOL WEATHER.

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO ROOFING PRODUCTS, INC. ASSUMES NO RESPONSIBILITY FOR LEAKS OR OTHER ROOFING DEFECTS RESULTING FROM FAILURE TO FOLLOW THE MANUFACTURER'S INSTRUCTIONS.



THIS PRODUCT IS COVERED BY A LIMITED WARRANTY. THE TERMS OF WHICH ARE PRINTED ON THE WRAPPER.

IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

In this paragraph "You" and "Your" refer to the installer of the shingles and the owner of the building on which these shingles will be installed. This is a legally binding agreement between You and TAMKO Roofing Products, Inc. ("TAMKO"). By opening this bundle You agree: (a) to install the shingles strictly in accordance with the instructions printed on this wrapper; or (b) that shingles which are not installed strictly in accordance with the instructions printed on this wrapper are sold "AS IS" and are not covered by the limited warranty that is also printed on this wrapper, or any other warranty, including, but not limited to (except where prohibited by law) implied warranties of MERCHANTABILITY and FITNESS FOR USE.

Visit Our Web Site at
www.tamko.com

Central District	220 West 4th St., Joplin, MO 64801	800-641-4691
Northeast District	4500 Tamko Dr., Frederick, MD 21701	800-368-2055
Southeast District	2300 35th St., Tuscaloosa, AL 35401	800-228-2656
Southwest District	7910 S. Central Exp., Dallas, TX 75216	800-443-1834
Western District	5300 East 43rd Ave., Denver, CO 80216	800-530-8868

07/01

Willamette Industries, Inc.
Engineered Wood Products

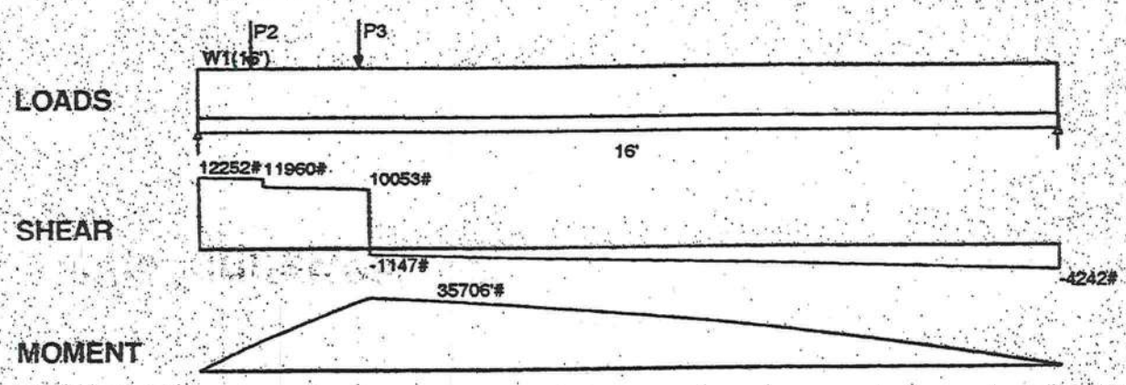
Mark Disosway, FL PE53915

E-Z Calc (v6.2.0-R)

JOB NAME:
LOCATION: FL
JOB NO: 204291IsaacMyersPerk DESIGNER:

05/06/2002
SHEET:

MARK Garage Header Roof Beam
Trib: 5.5 ft. MEMBER SLOPE: 0/12 Input reflects horizontal clear spans.
W1= 220 plf LL = 20 psf DL = 20 psf Duration = 125%
P2= 1440 lbs @ 1 ft. LL = 720 lbs DL = 720 lbs Duration = 125%
P3= 11200 lbs @ 3 ft. LL = 5600 lbs DL = 5600 lbs Duration = 125%
Member Weight = 13.6 plf



Maximum Reactions	Support 1	Support 2
Critical Live Load: (DOL)	6070 (125)	2065 (125)
Dead Load:	6182	2177

	% Allow.	Maximum	Allow.	DOL - Control
Shear: (lbs)	90%	11960	13300	125% - All Loads
Positive Moment: (ft-lbs)	92%	35706	38922	125% - All Loads

Deflection	LL	Ratio	TL	Ratio
Span:	0.316	l / 627	0.642	l / 308

EI =2270 x 10^6

***** USE 3.5 x 16 INCH StrucLam(1.9E) *****

Min end bearing = 5 inches. Support bearing length requirements must be checked separately. Continuous lateral support required at top edge. Lateral support required at bearings for bottom edge.

GARAGE DOOR
HDL DETA

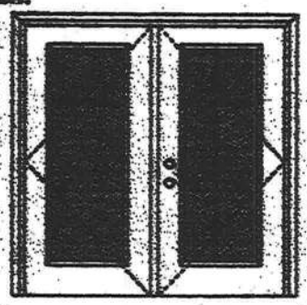
e products noted are intended for interior use, normal temperatures, untreated applications and must be installed in accordance with local building code requirements d Willamette Industries, Inc. recommendations. This calculation reflects the specific design information and product determination for engineered wood products hufactured by Willamette Industries, Inc. The loads, spans and spacings have been provided by others and all information noted should be carefully examined and Vfied for the accuracy and suitability of all design parameters and product selections.

XX
Glazed Outswing Unit

[redacted]

WOOD-EDGE STEEL DOORS

APPROVED ARRANGEMENT:



Note:
Units of other sizes are covered by this report as long as the panels used do not exceed 3'0" x 6'6".

Double Door
Maximum unit size = 6'0" x 6'8"

Design Pressure
+40.5/-40.5
Limited water values special threshold design is used.

Large Missile Impact Resistance
Hurricane protective system (shutters) is REQUIRED.

Actual design pressure and impact resistant requirements for a specific building design and geographic location is determined by ASCE 7-national, state or local building codes specify the edition required.

MINIMUM ASSEMBLY DETAIL:

Compliance requires that minimum assembly details have been followed – see MAD-WL-MA0012-02 and MAD-WL-MA0041-02.

MINIMUM INSTALLATION DETAIL:

Compliance requires that minimum installation details have been followed – see MID-WL-MA0002-02.

APPROVED DOOR STYLES:
1/4 GLASS:

1/2 GLASS:

*This glass kit may also be used in the following door styles: 5-panel; 5-panel with scroll; Eyebrow 5-panel; Eyebrow 5-panel with scroll.

[redacted]

Johnson
Energy Systems

March 25, 2002
Our continuing pursuit of product improvement makes specifications, design and product detail subject to change without notice.

FIBERDOR Fiberglass Quality Doors

Exclusively from
Masonite®
Masonite International Corporation

XX
Glazed Outswing Unit

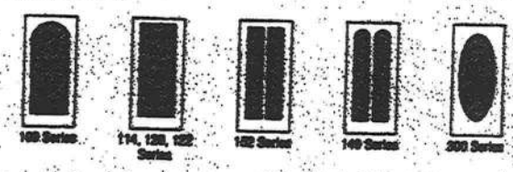
[redacted]

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

3/4 GLASS:

FULL GLASS:



CERTIFIED TEST REPORTS:

NCTL 210-1897-7, 8, 9, 10, 11, 12; NCTL 210-1864-5, 6, 7, 8; NCTL 210-2178-1, 2, 3

Certifying Engineer and License Number: Barry D. Portney, P.E. / 16258.

Unit Tested in Accordance with Miami-Dade BCCO PA202.

Evaluation report NCTL-210-2794-1

Door panels constructed from 26-gauge 0.017" thick steel skins. Both stiles constructed from wood. Top and rails constructed of 0.041" steel. Bottom and rails constructed of 0.021" steel. Interior cavity of slab filled with rigid polyurethane foam core. Slab glazed with insulated glass mounted in a rigid plastic lip fit surround.

Frame constructed of wood with an extruded aluminum bumper threshold.

PRODUCT COMPLIANCE LABELING:

TESTED IN
ACCORDANCE WITH
MIAMI-DADE BCCO PA202

COMPANY NAME
CITY, STATE

To the best of my knowledge and ability the above side-hinged exterior door unit conforms to the requirements of the 2001 Florida Building Code, Chapter 17 (Structural Tests and Inspections).

Kurt L Balthazor

State of Florida, Professional Engineer
Kurt Balthazor, P.E. – License Number 56533

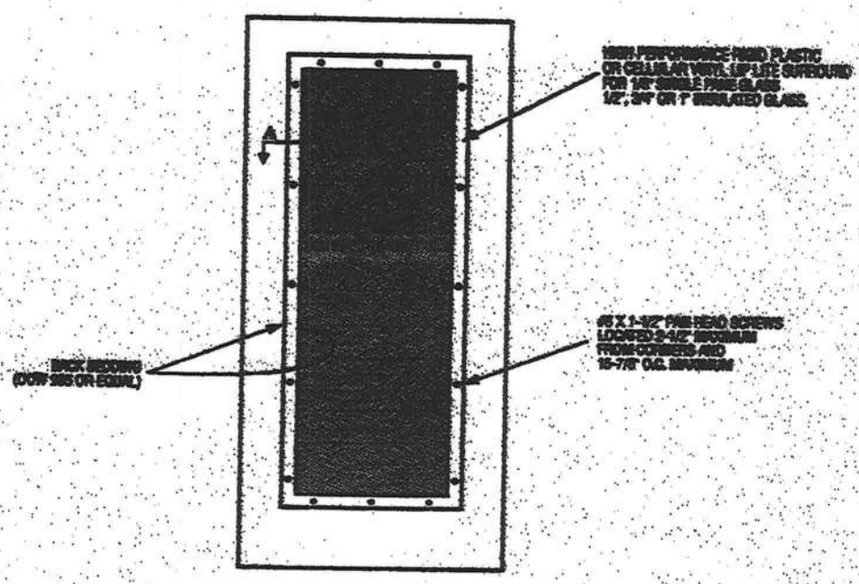
johnson Entry systems

March 20, 2002
Our continuing program of product improvement makes specifications, design and product data subject to change without notice.

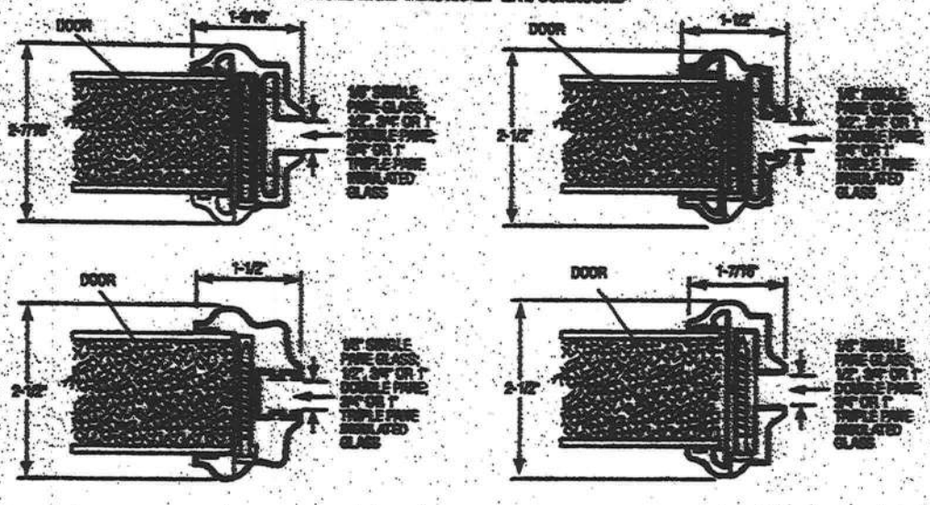
PREMDOR Premium Quality Doors

Exclusively from Masonite®
Masonite International Corporation

GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND

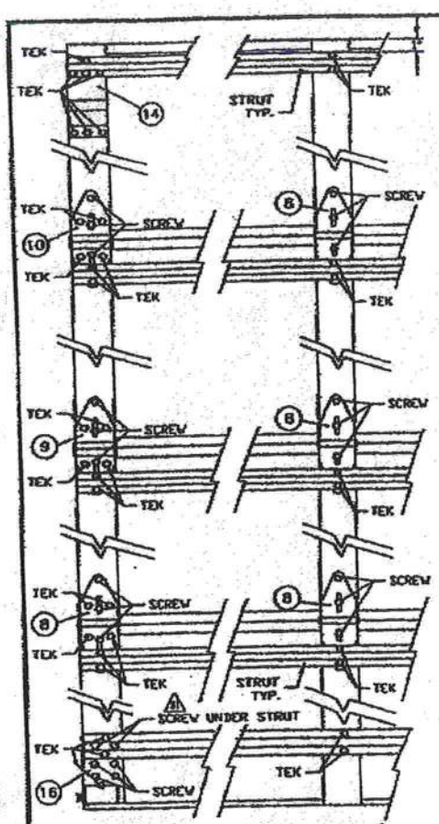


March 29, 2002
Our continuing process of product improvement makes specifications,
design and product subject to change without notice.

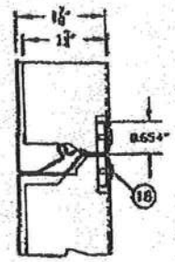
Exclusively from
Masonite®
Masonite International Corporation

REV.	DATE	BY	DESCRIPTION
A	11-27-00	DW	SEE ECN 836
A	12-1-00	DW	SEE ECN 836

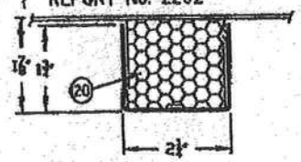
LISTED
SBCCI PST & ESI
REPORT No. 2202



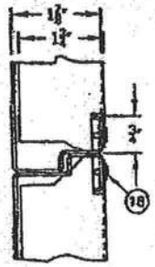
FASTENER ARRANGEMENT



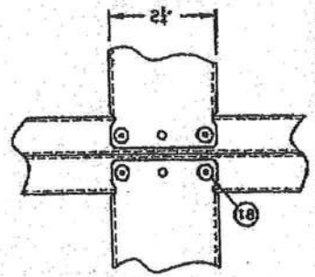
SEC D-D
PAN ATTACHMENT TO STILE (OPTIONAL)



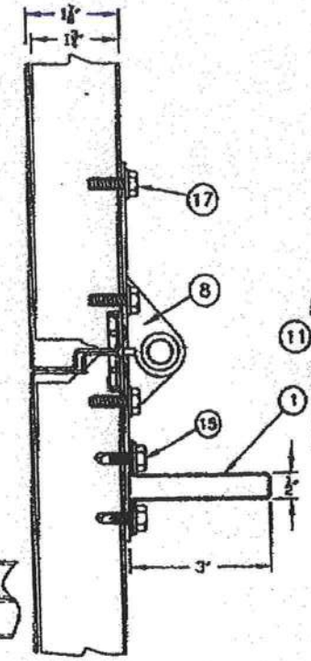
SEC G-G
CENTER STILE
20 GA. GALVANIZED



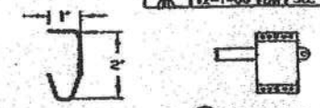
SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)



PAN ATTACHMENT TO STILE

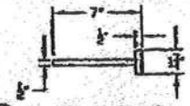


SEC A-A



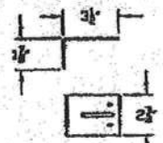
TRACK
16 GA. (.055 MIN.)

(12) SIDE LOCK



(11) ROLLER 10 BALLS.

5-3"x20 GA. 80 KSI YIELD STRENGTH HEMMED STRUT APPLIED WITH 2 TEK SCREWS PER HINGE OR STILE LOCATION (14 PER STRUT, MINIMUM)

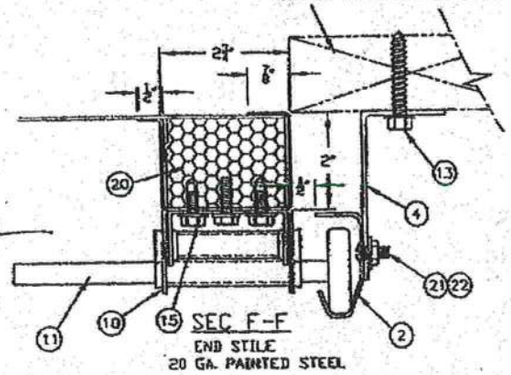


(4) #6 JAMB BRACKET

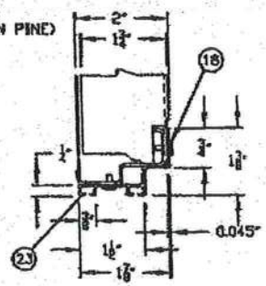
(17) 1/4-20 X 3/4 HEX WASHERHEAD SCREW

(15) 1/4-20 X 3/4 HWH TEK SCREW WITH #2 REDUCED POINT

2x6 PRESSURE TREATED LUMBER (GRADE #2 OR BETTER SOUTHERN PINE)



SEC F-F
END STILE
20 GA. PAINTED STEEL



SEC E-E

ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1391	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4044	1/4"-20 SERRATED FLANGE NUT
20		LOW DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 5/32" STEEL
17	4299	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	1399AUR	BOTTOM ROLLER BRACKET
15	0138	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	4875	TOP SUPPORT BRACKET
13	4043	5/16" X 1-5/8" LAG SCREW
12	4710	SIDE LOCK
11	4306	LONG STEM ROLLER 2"
10	4203	ROLLER CARRIER HINGE #3 (14 GA)
9	4202	ROLLER CARRIER HINGE #2 (14 GA)
8	4201	ROLLER CARRIER HINGE #1 (14 GA)
7		COUNTER BALANCE (TORSION BAR & SPRINGS)
6		HORIZONTAL TRACK & ANGLE (16 GA)
5		VERTICAL FLAG ANGLE
4	4585-6	TRACK BRACKET #6 (12 GA)
3		
2		VERTICAL TRACK (16 GA)
1		3" HEMMED STRUT(20 GA) MIN. YIELD STR. 80KSI

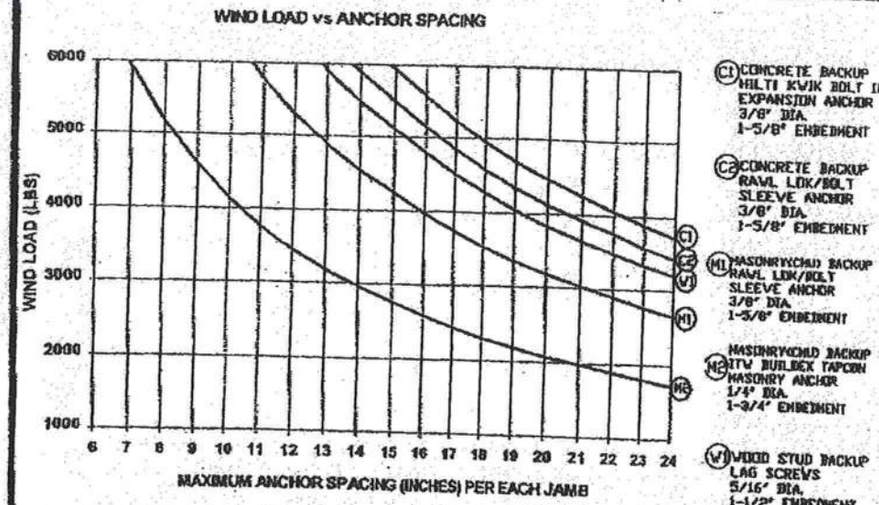
GADCO
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE | APPROVED BY: | DRAWN BY: D. WICKMAN
DATE: 11-7-00 | REVISED: (B) 12-1-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR-WINDLOAD ±20 PSF

PAGE 2 OF 2 | DRAWING NUMBER: W13228-2

NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER NASSIM A. REYVAN

The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.



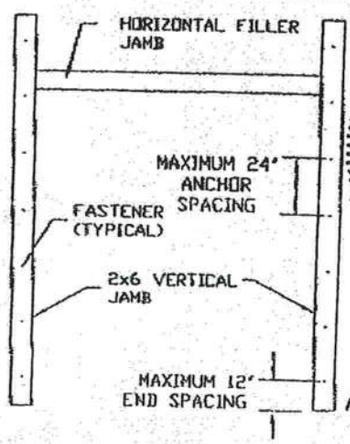
DESIGN LOAD $\frac{(LBS)}{FT^2}$ X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

EXAMPLE

$\frac{30\ LBS}{FT^2}$ X (16 FT WIDE X 8 FT HIGH) = 3840 LBS

- C1 USE 22" SPACING
- C2 USE 21" SPACING
- W1 USE 19" SPACING
- M1 USE 16" SPACING
- M2 USE 10" SPACING

SEE NOTE 11 FOR ADDITIONAL REQUIRED 2X6 WOOD JAMB ANCHORS



NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER NASER R KEYYAN

NASER R KEYYAN LICENSE NO. 53774 STATE OF FLORIDA PROFESSIONAL ENGINEER

3/8/2002

2x6 JAMB TO SUPPORTING STRUCTURE ATTACHMENT

2x6 PRESSURE TREATED (GRADE #2 OR BETTER SOUTHERN PINE) WOOD JAMB SHALL BE ANCHORED TO BUILDING WOOD FRAME, GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS.

NOTES:

1) ALL DOOR OPENING SURROUNDING STRUCTURE TO BE DESIGNED BY REGISTERED ENGINEER OR ARCHITECT WITH DUE CONSIDERATION GIVEN TO INSTALLATIONS USING CENTER "HURRICANE" POSTS.

2) ALL DOOR OPENING STRUCTURE AND FASTENERS TO COMPLY WITH ALL APPLICABLE CODES INCLUDING SBCCI "STANDARD FOR HURRICANE RESISTANT RESIDENTIAL CONSTRUCTION: SSTD 10," CURRENT EDITION.

3) ALL FASTENERS TO BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, INSTRUCTIONS AND RECOMMENDATIONS.

4) WOOD FRAME BUILDINGS: STUDS AT EACH SIDE OF DOOR OPENING SHALL BE PROPERLY DESIGNED, CONNECTED, ANCHORED AND SHALL CONSIST OF A MINIMUM OF THREE (3) LAMINATIONS OF 2X6 PRESSURE TREATED SOUTHERN PINE (#2 GRADE OR BETTER) WALL STUDS CONTINUOUS FROM FOOTING TO DOUBLE TOP PLATE.

5) REINFORCED CMU OR CONCRETE: 2X6 WOOD JAMB SHALL BE ANCHORED TO SOLIDLY GROUTED AND REINFORCED CONCRETE MASONRY UNIT (CMU) WALLS OR COLUMNS, OR REINFORCED CONCRETE COLUMNS. ANCHOR SPACING AND EMBEDMENT IS BASED ON CONCRETE MASONRY UNITS COMPLYING WITH ASTM C90 WITH A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 2150 PSI; GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI; REINFORCED CONCRETE COLUMNS WITH A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.

6) EMBEDMENTS LISTED ARE THE MINIMUM ALLOWABLE EMBEDMENTS.

7) ANCHORS FOR CONCRETE AND CONCRETE MASONRY UNITS (CMU) SHALL HAVE A MINIMUM 3" EDGE DISTANCE FROM ALL EDGES OF CONCRETE OR CONCRETE MASONRY UNITS. ANCHORS FOR CONCRETE AND CMU SHALL HAVE A MINIMUM SPACING OF 3-3/4"

8) LAG SCREWS SHALL BE CENTERED IN ONE OF THE 1-1/2" DIMENSION FACES OF THE TRIPLE 2X6 WALL STUDS.

9) WASHERS ARE REQUIRED ON ALL FASTENERS.

10) THE WIND LOAD VS. ANCHOR SPACING CHART IS FOR A MAXIMUM DOOR SIZE OF 18' X 8' AT A MAXIMUM 42 PSF DESIGN WIND LOAD.

11) FOR THE UPPER THREE INDIVIDUAL STEEL JAMB BRACKETS, BRACKETS SHALL BE CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS. IF THE STEEL JAMB BRACKET IS NOT CENTERED BETWEEN THE TWO CLOSEST 2X6 WOOD JAMB ANCHORS, ADD AN ADDITIONAL 2X6 WOOD JAMB ANCHOR NEAR THAT STEEL BRACKET TO INSURE THAT THE LOAD FROM THE STEEL BRACKET IS EQUALLY TRANSFERRED TO TWO WOOD JAMB ANCHORS.

GADCO®
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DW
DATE: 8-30-99		REVISED:
DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS		
	MASTER DRAWING NUMBER: A10560	DRAWING NUMBER

Residential System Sizing Calculation

Summary

Spec House

Lake City, FL 32025-

Project Title:
Aaron Simque Homes - Spec House 1

Class 3 Rating
Registration No. 0
Climate: North

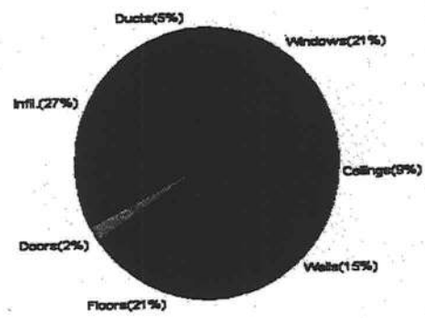
8/31/2005

Location for weather data: Gainesville - User customized: Latitude(29) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (78F) Humidity difference(51gr.)			
Winter design temperature	31 F	Summer design temperature	99 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	39 F	Summer temperature difference	24 F
Total heating load calculation	**25982 Btuh**	**Total cooling load calculation**	**31719 Btuh**
Submitted heating capacity	31000 Btuh	Submitted cooling capacity	31000 Btuh
Submitted as % of calculated	119.3 %	Submitted as % of calculated	97.7 %

WINTER CALCULATIONS

Winter Heating Load (for 1545 sqft)

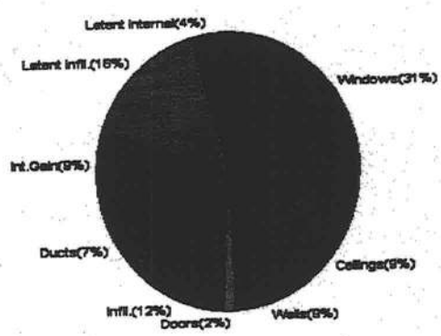
Load component			Load	
Window total	192	sqft	5434	Btuh
Wall total	1331	sqft	3832	Btuh
Door total	38	sqft	536	Btuh
Ceiling total	1889	sqft	2456	Btuh
Floor total	171	ft	5404	Btuh
Infiltration	165	cfm	7084	Btuh
Subtotal			**24745**	**Btuh**
Duct loss			1237	Btuh
TOTAL HEAT LOSS			**25982**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 1545 sqft)

Load component			Load	
Window total	192	sqft	9917	Btuh
Wall total	1331	sqft	2818	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	1889	sqft	2985	Btuh
Floor total			0	Btuh
Infiltration	144	cfm	3814	Btuh
Internal gain			3000	Btuh
Subtotal(sensible)			**23026**	**Btuh**
Duct gain			2303	Btuh
Total sensible gain			**25328**	**Btuh**
Latent gain(infiltration)			5011	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			**6391**	**Btuh**
TOTAL HEAT GAIN			**31719**	**Btuh**



EnergyGauge® System Sizing based on ACCA Manual J.

PREPARED BY: _____

DATE: _____

System Sizing Calculations - Winter

Residential Load - Component Details

Spec House

Lake City, FL 32025-

Project Title:
Aaron Simque Homes - Spec House 1

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (User customized) Winter Temperature Difference: 39.0 F 8/31/2005

Window	Panes/SHGC/Frame/U	Orientation	Area X	HTM=	Load
1	2, Clear, Metal, DEF	W	75.0	28.3	2122 Btuh
2	2, Clear, Metal, DEF	W	40.0	28.3	1132 Btuh
3	2, Clear, Metal, DEF	N	4.0	28.3	113 Btuh
4	2, Clear, Metal, DEF	E	15.0	28.3	424 Btuh
5	2, Clear, Metal, DEF	E	30.0	28.3	849 Btuh
6	2, Clear, Metal, DEF	S	4.0	28.3	113 Btuh
7	2, Clear, Metal, DEF	S	20.0	28.3	566 Btuh
8	2, Clear, Metal, DEF	S	4.0	28.3	113 Btuh
	Window Total		192		5434 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Exterior	13.0	1135	3.1	3518 Btuh
2	Frame - Adjacent	13.0	196	1.6	314 Btuh
	Wall Total		1331		3832 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exter		20	18.3	367 Btuh
2	Insulated - Adjac		18	9.4	169 Btuh
	Door Total		38		536Btuh
Ceilings	Type	R-Value	Area X	HTM=	Load
1	Under Attic	30.0	1889	1.3	2456 Btuh
	Ceiling Total		1889		2456Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Slab-On-Grade Edge Insul	0	171.0 ft(p)	31.6	5404 Btuh
	Floor Total		171		5404 Btuh
Infiltration	Type	ACH X	Building Volume	CFM=	Load
	Natural	0.80	12360(sqft)	165	7084 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			165	7084 Btuh

Totals for Heating	**Subtotal**	**24745 Btuh**
	Duct Loss(using duct multiplier of 0.05)	**1237 Btuh**
	Total Btuh Loss	**25982 Btuh**

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(Frame types - metal, wood or insulated metal)
(U - Window U-Factor or 'DEF' for default)
(HTM - ManualJ Heat Transfer Multiplier)

Key: Floor size (perimeter(p) for slab-on-grade or area for all other floor types)

System Sizing Calculations - Summer

Residential Load - Component Details

Spec House
Lake City, FL 32025-

Project Title:
Aaron Simque Homes - Spec House 1

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (User customized) Summer Temperature Difference: 24.0 F 8/31/2005

Window	Type Panes/SHGC/U/InSh/ExSh	Ornt	Overhang Len	Overhang Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	HTM Unshaded	Load
1	2, Clear, DEF, N, N	W	1.5	6	75.0	15.6	59.4	25	74	4787 Btuh
2	2, Clear, DEF, N, N	W	13.8	7.66	40.0	40.0	0.0	25	74	1000 Btuh
3	2, Clear, DEF, N, N	N	1.5	2	4.0	0.0	4.0	25	25	100 Btuh
4	2, Clear, DEF, N, N	E	1.5	6	15.0	0.0	15.0	25	74	1110 Btuh
5	2, Clear, DEF, N, N	E	1.5	8	30.0	0.0	30.0	25	74	2220 Btuh
6	2, Clear, DEF, N, N	S	1.5	2	4.0	4.0	0.0	25	39	100 Btuh
7	2, Clear, DEF, N, N	S	1.5	6	20.0	20.0	0.0	25	39	500 Btuh
8	2, Clear, DEF, N, N	S	1.5	2	4.0	4.0	0.0	25	39	100 Btuh
	Window Total				192					9917 Btuh

Walls	Type	R-Value	Area	HTM	Load
1	Frame - Exterior	13.0	1135.0	2.2	2520 Btuh
2	Frame - Adjacent	13.0	196.0	1.5	298 Btuh
	Wall Total		1331.0		2818 Btuh

Doors	Type	Area	HTM	Load
1	Insulated - Exter	20.0	12.9	259 Btuh
2	Insulated - Adjac	18.0	12.9	233 Btuh
	Door Total	38.0		492 Btuh

Ceilings	Type/Color	R-Value	Area	HTM	Load
1	Under Attic/Dark	30.0	1889.0	1.6	2985 Btuh
	Ceiling Total		1889.0		2985 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Slab-On-Grade Edge Insulation	0.0	171.0 ft(p)	0.0	0 Btuh
	Floor Total		171.0		0 Btuh

Infiltration	Type	ACH	Volume	CFM=	Load
	Natural	0.70	12360	144.5	3814 Btuh
	Mechanical			0	0 Btuh
	Infiltration Total			144	3814 Btuh

Internal gain	Occupants		Btuh/occupant		Appliance	Load
	6	X	300	+	1200	3000 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Spec House

Lake City, FL 32025-

Project Title:
Aaron Simque Homes - Spec House 1

Class 3 Rating
Registration No. 0
Climate: North

8/31/2005

Totals for Cooling	Subtotal	23026 Btuh
	Duct gain(using duct multiplier of 0.10)	2303 Btuh
	Total sensible gain	25328 Btuh
	Latent infiltration gain (for 51 gr. humidity difference)	5011 Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380 Btuh
	Latent other gain	0 Btuh
	TOTAL GAIN	31719 Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint)
(U - Window U-Factor or 'DEF' for default)
(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(Ornt - compass orientation)

Att: Weegie

Columbia County Building Department
Culvert Waiver

Culvert Waiver No. 000000905

DATE: 04/03/2006 BUILDING PERMIT NO. 23920

APPLICANT MELANIE RODER PHONE 386.752.2281

ADDRESS 387 SW KEMP CT LAKE CITY FL 32024

OWNER AARON SIMQUE HOMES PHONE 755.0841

ADDRESS 193 SE CAROB GLEN LAKE CITY FL 32025

CONTRACTOR AARON SIMQUE PHONE 386.755.0841

LOCATION OF PROPERTY 90-E TO SR 100,TR TO C-245,TR TO PLANT STREET,TR TO GOLDIE WAY,TL TO CAROB GLEN,TR 5TH LOT ON R.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT PARCEL "B"

PARCEL ID # 03-4S-17-07571-000

I HEREBY CERTIFY THAT I UNDERSTAND AND WILL FULLY COMPLY WITH THE DECISION OF THE COLUMBIA COUNTY PUBLIC WORKS DEPARTMENT IN CONNECTION WITH THE HEREIN PROPOSED APPLICATION.

SIGNATURE:

A SEPARATE CHECK IS REQUIRED
MAKE CHECKS PAYABLE TO BCC

Amount Paid 50.00

PUBLIC WORKS DEPARTMENT USE ONLY

I HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATION AND DETERMINED THAT THE CULVERT WAIVER IS:

✓ APPROVED _____ NOT APPROVED - NEEDS A CULVERT PERMIT

COMMENTS: No Culvert Needed Driveway to Serving as Ditch Block

RECEIVED
APR 04 2006
BY:

SIGNED: DATE: 04-05-06

ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DEPARTMENT AT 386-752-5955.

135 NE Hernando Ave., Suite B-21
Lake City, FL 32055
Phone: 386-758-1008 Fax: 386-758-2160

COLUMBIA COUNTY GATEWAY TO FLORIDA

PARCEL R

MiTek

MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017-5746
Telephone 314/434-1200
Fax 314/434-5343

RE: 8596-2 - SIMQUE HOMES (03-4S-17-07571)

Site Information:
Project Customer: SIMQUE HOMES Project Name: 03-4S-17-07571
Lot/Block: Subdivision:
Address:
City: LAKE CITY State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: License #:
Address: State:
City:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2001/ANSI9 Design Program: MiTek 20/20 6.2
Wind Code: ASCE 7-98 Wind Speed: 110 mph Design Method: Main Wind Force Resisting System ASCE 7-98
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 14 individual, dated Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Job ID#	Truss Name	Date
1	I9261039	8596-2	CJ7	10/24/05
2	I9261040	8596-2	G1	10/24/05
3	I9261041	8596-2	G2	10/24/05
4	I9261042	8596-2	H1	10/24/05
5	I9261043	8596-2	J1	10/24/05
6	I9261044	8596-2	J3	10/24/05
7	I9261045	8596-2	J5	10/24/05
8	I9261046	8596-2	S1	10/24/05
9	I9261047	8596-2	S2	10/24/05
10	I9261048	8596-2	T1	10/24/05
11	I9261049	8596-2	T2	10/24/05
12	I9261050	8596-2	T3	10/24/05
13	I9261051	8596-2	T6	10/24/05
14	I9261052	8596-2	V11	10/24/05

The truss drawing(s) referenced above have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Reese Building Components, Inc.

Truss Design Engineer's Name: Miller, Scott
My license renewal date for the state of Florida is February 28, 2007.

NOTE: The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1 Chapter 2.

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

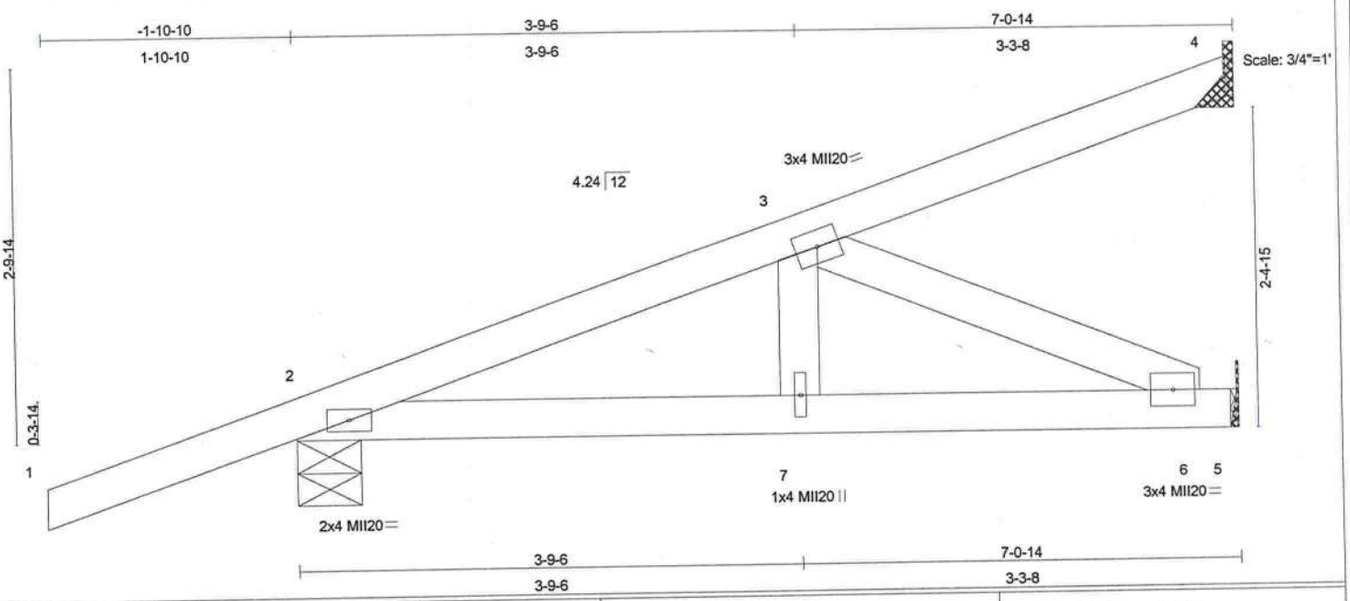
October 24,200:

Miller, Scott

Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)	I9261039
8596-2	CJ7	ROOF TRUSS	2	1	Job Reference (optional)	

Reese Building Components, INC., Sylvester Ga.

6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:04 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	0.02	6-7	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.03	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2001/ANSI95	(Matrix)							Weight: 31 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 4=16/Mechanical, 2=307/0-5-11, 5=285/Mechanical
Max Horz 2=-62(load case 4)
Max Uplift4=-7(load case 2), 2=-235(load case 2), 5=-114(load case 2)
Max Grav 4=35(load case 4), 2=307(load case 1), 5=285(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-324/101, 3-4=-2/12
BOT CHORD 2-7=-60/285, 6-7=-60/285, 5-6=0/0
WEBS 3-7=-162/308, 3-6=-313/66

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4, 235 lb uplift at joint 2 and 114 lb uplift at joint 5.
4) 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
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60
Trapezoidal Loads (plf)
Vert: 2=-0(F=10, B=10)-to-5=-141(F=-61, B=-61)

Scott W. Miller, FL Lic #58316
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Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

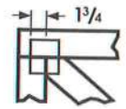
WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

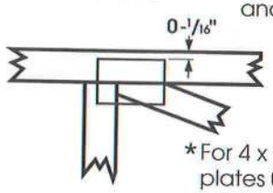
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

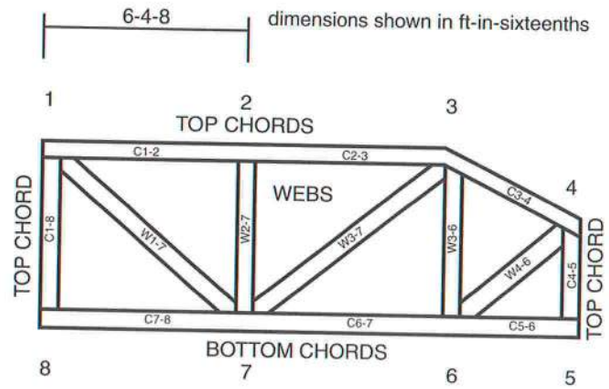
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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TEE-LOK®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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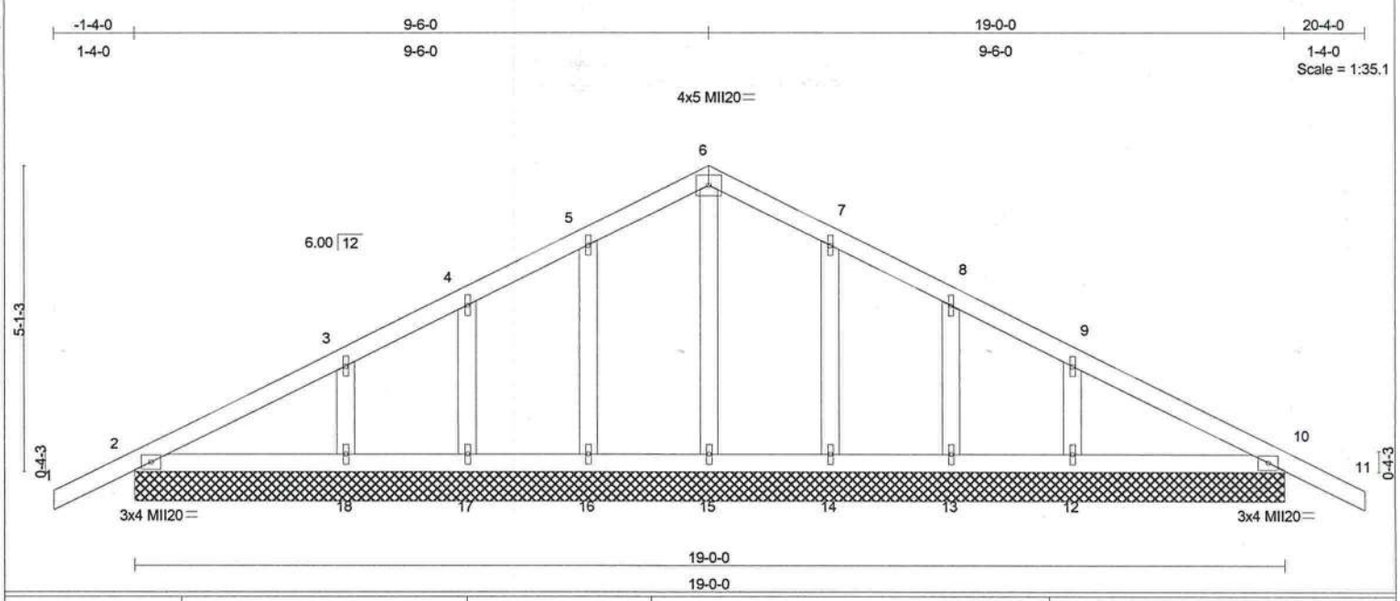
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	G1	ROOF TRUSS	1	1	I9261040 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:05 2005 Page 1



LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	11	n/r	120	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	0.00	10	n/r	90		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 94 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=221/19-0-0, 10=221/19-0-0, 15=144/19-0-0, 16=169/19-0-0, 17=124/19-0-0, 18=254/19-0-0, 14=169/19-0-0, 13=124/19-0-0, 12=254/19-0-0
Max Horz 2=-150(load case 5)
Max Uplift2=-120(load case 4), 10=-149(load case 5), 16=-100(load case 4), 17=-90(load case 4), 18=-134(load case 4), 14=-98(load case 5), 13=-91(load case 5), 12=-134(load case 5)
Max Grav 2=221(load case 1), 10=221(load case 1), 15=144(load case 1), 16=173(load case 6), 17=124(load case 1), 18=254(load case 6), 14=173(load case 7), 13=124(load case 1), 12=254(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-106/75, 3-4=-49/123, 4-5=-38/155, 5-6=-41/187, 6-7=-41/176, 7-8=-38/114, 8-9=-49/60, 9-10=-61/39, 10-11=0/34
BOT CHORD 2-18=0/135, 17-18=0/135, 16-17=0/135, 15-16=0/135, 14-15=0/135, 13-14=0/135, 12-13=0/135, 10-12=0/135
WEBS 6-15=-106/0, 5-16=-130/122, 4-17=-97/105, 3-18=-183/168, 7-14=-130/119, 8-13=-97/105, 9-12=-183/168

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 1x4 MII20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 2, 149 lb uplift at joint 10, 100 lb uplift at joint 16, 90 lb uplift at joint 17, 134 lb uplift at joint 18, 98 lb uplift at joint 14, 91 lb uplift at joint 13 and 134 lb uplift at joint 12.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

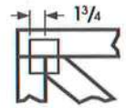
WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

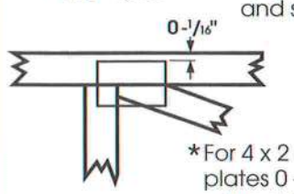
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

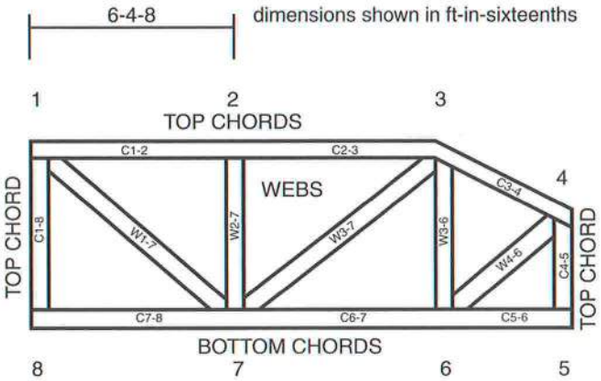
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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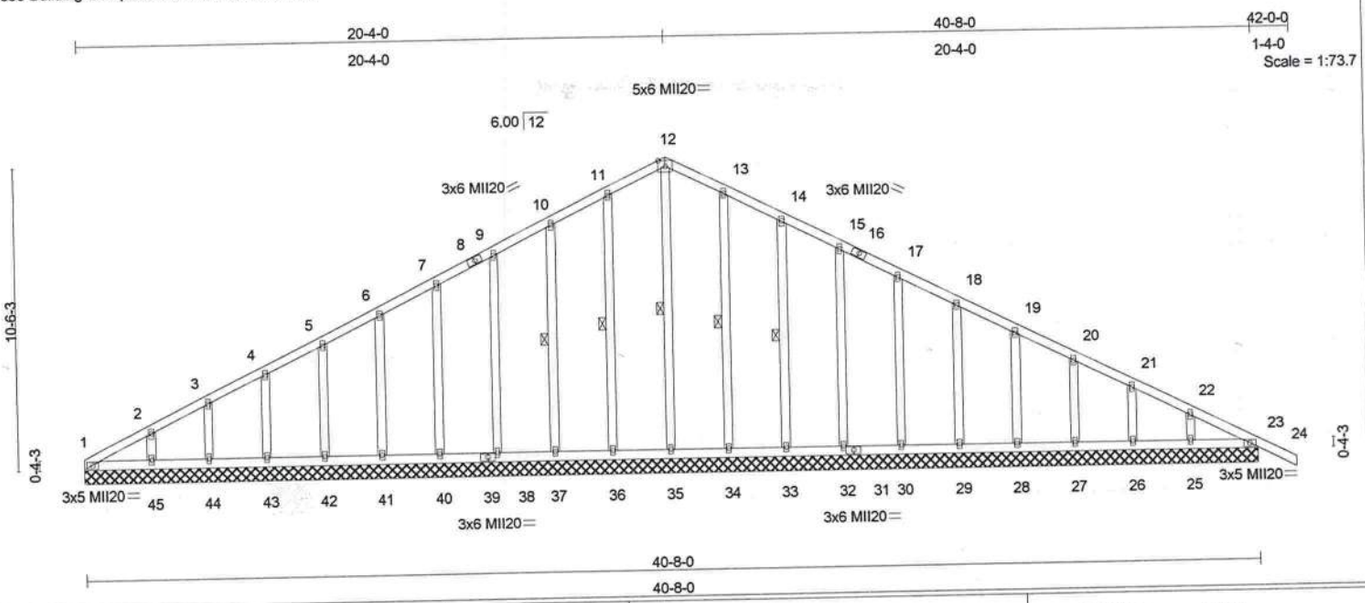
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)	I9261041
3596-2	G2	ROOF TRUSS	2	1	Job Reference (optional)	

Reese Building Components, INC., Sylvester Ga.

6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:05 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	24	n/r	120	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	24	n/r	90		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(TL)	0.02	23	n/a	n/a		
BCDL	10.0	Code	FBC2001/ANSI95	(Matrix)							Weight: 278 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-35, 11-36, 10-37, 13-34, 14-33

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 1=82/40-8-0, 35=148/40-8-0, 36=159/40-8-0, 37=160/40-8-0, 38=160/40-8-0, 40=160/40-8-0, 41=160/40-8-0, 42=159/40-8-0, 43=163/40-8-0, 44=148/40-8-0, 45=201/40-8-0, 34=159/40-8-0, 33=160/40-8-0, 32=160/40-8-0, 30=160/40-8-0, 29=160/40-8-0, 28=160/40-8-0, 27=160/40-8-0, 26=160/40-8-0, 25=162/40-8-0, 23=191/40-8-0
Max Horz 1=-295(load case 5)
Max Uplift 1=-38(load case 5), 36=-83(load case 4), 37=-106(load case 4), 38=-99(load case 4), 40=-100(load case 4), 41=-100(load case 4), 42=-99(load case 4), 43=-102(load case 4), 44=-92(load case 4), 45=-131(load case 4), 34=-75(load case 5), 33=-109(load case 5), 32=-98(load case 5), 30=-100(load case 5), 29=-100(load case 5), 28=-100(load case 5), 27=-97(load case 5), 26=-109(load case 5), 25=-74(load case 5), 23=-72(load case 5)
Max Grav 1=115(load case 4), 35=252(load case 5), 36=163(load case 6), 37=160(load case 1), 38=160(load case 6), 40=160(load case 6), 41=160(load case 1), 42=159(load case 6), 43=163(load case 1), 44=148(load case 6), 45=201(load case 6), 34=163(load case 7), 33=160(load case 1), 32=160(load case 7), 30=160(load case 7), 29=160(load case 1), 28=160(load case 7), 27=160(load case 1), 26=160(load case 7), 25=162(load case 7), 23=191(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-324/68, 2-3=-249/107, 3-4=-188/141, 4-5=-125/177, 5-6=-63/213, 6-7=-41/248, 7-8=-41/279, 8-9=-2/284, 9-10=-41/318, 10-11=-41/357, 11-12=-41/380, 12-13=-41/369, 13-14=-41/318, 14-15=-41/251, 15-16=-3/189, 16-17=-41/185, 17-18=-41/130, 18-19=-41/94, 19-20=-41/59, 20-21=-70/29, 21-22=-133/17, 22-23=-196/20, 23-24=0/34
BOT CHORD 1-45=0/259, 44-45=0/259, 43-44=0/259, 42-43=0/259, 41-42=0/259, 40-41=0/259, 39-40=0/259, 38-39=0/259, 37-38=0/259, 36-37=0/259, 35-36=0/259, 34-35=0/259, 33-34=0/259, 32-33=0/259, 31-32=0/259, 30-31=0/259, 29-30=0/259, 28-29=0/259, 27-28=0/259, 26-27=0/259, 25-26=0/259, 23-25=0/259
WEBS 12-35=-232/0, 11-36=-123/103, 10-37=-120/126, 9-38=-120/119, 7-40=-120/120, 6-41=-120/120, 5-42=-120/119, 4-43=-122/121, 3-44=-113/115, 2-45=-143/142, 13-34=-123/95, 14-33=-120/129, 15-32=-120/118, 17-30=-120/120, 18-29=-120/120, 19-28=-120/120, 20-27=-120/119, 21-26=-119/122, 22-25=-124/115

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
4) All plates are 2x4 MII20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.

Continued on page 2

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

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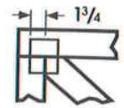
14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

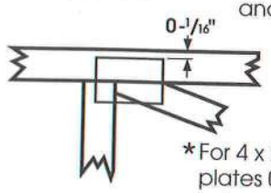
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

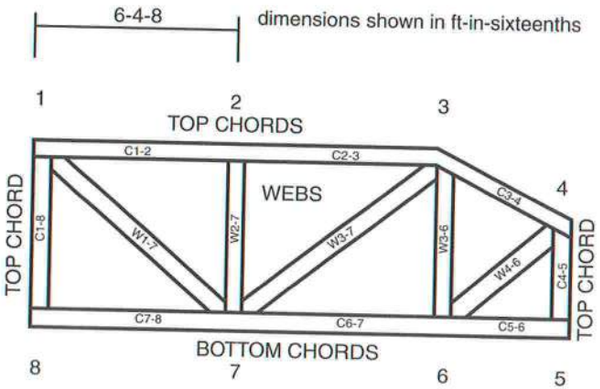
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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NOTES

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 83 lb uplift at joint 36, 106 lb uplift at joint 37, 99 lb uplift at joint 38 , 100 lb uplift at joint 40, 100 lb uplift at joint 41, 99 lb uplift at joint 42, 102 lb uplift at joint 43, 92 lb uplift at joint 44, 131 lb uplift at joint 45, 75 lb uplift at joint 34, 109 lb uplift at joint 33, 98 lb uplift at joint 32, 100 lb uplift at joint 30, 100 lb uplift at joint 29, 100 lb uplift at joint 28, 97 lb uplift at joint 27, 109 lb uplift at joint 26, 74 lb uplift at joint 25 and 72 lb uplift at joint 23.

LOAD CASE(S) Standard

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14515 N. Outer Forty,
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Chesterfield, MO 63017

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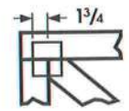
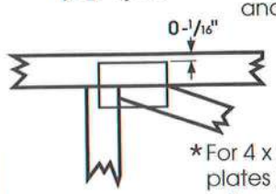
Symbols

PLATE LOCATION AND ORIENTATION



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



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

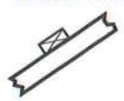
*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

BEARING

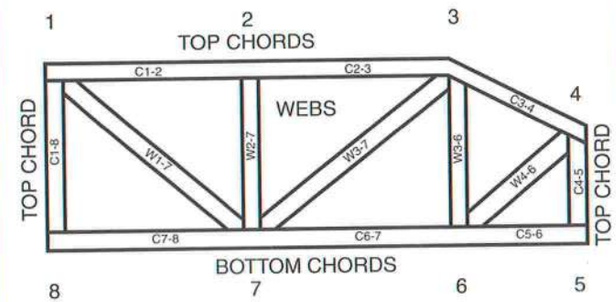
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 — dimensions shown in ft-in-sixteenths



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CONNECTOR PLATE CODE APPROVALS

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	H1	ROOF TRUSS	1	2	I9261042

Reese Building Components, INC., Sylvester Ga.

Job Reference (optional)

6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:06 2005 Page 1

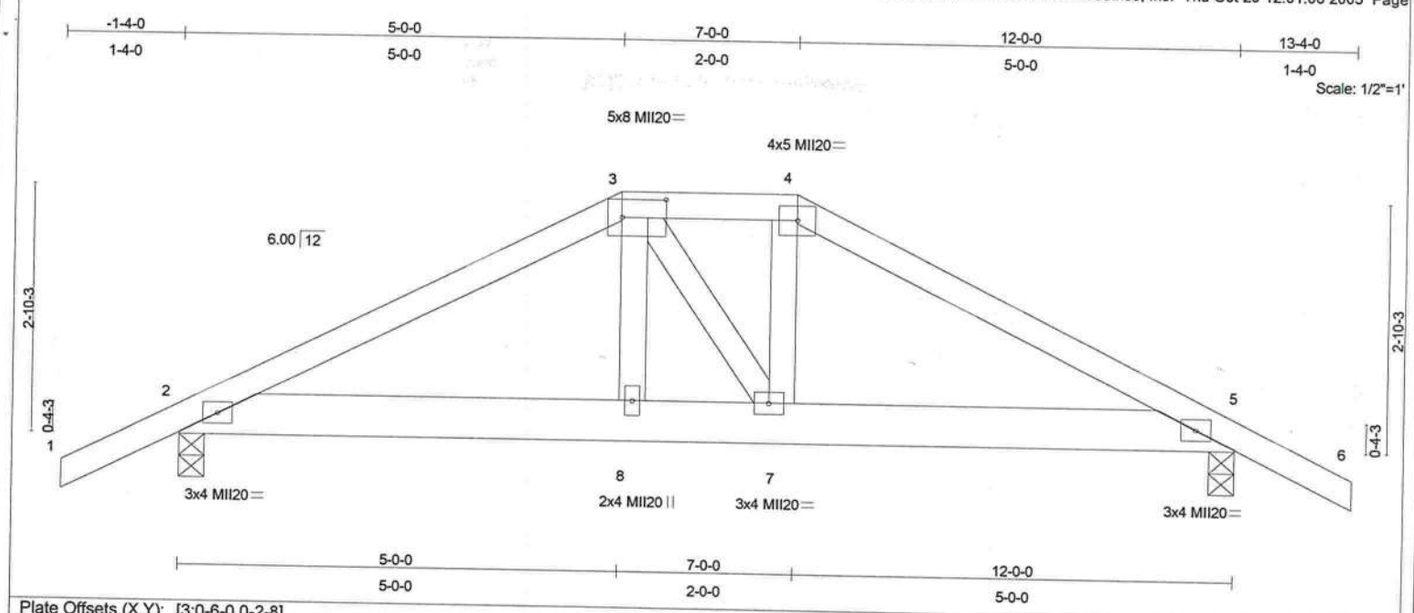

Plate Offsets (X,Y): [3:0-6-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	0.01	8	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.13	Vert(TL)	-0.02	8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 125 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=852/0-3-8, 5=852/0-3-8
Max Horz 2=-98(load case 5)
Max Uplift2=-438(load case 4), 5=-438(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-1267/579, 3-4=-1077/563, 4-5=-1268/577, 5-6=0/38
BOT CHORD 2-8=-476/1069, 7-8=-472/1077, 5-7=-438/1070
WEBS 3-8=0/128, 3-7=-88/90, 4-7=0/186

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 438 lb uplift at joint 2 and 438 lb uplift at joint 5.
7) Girder carries hip end with 5-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 175 lb down and 175 lb up at 7-0-0, and 175 lb down and 175 lb up at 5-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-101(F=-41), 4-6=-60, 2-5=-34(F=-14)

Scott W. Miller, FL Lic #58316
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FL Cert.#6634

October 24,2005

Continued on page 2

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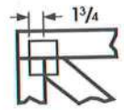
Chesterfield, MO 63017

MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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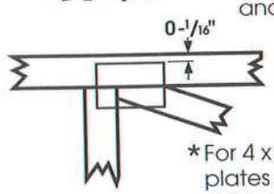

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*This symbol indicates the required direction of slots in connector plates.

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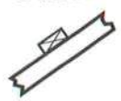
PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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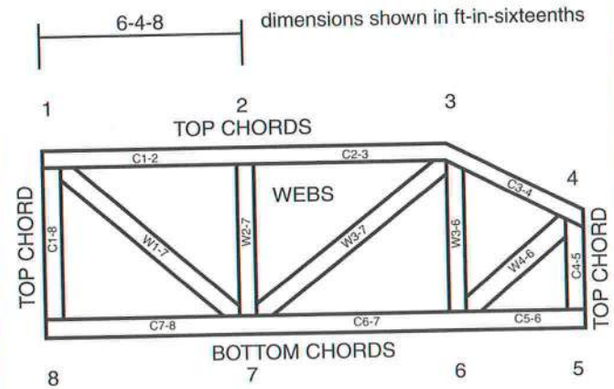

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BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
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MiTek®

TEE-LOK®

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8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
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14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-175(F) 4=-175(F)

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Symbols

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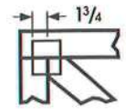
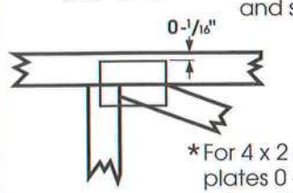


*Center plate on joint unless x,y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and securely seat.



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

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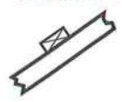
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

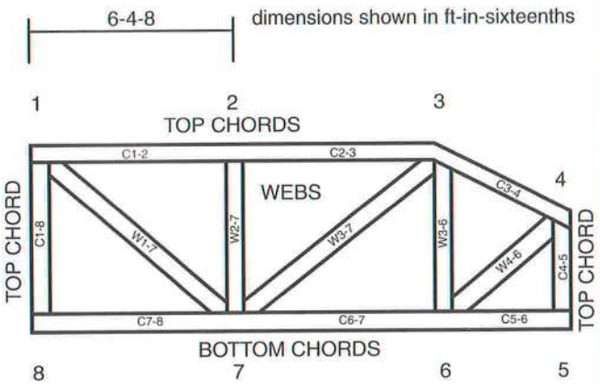
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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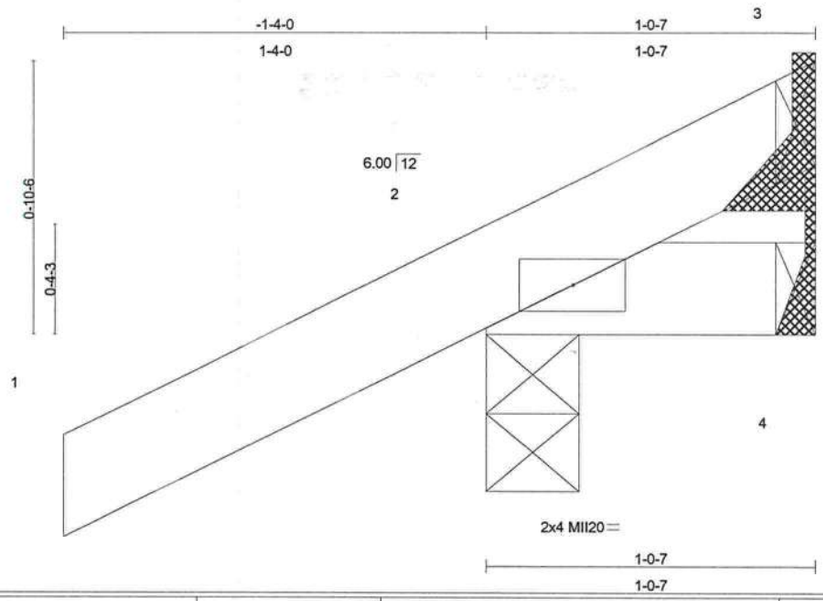
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J1	ROOF TRUSS	4	1	I9261043 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:06 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.00	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 6 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 1-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=178/0-3-8, 4=10/Mechanical, 3=-28/Mechanical
Max Horz 2=79(load case 4)
Max Uplift2=-183(load case 4), 3=-28(load case 1)
Max Grav 2=178(load case 1), 4=10(load case 1), 3=50(load case 4)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-42/24
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 2 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

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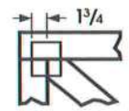
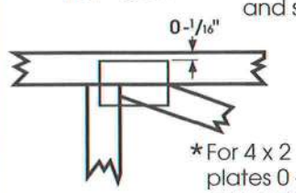
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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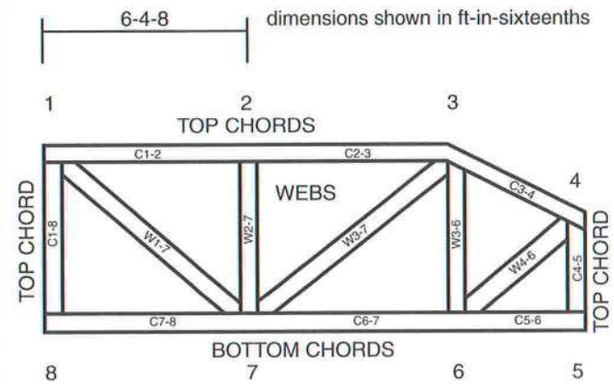
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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CONNECTOR PLATE CODE APPROVALS

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ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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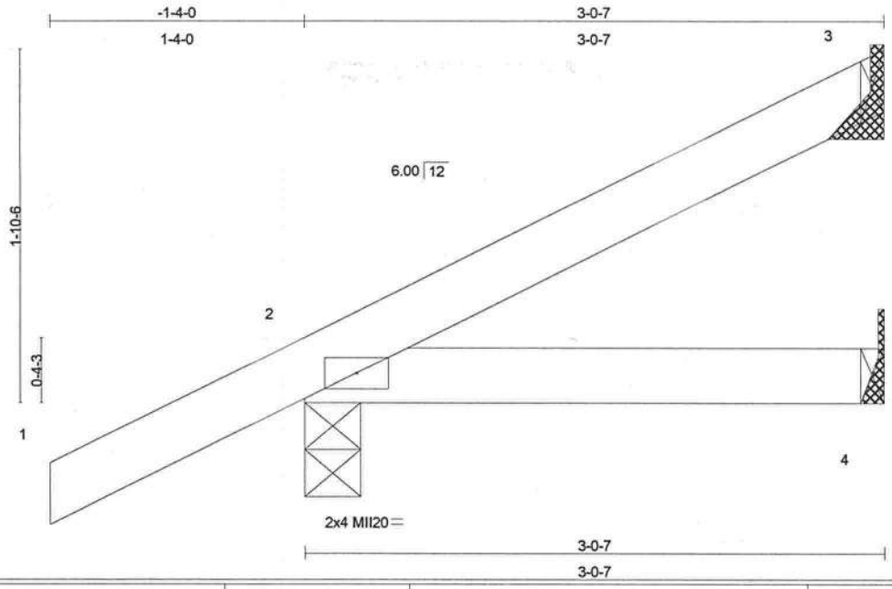
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J3	ROOF TRUSS	4	1	I9261044 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:07 2005 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	2-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 12 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 3-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 3=58/Mechanical, 2=223/0-3-8, 4=28/Mechanical
Max Horz 2=132(load case 4)
Max Uplift3=-53(load case 4), 2=-160(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-51/20
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 160 lb uplift at joint 2.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

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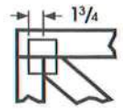
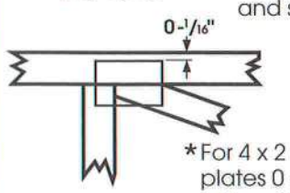
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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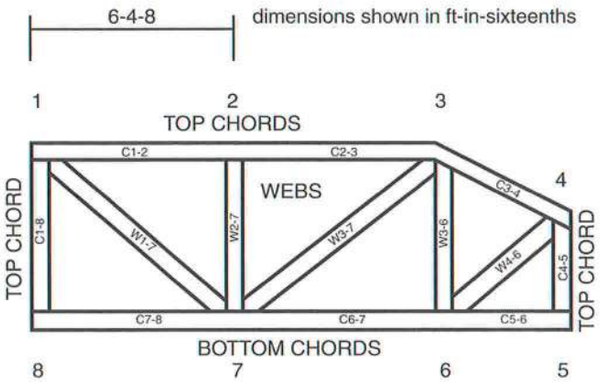
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J5	ROOF TRUSS	2	1	I9261045
					Job Reference (optional)

Reese Building Components, INC., Sylvester Ga.

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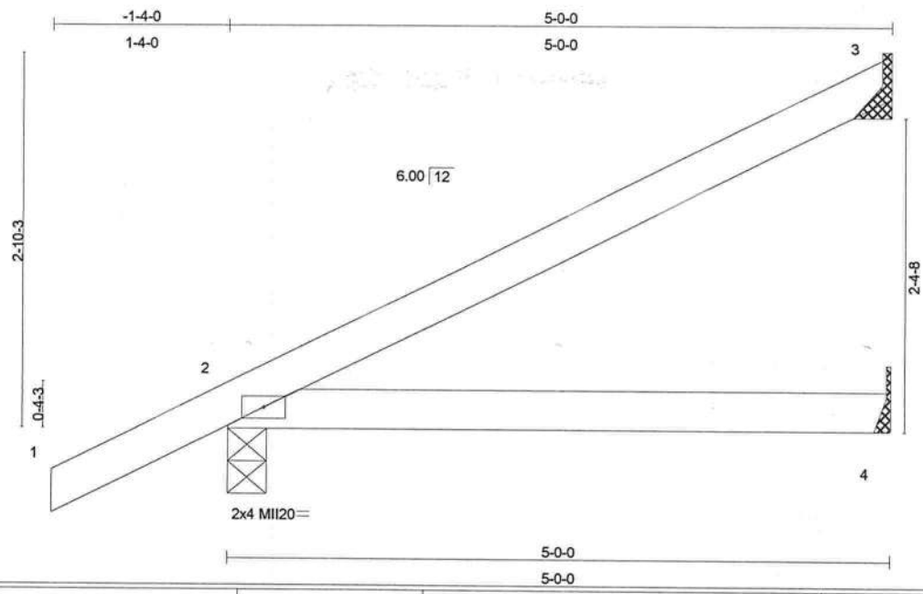

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.03	2-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=127/Mechanical, 2=292/0-3-8, 4=48/Mechanical
Max Horz 2=187(load case 4)
Max Uplift3=-125(load case 4), 2=-168(load case 4)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-80/46
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 3 and 168 lb uplift at joint 2.

LOAD CASE(S) Standard

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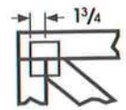
14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

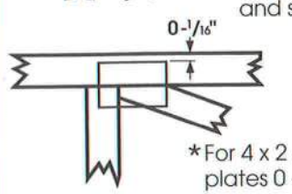
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

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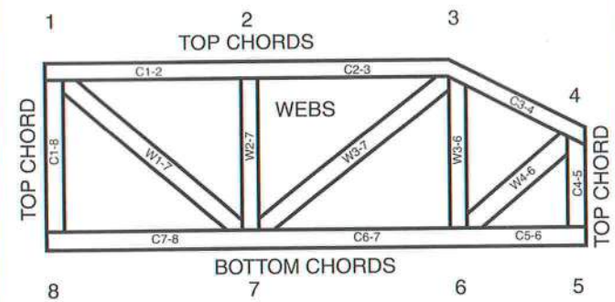
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 — dimensions shown in ft-in-sixteenths



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TEE-LOK®

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6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	S1	ROOF TRUSS	3	1	I9261046 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:07 2005 Page 1

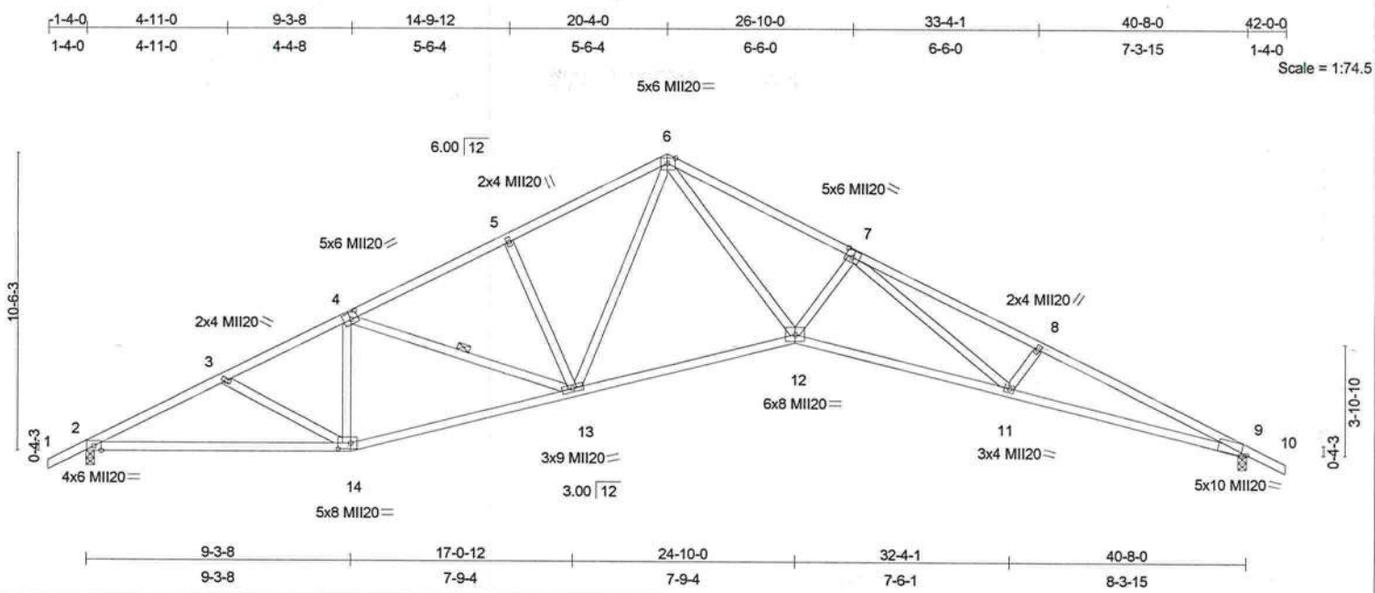

Plate Offsets (X,Y): [4:0-3-0,0-3-0], [6:0-3-4,Edge], [7:0-3-0,0-3-0], [9:0-2-7,Edge], [14:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.99	Vert(LL)	0.48	11-12	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.94	11-12	>518	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.52	9	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 211 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
7-10 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2 *Except*
9-12 2 X 4 SYP No.1
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 5-2-13 oc bracing.
WEBS 1 Row at midpt 4-13

REACTIONS (lb/size) 2=1704/0-3-8, 9=1704/0-3-8
Max Horz 2=280(load case 4)
Max Uplift2=-674(load case 4), 9=-674(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-3083/1084, 3-4=-2831/967, 4-5=-2873/983, 5-6=-2740/1025, 6-7=-4328/1272, 7-8=-5465/1765, 8-9=-5693/1774, 9-10=0/33
BOT CHORD 2-14=-1107/2692, 13-14=-929/2571, 12-13=-532/2287, 11-12=-999/4278, 9-11=-1465/5144
WEBS 3-14=-255/241, 4-14=-327/198, 4-13=-94/134, 5-13=-312/307, 6-13=-372/622, 6-12=-715/2742, 7-12=-621/507, 7-11=-532/947, 8-11=-299/341

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 2 and 674 lb uplift at joint 9.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

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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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

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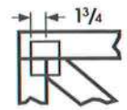
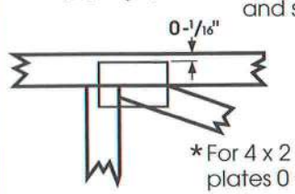
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

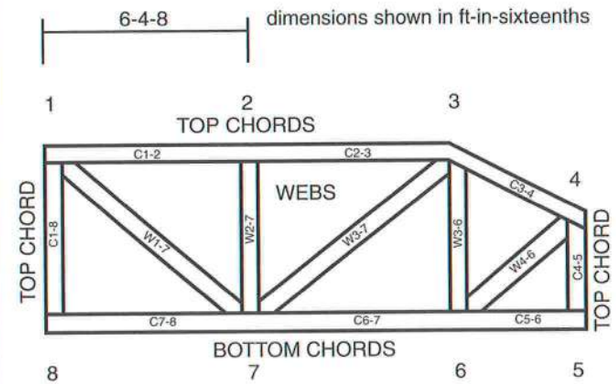
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	S2	ROOF TRUSS	5	1	I9261047 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:08 2005 Page 1

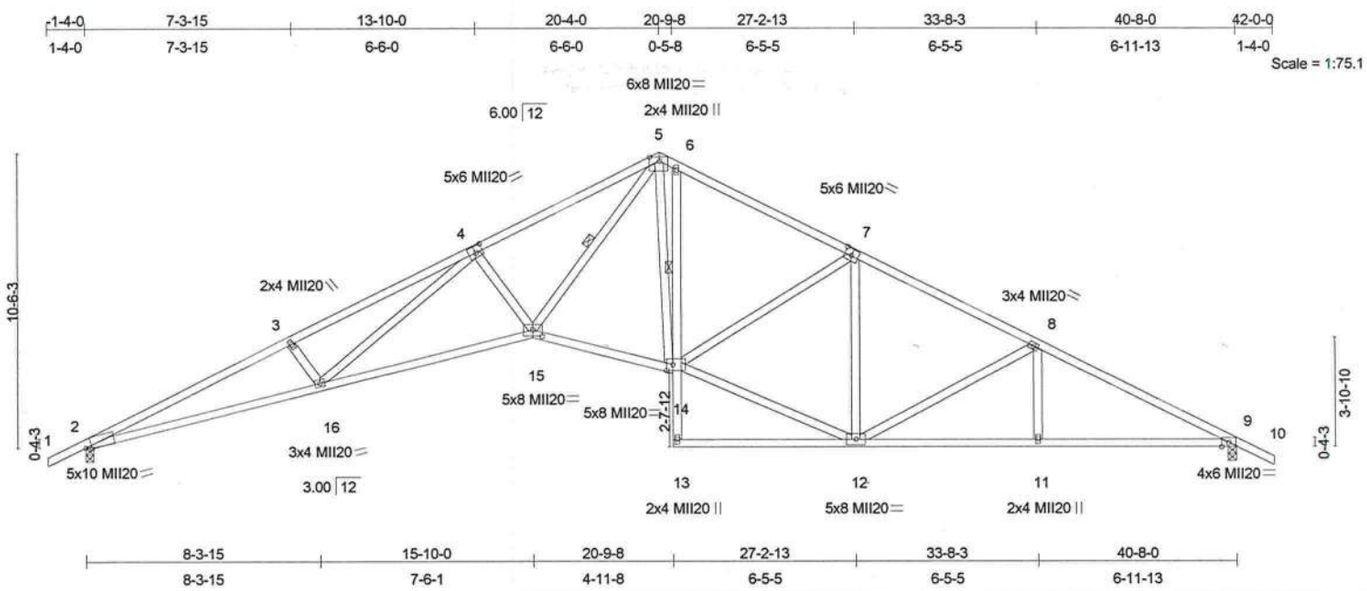

Plate Offsets (X,Y): [2:0-2-7,Edge], [4:0-3-0,0-3-0], [5:0-4-4,Edge], [7:0-3-0,0-3-0], [14:0-2-12,0-2-8], [15:0-4-0,0-2-12]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.99	Vert(LL)	0.55	15-16	>877	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.94	15-16	>513	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.87	Horz(TL)	0.52	9	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 234 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
1-4 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2 *Except*
2-15 2 X 4 SYP No.1, 6-13 2 X 4 SYP No.3
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 4-5-6 oc bracing. Except:
1 Row at midpt 6-14
WEBS 1 Row at midpt 5-15

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=1704/0-3-8, 9=1704/0-3-8
Max Horz 2=-280(load case 5)
Max Uplift2=-674(load case 4), 9=-674(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/33, 2-3=-5697/2060, 3-4=-5468/2051, 4-5=-4320/1514, 5-6=-2438/856, 6-7=-2607/900, 7-8=-2503/873, 8-9=-3088/1029, 9-10=0/35
BOT CHORD 2-16=-2014/5147, 15-16=-1424/4271, 14-15=-535/2299, 13-14=0/64, 6-14=-159/177, 12-13=0/33, 11-12=-755/2667, 9-11=-755/2667
WEBS 3-16=-301/337, 4-16=-519/962, 4-15=-614/495, 5-15=-995/2703, 5-14=-432/631, 12-14=-542/2313, 7-14=-69/324, 7-12=-495/209, 8-12=-588/372, 8-11=0/156

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 2 and 674 lb uplift at joint 9.

LOAD CASE(S) Standard

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October 24,2005

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Chesterfield, MO 63017

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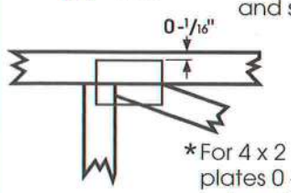
Symbols

PLATE LOCATION AND ORIENTATION

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



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

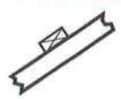
*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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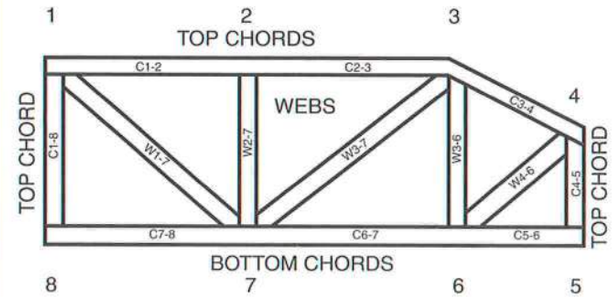
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths



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.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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TEE-LOK®

⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
596-2	T1	ROOF TRUSS	2	1	I9261048 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:08 2005 Page 1

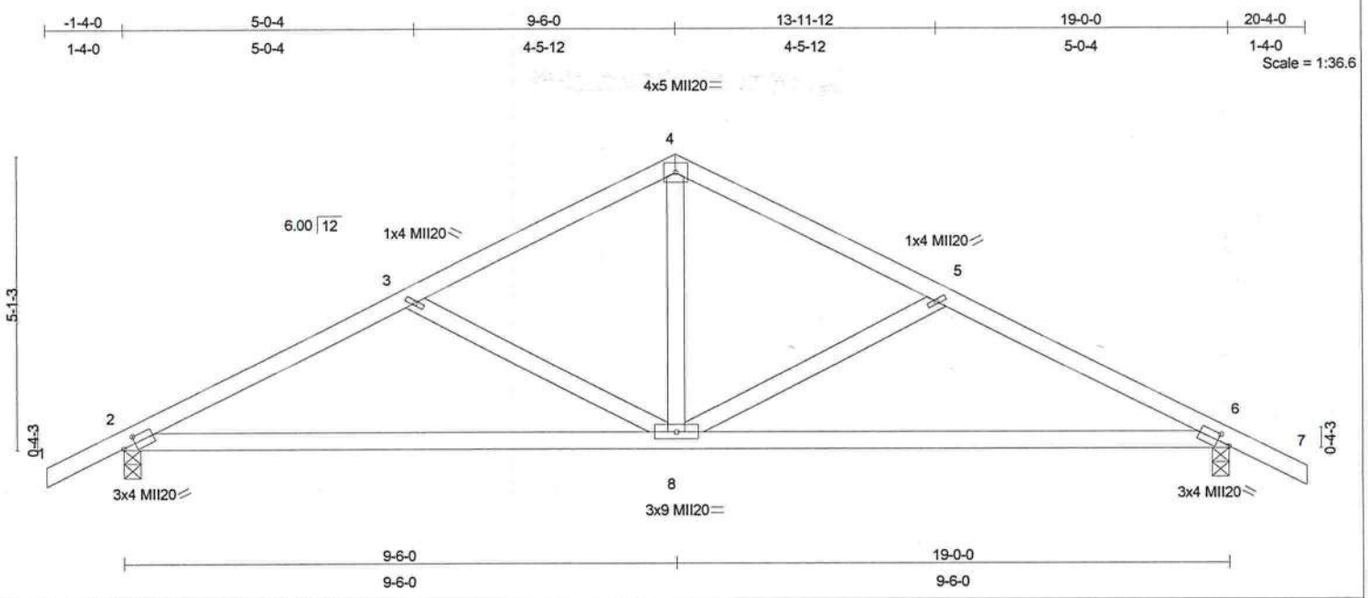

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [6:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.04	6-8	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.17	2-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 86 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 5-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing.

REACTIONS (lb/size) 2=837/0-3-8, 6=837/0-3-8
Max Horz 2=-150(load case 5)
Max Uplift2=-369(load case 4), 6=-369(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1228/434, 3-4=-931/313, 4-5=-931/313, 5-6=-1228/435, 6-7=0/35
BOT CHORD 2-8=-402/1052, 6-8=-253/1052
WEBS 3-8=-334/292, 4-8=-97/506, 5-8=-334/293

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 2 and 369 lb uplift at joint 6.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
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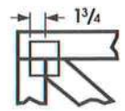
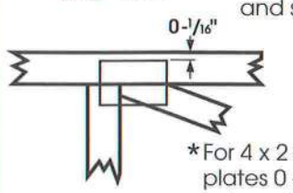
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

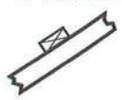
*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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BEARING

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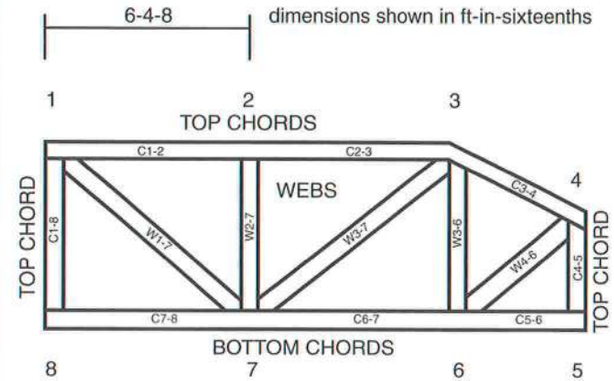
Numbering System



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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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TEE-LOK®

⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T2	ROOF TRUSS	1	2	I9261049 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:08 2005 Page 1

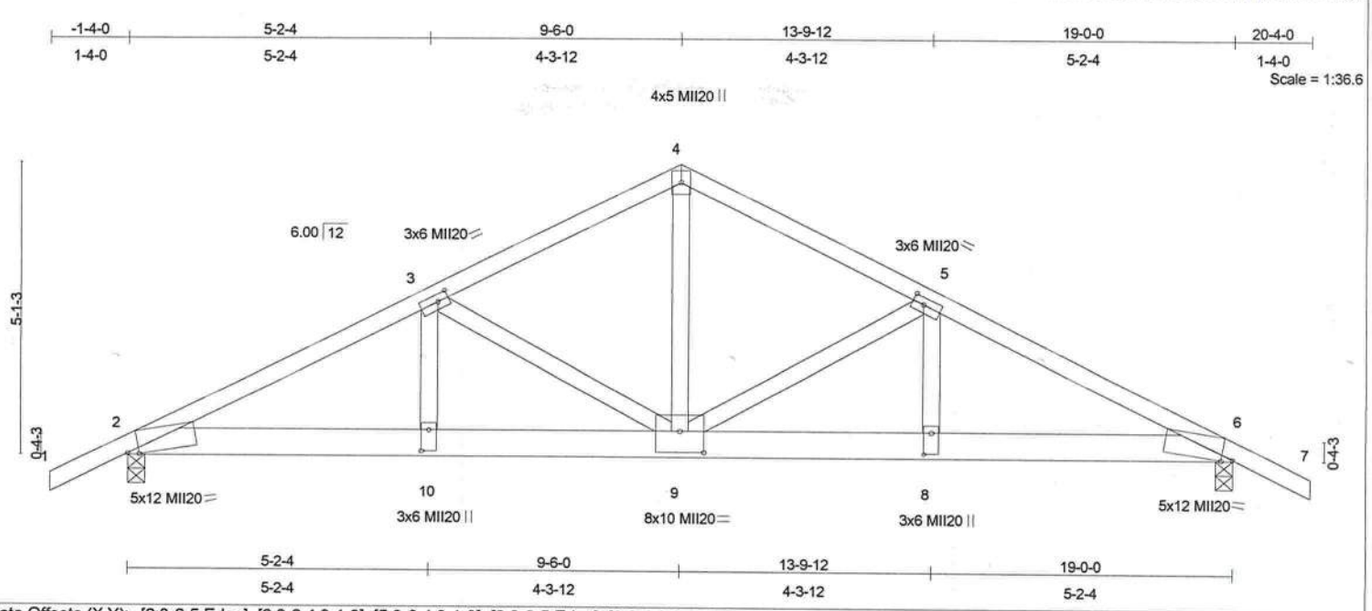

Plate Offsets (X,Y): [2:0-2-5,Edge], [3:0-2-4,0-1-8], [5:0-2-4,0-1-8], [6:0-2-5,Edge], [8:0-4-8,0-1-8], [9:0-5-0,0-4-8], [10:0-4-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	0.22	9-10	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.32	8-9	>705	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.09	6	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 215 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP SS
WEBS 2 X 4 SYP No.3 *Except*
4-9 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 2-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-15 oc bracing.

REACTIONS (lb/size) 2=8079/0-4-12 (input: 0-3-8), 6=8079/0-4-12 (input: 0-3-8)
Max Horz 2=-152(load case 5)
Max Uplift2=-3617(load case 4), 6=-3617(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-13455/5859, 3-4=-9221/4060, 4-5=-9221/4061, 5-6=-13455/5860, 6-7=0/38
BOT CHORD 2-10=-5251/11979, 9-10=-5251/11979, 8-9=-5114/11979, 6-8=-5114/11979
WEBS 3-10=-1654/3882, 3-9=-4399/2037, 4-9=-3453/7897, 5-9=-4399/2039, 5-8=-1654/3882

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
5) WARNING: Required bearing size at joint(s) 2, 6 greater than input bearing size.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3617 lb uplift at joint 2 and 3617 lb uplift at joint 6.
7) Girder carries tie-in span(s): 41-0-0 from 0-0-0 to 19-0-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-6=-794(F=-774)

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

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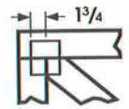
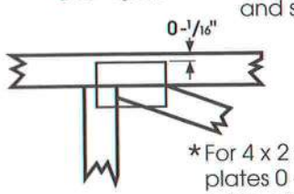
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

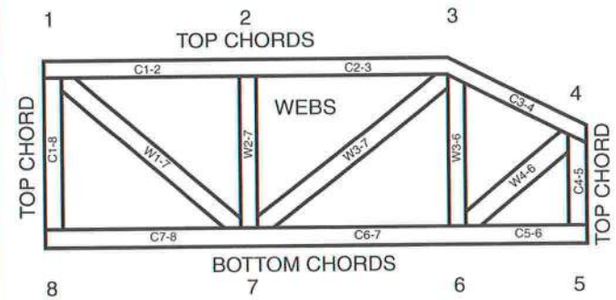
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 — dimensions shown in ft-in-sixteenths



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.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
3596-2	T3	ROOF TRUSS	15	1	I9261050 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:09 2005 Page 1

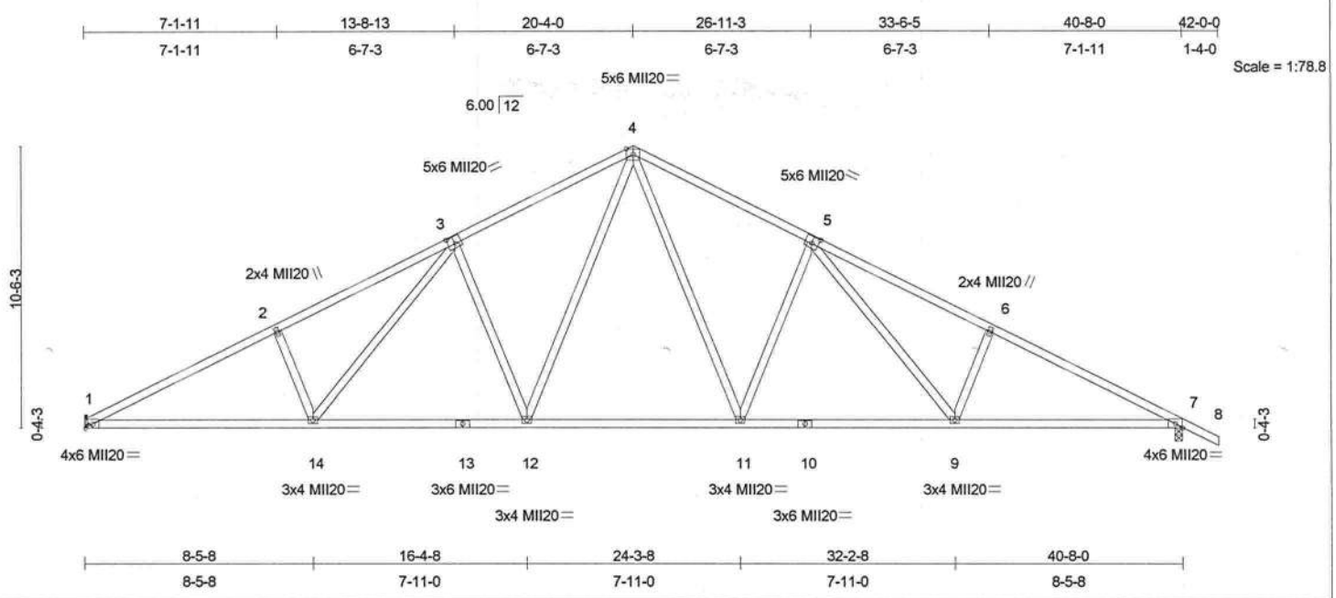

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	0.20	1-14	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.38	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.13	7	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 219 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing.

REACTIONS (lb/size) 1=1613/Mechanical, 7=1705/0-3-8
Max Horz 1=-295(load case 5)
Max Uplift1=-571(load case 4), 7=-674(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3076/1056, 2-3=-2923/1123, 3-4=-2212/888, 4-5=-2211/882, 5-6=-2908/1100, 6-7=-3062/1033, 7-8=0/35
BOT CHORD 1-14=-1061/2660, 13-14=-720/2134, 12-13=-720/2134, 11-12=-379/1612, 10-11=-501/2131, 9-10=-501/2131, 7-9=-756/2645
WEBS 2-14=-361/366, 3-14=-347/663, 3-12=-655/514, 4-12=-424/816, 4-11=-420/813, 5-11=-650/507, 5-9=-326/647, 6-9=-354/357

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 571 lb uplift at joint 1 and 674 lb uplift at joint 7.

LOAD CASE(S) Standard

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October 24,2005

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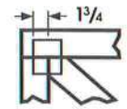
Suite #300
Chesterfield, MO 63017

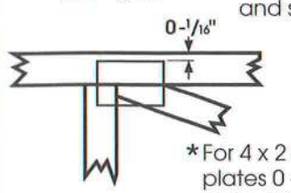
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

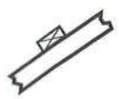
*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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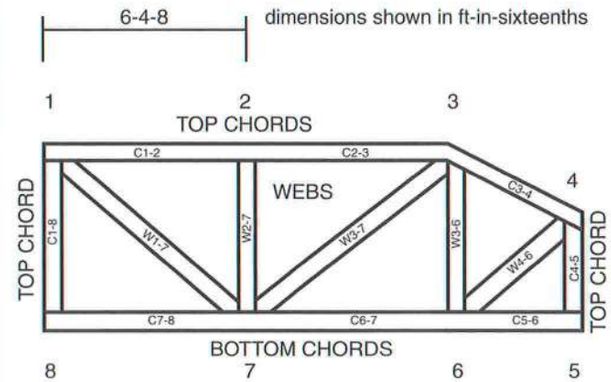
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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CONNECTOR PLATE CODE APPROVALS

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ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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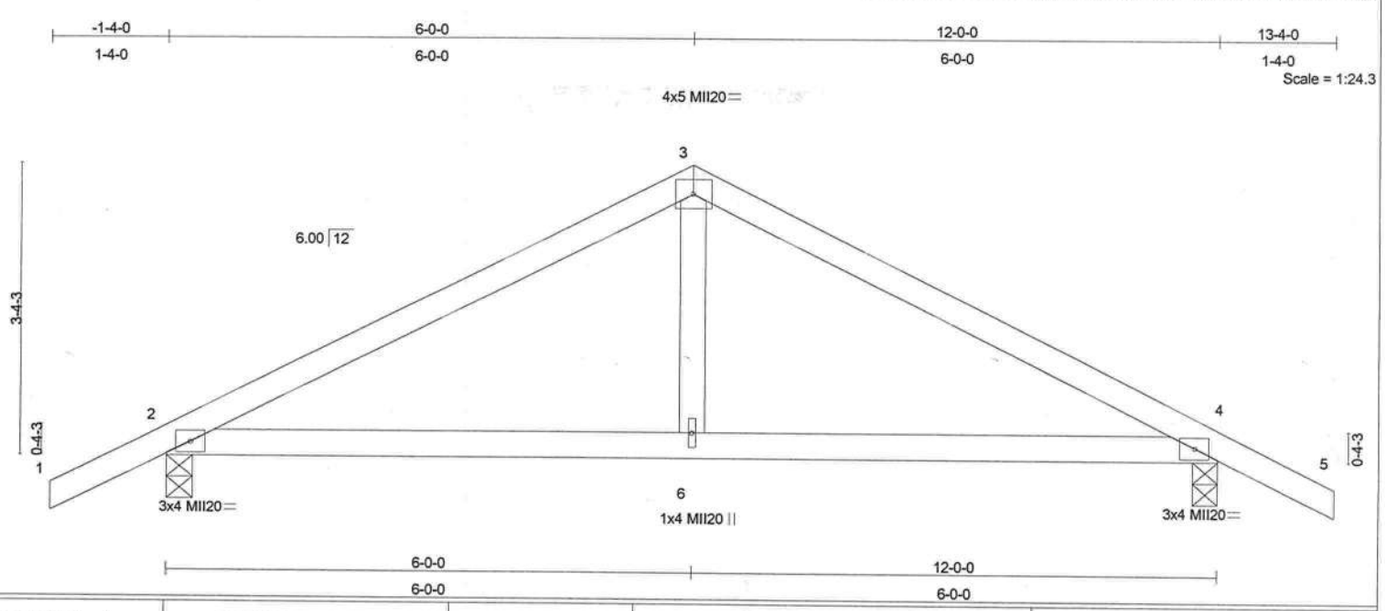
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T6	ROOF TRUSS	3	1	I9261051 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:09 2005 Page



LOADING (psf)		SPACING 2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.27	Vert(LL)	0.03	2-6	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.26	Vert(TL)	-0.05	2-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 47 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=557/0-3-8, 4=557/0-3-8
Max Horz 2=-108(load case 5)
Max Uplift2=-272(load case 4), 4=-272(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-665/204, 3-4=-665/203, 4-5=0/35
BOT CHORD 2-6=-111/526, 4-6=-111/526
WEBS 3-6=0/157

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2 and 272 lb uplift at joint 4.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
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October 24,2005

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14515 N. Outer Forty,
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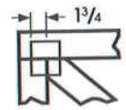
Chesterfield, MO 63017

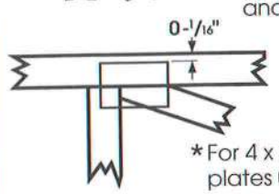
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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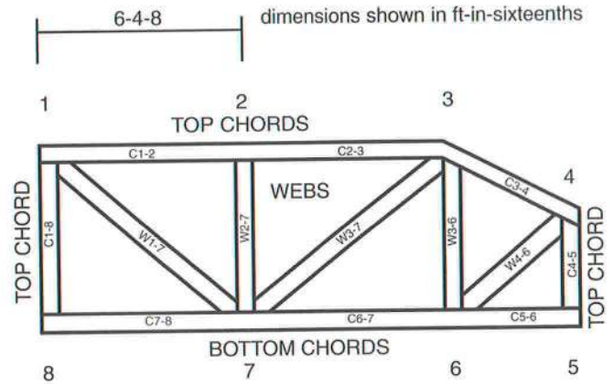
Numbering System



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.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	V11	ROOF TRUSS	1	1	I9261052
					Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Oct 20 12:01:09 2005 Page 1

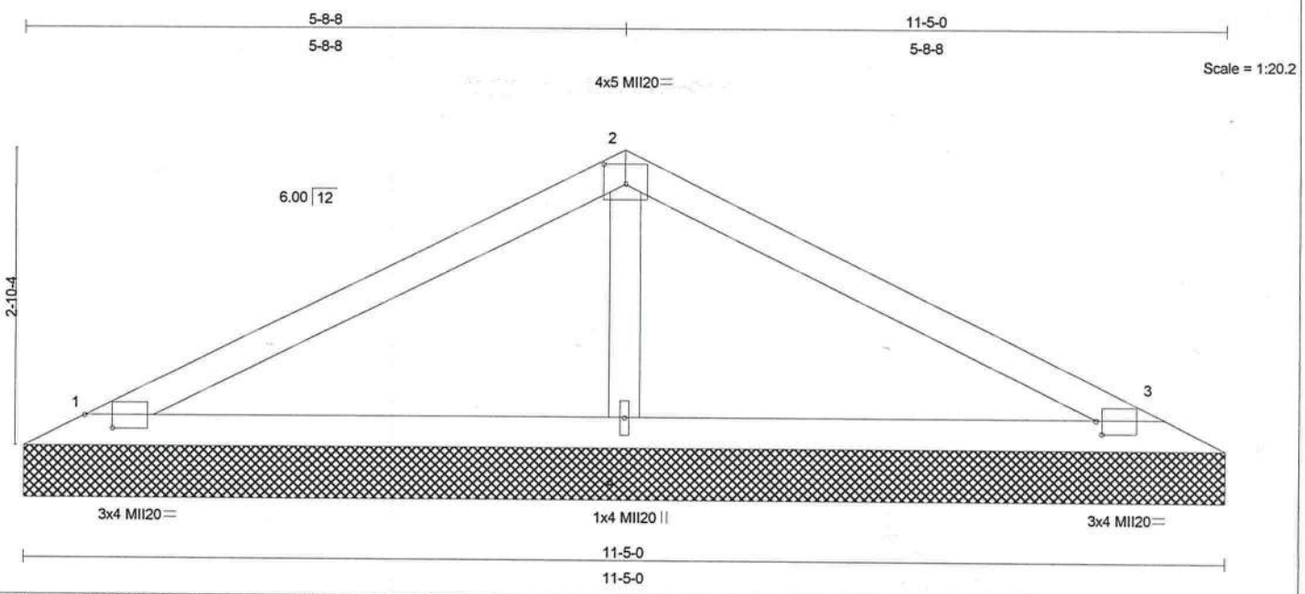


Plate Offsets (X,Y): [1:0-3-3,0-1-8], [2:0-2-8,0-2-4], [3:0-0-11,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 37 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 1=174/11-5-0, 3=174/11-5-0, 4=466/11-5-0
Max Horz 1=61(load case 4)
Max Uplift1=-78(load case 4), 3=-89(load case 5), 4=-133(load case 4)
Max Grav 1=180(load case 6), 3=180(load case 7), 4=466(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-105/83, 2-3=-105/57
BOT CHORD 1-4=-7/43, 3-4=-7/43
WEBS 2-4=-310/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 1, 89 lb uplift at joint 3 and 133 lb uplift at joint 4.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

October 24,2005

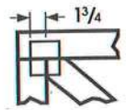
WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

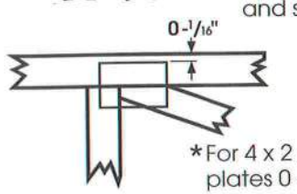
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

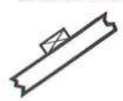
*This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING



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

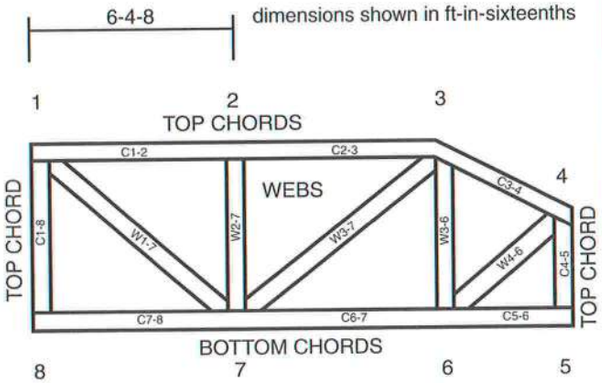
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

⚠General Safety Notes

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5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
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12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Mark Disosway, P.E.
POB 868, Lake City, FL 32056, Ph (386) 754-5419, Fax (386) 269-4871

December 2, 2005

Building Department

Re: Permit #0511-12 , Simque Aaron, Parcel B Parcel ID. # 03-4s-17-07571-000), SE Carob Gln. Suzanne S/D Lake City, Florida 32025,

Dear Building Official:

Please accept this letter as addendum to the plans for the above referenced house to change all references to FBC 2001 to FBC 2004.

- The plan was drawn prior to the effective date for FBC 2004, 01 October 2005.
- Since the wind load requirements of FBC 2004 remain basically unchanged from FBC 2001 there are no structural changes required to this plan.

Mark Disosway, PE
Florida Registered Professional Engineer

Cc Simque Aaron

Mark Disosway
02 Dec 05

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525
(exp. 10/31/2005)

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

23920

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Aaron Simpson Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 1935 S.E. Torch Glen Lake City, FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 0 Inside 0 Type of Fill 0

Section 4: Treatment Information

Date(s) of Treatment(s) 3-10-06
Brand Name of Product(s) Used Bora-Care
EPA Registration No. 64405-1
Approximate Final Mix Solution % 23%
Approximate Size of Treatment Area: Sq. ft. 3144 Linear ft. 0 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 6
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)

Comments

Name of Applicator(s) Steve Brannen Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature [signature] Date 3-10-06

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

Form **NPCA-99-B** may still be used

form **HUD-NPCA-99-B** (04/2003)

Reorder Product #2581 • from CROWNMAX • 1-800-252-4011

OMB Approval No. 2502-0525
(exp. 10/31/2005)

New Construction Subterranean Termite Soil Treatment Record

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise.

239 20

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control Inc

Company Address: 200 Elm Ridge Terrace City Lake City State FL Zip 32055

Company Business License No. 2B1000016 Company Phone No. 386-752-5024

FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip)

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other

Approximate Depth of Footing: Outside Inside Type of Fill

Section 4: Treatment Information

Date(s) of Treatment(s)

Brand Name of Product(s) Used

EPA Registration No.

Approximate Final Mix Solution %

Approximate Size of Treatment Area: Sq. ft. Linear ft. Linear ft. of Masonry Voids

Approximate Total Gallons of Solution Applied

Was treatment completed on exterior? ☒ Yes ☐ No

Service Agreement Available? ☒ Yes ☐ No

Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)

Comments

Name of Applicator(s) Certification No. (if required by State law) JF10437S

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Date

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form HUD-NPCA-99-B may still be used Form HUD-NPCA-99-B (04/2003)

Source: Product #2581 - from CPCWWMAX • 1-800-232-4011

New Construction Subterranean Termite Soil Treatment Record

OMB Approval No. 2502-0525

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to obtain benefits. HUD may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.
Section 24 CFR 200.926d(b)(3) requires that the sites for HUD insured structures must be free of termite hazards. This information collection requires the builder to certify that an authorized Pest Control company performed all required treatment for termites, and that the builder guarantees the treated area against infestation for one year. Builders, pest control companies, mortgage lenders, homebuyers, and HUD as a record of treatment for specific homes will use the information collected. The information is not considered confidential.

This report is submitted for informational purposes to the builder on proposed (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the builder, architect, or required by the lender, architect, FHA, or VA.

All contracts for services are between the Pest Control Operator and builder, unless stated otherwise. 23920

Section 1: General Information (Treating Company Information)

Company Name: Aspen Pest Control, Inc.
Company Address: 301 NW Cole Terrace City Lake City State FL Zip 32055
Company Business License No. JB109476 Company Phone No. 386-755-3611
FHA/VA Case No. (if any)

Section 2: Builder Information

Company Name: Aaron Simpson Homes Company Phone No.

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 231 SE Torch Glen Lake City, FL

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 0 Inside 0 Type of Fill 0

Section 4: Treatment Information

Date(s) of Treatment(s) 3-14-06
Brand Name of Product(s) Used Bora-Care
EPA Registration No. 64405-1
Approximate Final Mix Solution % 23%
Approximate Size of Treatment Area: Sq. ft. 2144 Linear ft. 0 Linear ft. of Masonry Voids 0
Approximate Total Gallons of Solution Applied 5
Was treatment completed on exterior? ☒ Yes ☐ No
Service Agreement Available? ☒ Yes ☐ No
Note: Some state laws require service agreements to be issued. This form does not preempt state law.

Attachments (List)

Comments

Name of Applicator(s) Steve Brannon Certification No. (if required by State law) JF104376

The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature [signature] Date 3-14-06

Warning: HUD will prosecute false claims and statements. Conviction may result in criminal and/or civil penalties. (18 U.S.C. 1001, 1010. 1012; 31 U.S.C. 3729, 3802)

Reorder Product #2581 • from CROWNMAX • 1-800-252-4011

New Construction Subterranean Termite Soil Treatment Record

OMB Approval: 2502-0555

This form is completed by the licensed Pest Control Company.

Public reporting burden for this collection of information is estimated to average 15 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. This information is mandatory and is required to qualify for HUD insured mortgages. The information collected will be used to determine if the applicant is qualified to receive HUD insured mortgages. Response to this request for information is required to obtain a benefit or to retain a benefit. The information collected will be used to determine if the applicant is qualified to receive HUD insured mortgages. Confidentiality is not assured. Failure to provide the information may result in denial of the benefit requested. Information provided may be disclosed to other government agencies or private parties as required by law or to carry out HUD's mortgage insurance programs. Information provided may be disclosed to other government agencies or private parties as required by law or to carry out HUD's mortgage insurance programs.

This report is submitted for information purposes to the builder or purchaser (new) construction cases when soil treatment for prevention of subterranean termite infestation is specified by the architect, or required by the lender, architect, FHA, or VA.

All conditions for services are between the Pest Control Operator and Builder, unless stated otherwise.

Section 1: General Information (Treating Company information)

Company Name: _____

Company Address: _____ City: _____ State: _____ Zip: _____

Company Business License No.: _____ Company Phone No.: _____

FHA/VA Case No. (if any): _____

Section 2: Builder Information

Company Name: _____ Company Phone No.: _____

Section 3: Property Information

Location in Structure(s) Treated (Street Address or Lot Description, City, State and Zip): _____

Type of Construction (Mark one box only, or check all): ☐ Slab ☐ Basement ☐ Crawl ☐ Other: _____

Approximate Depth of Footing: _____ Inches _____ Type of Fill: _____

Section 4: Treatment Information

Date(s) of Treatment(s): _____

Brand Name or Chemical(s) Used: _____

EPA Registration No.: _____

Approximate Final Mix Solution %: _____

Approximate Area of Treatment Area: Sq. ft. _____ Linear ft. _____ Linear ft. of Masonry Voids _____

Approximate Total Gallons of Solution Applied: _____

Was treatment completed on exterior? ☐ Yes ☐ No

Service Agreement Available? ☐ Yes ☐ No

If yes, Contract state and date and/or service agreement to be issued. This form does not constitute a warranty.

Additional Comments (Text): _____

Comments: _____

Name of Applicator: _____ Certification No. (if required by State law): _____

The applicator has used a product in accordance with the product label and state regulations. All treatment materials and methods were complying with state and federal regulations.

Signature of Applicator: _____ Date: _____

Warning: Any person who knowingly makes a false statement or uses a false document in any matter within the jurisdiction of the Department of Housing and Urban Development may be subject to criminal and civil penalties. (18 U.S.C. 1001, 1010, 1012; 31 U.S.C. 3729, 3802)

Form HUD-NPCA-B (06/2003)

Previous Edition is Obsolete

23920

MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO 63017-5746
Telephone 314/434-1200
Fax 314/434-9110

Re: 8596-2
SIMQUE HOMES (03-4S-17-07571)

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by Reese Building Components, Inc.

Pages or sheets covered by this seal: I9867536 thru I9867549

My license renewal date for the state of Florida is February 28, 2007.

Scott W. Miller, FL Lic #56316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

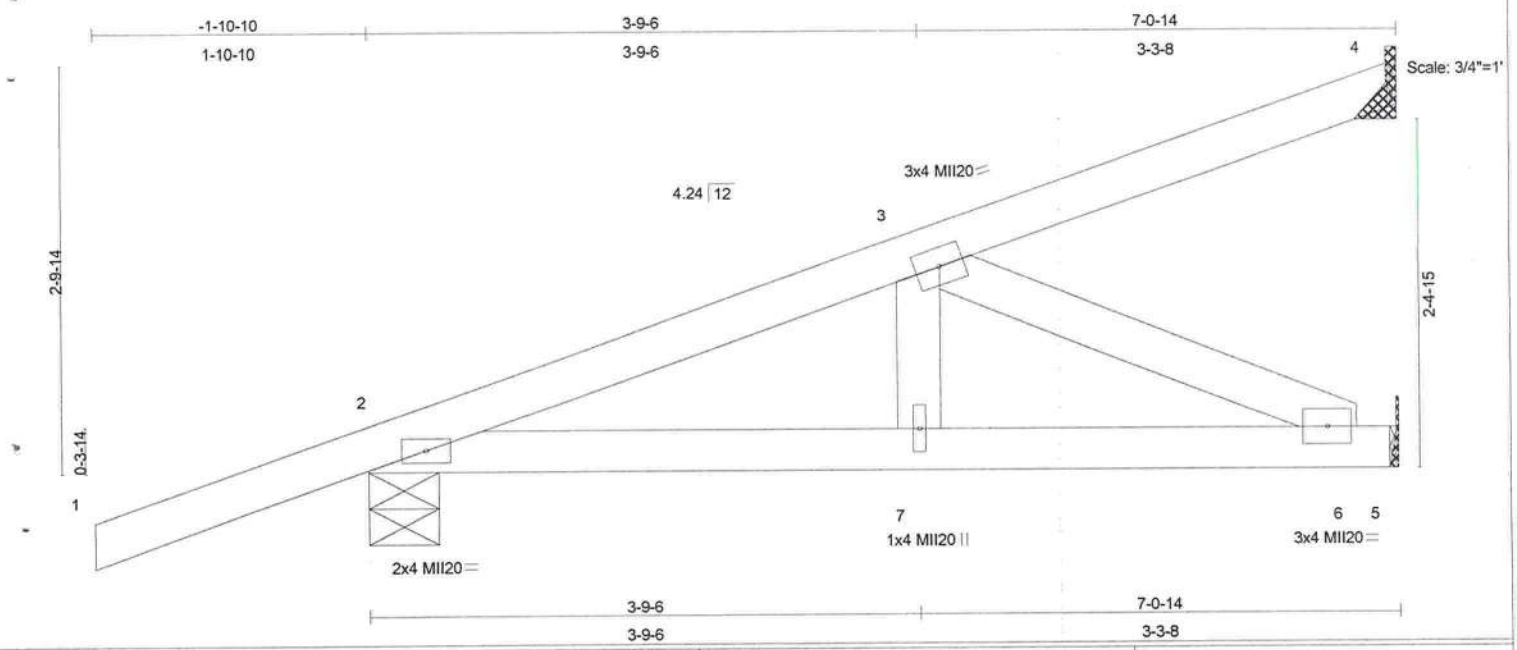
February 17,2006

Miller, Scott

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1995 Sec. 2.

Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	CJ7	ROOF TRUSS	2	1	I9867536 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:04 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.35	Vert(LL)	0.02	6-7	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.31	Vert(TL)	-0.03	6-7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.10	Horz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 31 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 4=16/Mechanical, 2=307/0-5-11, 5=285/Mechanical
Max Horz 2=-62(load case 4)
Max Uplift4=-7(load case 2), 2=-235(load case 2), 5=-114(load case 2)
Max Grav4=35(load case 4), 2=307(load case 1), 5=285(load case 1)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/37, 2-3=-324/101, 3-4=-2/12
BOT CHORD 2-7=-60/285, 6-7=-60/285, 5-6=0/0
WEBS 3-7=-162/308, 3-6=-313/66

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 4, 235 lb uplift at joint 2 and 114 lb uplift at joint 5.
4) 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
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60
Trapezoidal Loads (plf)
Vert: 2=-0(F=10, B=10)-to-5=-141(F=-61, B=-61)

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

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Suite #300
Chesterfield, MO 63017

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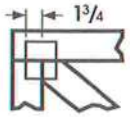
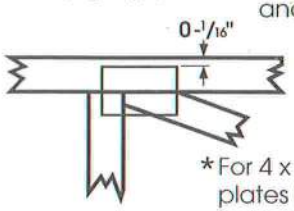
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

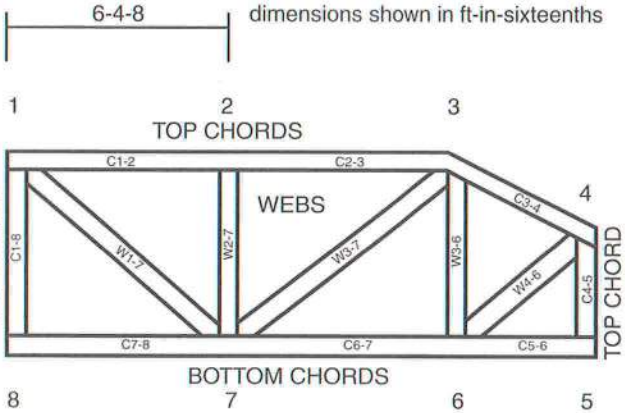
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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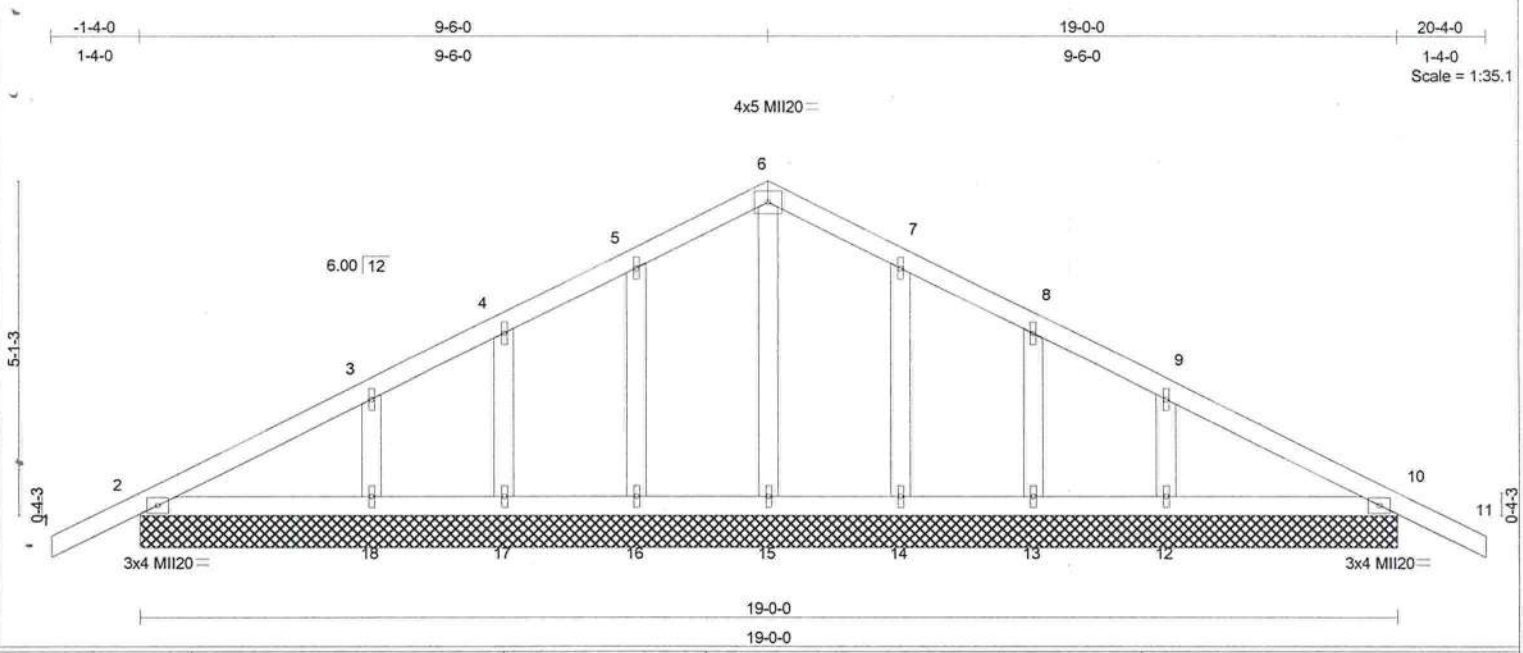
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	G1	ROOF TRUSS	1	1	I9867537 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:04 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.00	11	n/r	120	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.05	Vert(TL)	0.00	10	n/r	90		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 94 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=221/19-0-0, 10=221/19-0-0, 15=144/19-0-0, 16=169/19-0-0, 17=124/19-0-0, 18=254/19-0-0, 14=169/19-0-0, 13=124/19-0-0, 12=254/19-0-0
Max Horz 2=-150(load case 5)
Max Uplift2=-120(load case 4), 10=-149(load case 5), 16=-100(load case 4), 17=-90(load case 4), 18=-134(load case 4), 14=-98(load case 5), 13=-91(load case 5), 12=-134(load case 5)
Max Grav 2=221(load case 1), 10=221(load case 1), 15=144(load case 1), 16=173(load case 6), 17=124(load case 1), 18=254(load case 6), 14=173(load case 7), 13=124(load case 1), 12=254(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-106/75, 3-4=-49/123, 4-5=-38/155, 5-6=-41/187, 6-7=-41/176, 7-8=-38/114, 8-9=-49/60, 9-10=-61/39, 10-11=0/34
BOT CHORD 2-18=0/135, 17-18=0/135, 16-17=0/135, 15-16=0/135, 14-15=0/135, 13-14=0/135, 12-13=0/135, 10-12=0/135
WEBS 6-15=-106/0, 5-16=-130/122, 4-17=-97/105, 3-18=-183/168, 7-14=-130/119, 8-13=-97/105, 9-12=-183/168

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 1x4 MII20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 2, 149 lb uplift at joint 10, 100 lb uplift at joint 16, 90 lb uplift at joint 17, 134 lb uplift at joint 18, 98 lb uplift at joint 14, 91 lb uplift at joint 13 and 134 lb uplift at joint 12.

LOAD CASE(S) Standard

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MiTek Industries, Inc.
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February 17,2006

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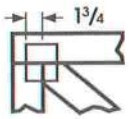
Suite #300
Chesterfield, MO 63017

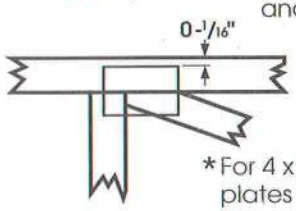
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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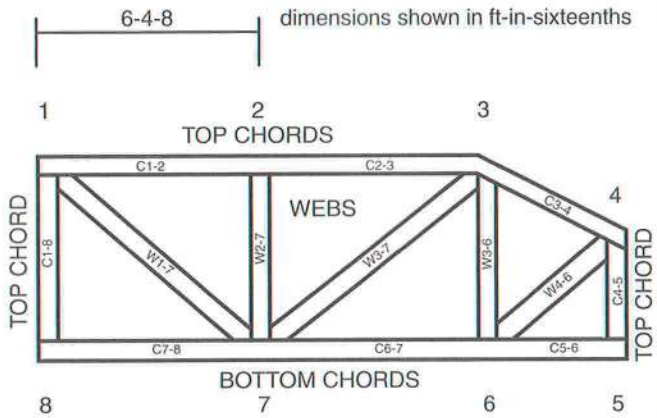
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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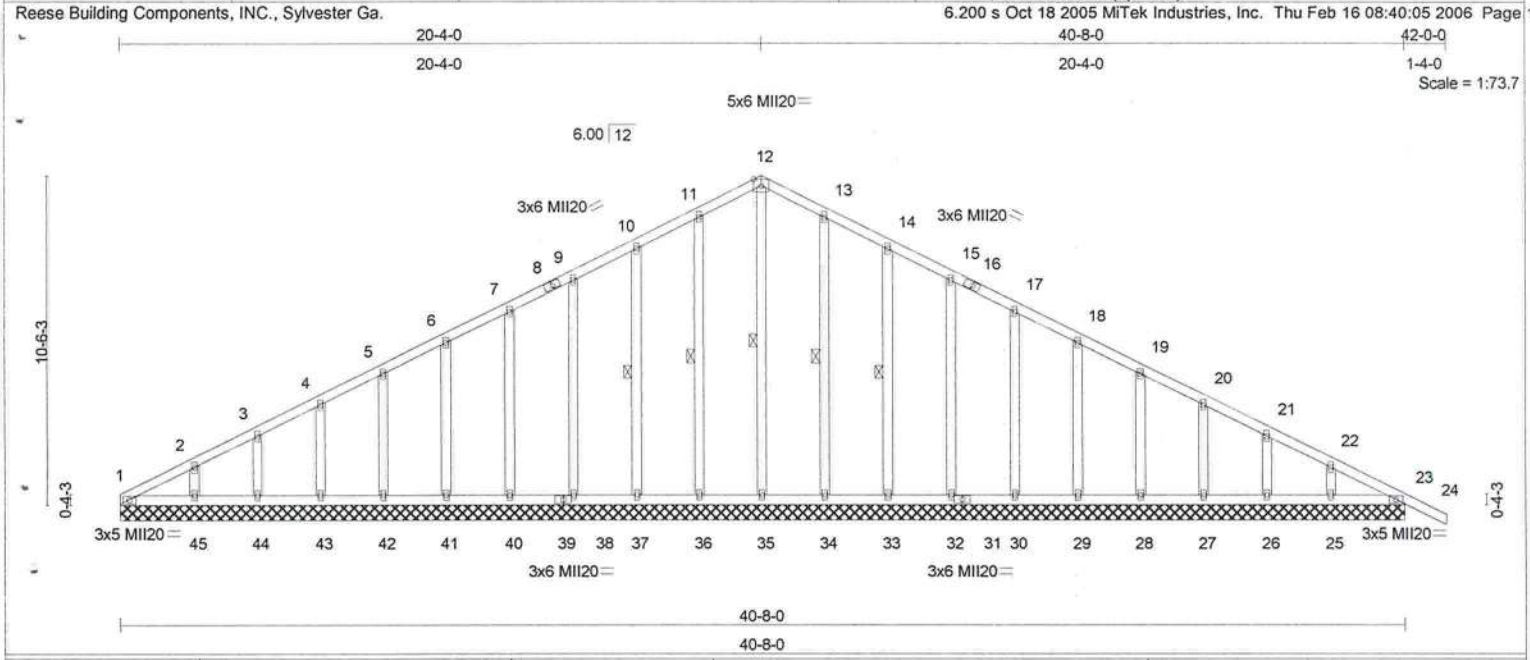
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	G2	ROOF TRUSS	2	1	I9867538 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:05 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	-0.01	24	n/r	120	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.09	Vert(TL)	-0.01	24	n/r	90		
BCLL	0.0	Rep Stress Incr	NO	WB	0.17	Horz(TL)	0.02	23	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 278 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-35, 11-36, 10-37, 13-34, 14-33

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 1=82/40-8-0, 35=148/40-8-0, 36=159/40-8-0, 37=160/40-8-0, 38=160/40-8-0, 40=160/40-8-0, 41=160/40-8-0, 42=159/40-8-0, 43=163/40-8-0, 44=148/40-8-0, 45=201/40-8-0, 34=159/40-8-0, 33=160/40-8-0, 32=160/40-8-0, 30=160/40-8-0, 29=160/40-8-0, 28=160/40-8-0, 27=160/40-8-0, 26=160/40-8-0, 25=162/40-8-0, 23=191/40-8-0
Max Horz 1=-295(load case 5)
Max Uplift 1=-38(load case 5), 36=-83(load case 4), 37=-106(load case 4), 38=-99(load case 4), 40=-100(load case 4), 41=-100(load case 4), 42=-99(load case 4), 43=-102(load case 4), 44=-92(load case 4), 45=-131(load case 4), 34=-75(load case 5), 33=-109(load case 5), 32=-98(load case 5), 30=-100(load case 5), 29=-100(load case 5), 28=-100(load case 5), 27=-97(load case 5), 26=-109(load case 5), 25=-74(load case 5), 23=-72(load case 5)
Max Grav 1=115(load case 4), 35=252(load case 5), 36=163(load case 6), 37=160(load case 1), 38=160(load case 6), 40=160(load case 6), 41=160(load case 1), 42=159(load case 6), 43=163(load case 1), 44=148(load case 6), 45=201(load case 6), 34=163(load case 7), 33=160(load case 1), 32=160(load case 7), 30=160(load case 7), 29=160(load case 1), 28=160(load case 7), 27=160(load case 1), 26=160(load case 7), 25=162(load case 7), 23=191(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-324/68, 2-3=-249/107, 3-4=-188/141, 4-5=-125/177, 5-6=-63/213, 6-7=-41/248, 7-8=-41/279, 8-9=-2/284, 9-10=-41/318, 10-11=-41/357, 11-12=-41/380, 12-13=-41/369, 13-14=-41/318, 14-15=-41/251, 15-16=-3/189, 16-17=-41/185, 17-18=-41/130, 18-19=-41/94, 19-20=-41/59, 20-21=-70/29, 21-22=-133/17, 22-23=-196/20, 23-24=0/34
BOT CHORD 1-45=0/259, 44-45=0/259, 43-44=0/259, 42-43=0/259, 41-42=0/259, 40-41=0/259, 39-40=0/259, 38-39=0/259, 37-38=0/259, 36-37=0/259, 35-36=0/259, 34-35=0/259, 33-34=0/259, 32-33=0/259, 31-32=0/259, 30-31=0/259, 29-30=0/259, 28-29=0/259, 27-28=0/259, 26-27=0/259, 25-26=0/259, 23-25=0/259
WEBS 12-35=-232/0, 11-36=-123/103, 10-37=-120/126, 9-38=-120/119, 7-40=-120/120, 6-41=-120/120, 5-42=-120/119, 4-43=-122/121, 3-44=-113/115, 2-45=-143/142, 13-34=-123/95, 14-33=-120/129, 15-32=-120/118, 17-30=-120/120, 18-29=-120/120, 19-28=-120/120, 20-27=-120/119, 21-26=-119/122, 22-25=-124/115

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Truss designed for wind loads in the plane of the truss only.
4) All plates are 2x4 MII20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.

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Continued on page 2

February 17,2006

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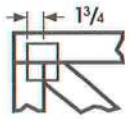
Suite #300
Chesterfield, MO 63017

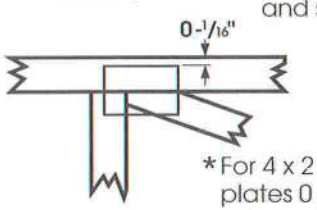
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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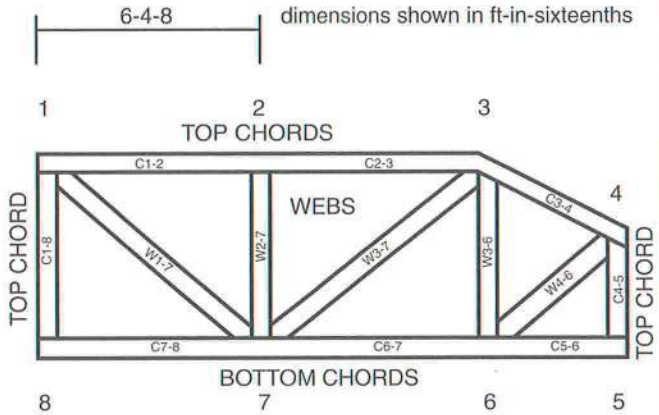
Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
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4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
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13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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NOTES

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 83 lb uplift at joint 36, 106 lb uplift at joint 37, 99 lb uplift at joint 38 , 100 lb uplift at joint 40, 100 lb uplift at joint 41, 99 lb uplift at joint 42, 102 lb uplift at joint 43, 92 lb uplift at joint 44, 131 lb uplift at joint 45, 75 lb uplift at joint 34, 109 lb uplift at joint 33, 98 lb uplift at joint 32, 100 lb uplift at joint 30, 100 lb uplift at joint 29, 100 lb uplift at joint 28, 97 lb uplift at joint 27, 109 lb uplift at joint 26, 74 lb uplift at joint 25 and 72 lb uplift at joint 23.

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE 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. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

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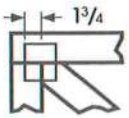
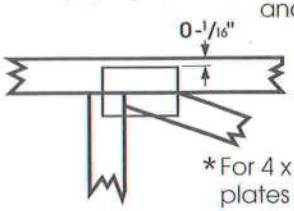
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

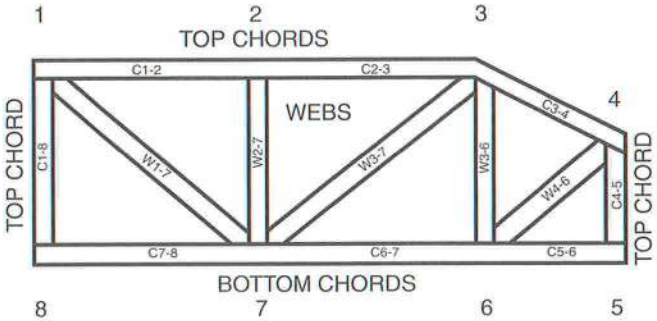
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 — dimensions shown in ft-in-sixteenths



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.

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	H1	ROOF TRUSS	1	2	I9867539 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:05 2006 Page 1

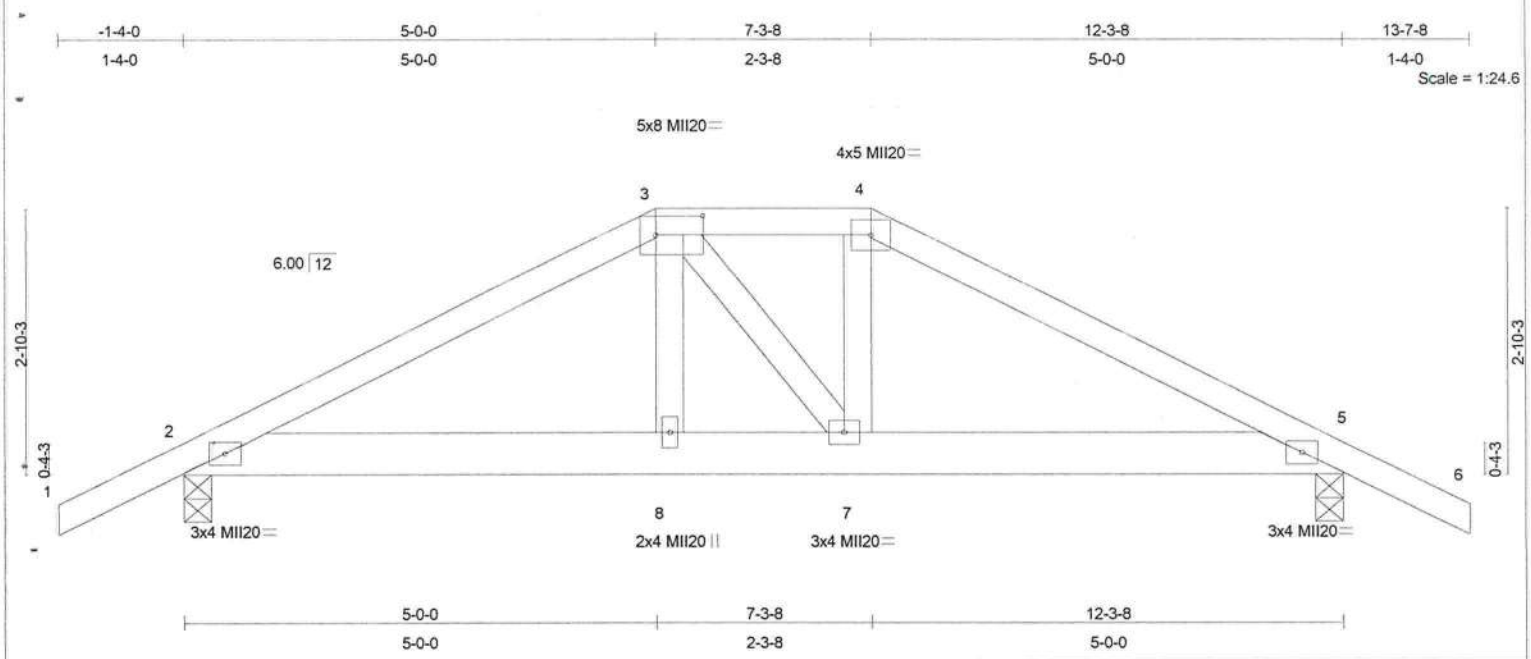

Plate Offsets (X,Y): [3:0-6-0,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	0.01	8	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.12	Vert(TL)	-0.02	8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(TL)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 128 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=858/0-3-8, 5=858/0-3-8
Max Horz 2=-98(load case 5)
Max Uplift2=-432(load case 4), 5=-432(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-1341/533, 3-4=-1157/534, 4-5=-1345/534, 5-6=0/38
BOT CHORD 2-8=-435/1135, 7-8=-440/1154, 5-7=-398/1138
WEBS 3-8=-101/323, 3-7=-81/92, 4-7=-138/380

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
5) Provide adequate drainage to prevent water ponding.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 432 lb uplift at joint 2 and 432 lb uplift at joint 5.
7) Girder carries hip end with 5-0-0 end setback.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 233 lb down and 133 lb up at 7-3-8, and 233 lb down and 133 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-98(F=-38), 4-6=-60, 2-8=-20, 7-8=-33(F=-13), 5-7=-20

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Chesterfield, MO, 63017
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Continued on page 2

February 17,2006

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Suite #300
Chesterfield, MO 63017

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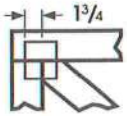
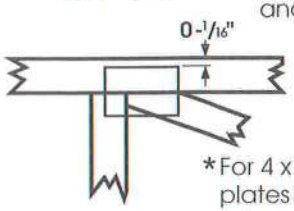
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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DSB-89: Design Standard for Bracing.
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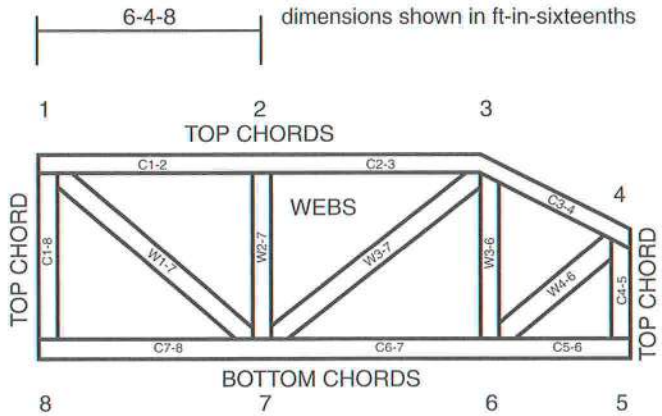
Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

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2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
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15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-233(F) 7=-233(F)

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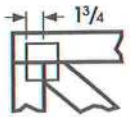
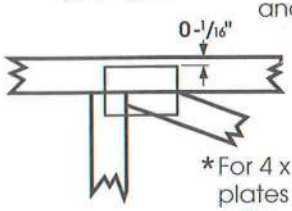
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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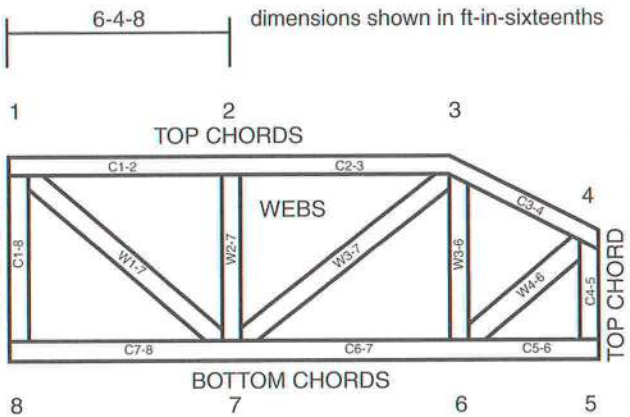
Numbering System



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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J1	ROOF TRUSS	4	1	I9867540 Job Reference (optional)

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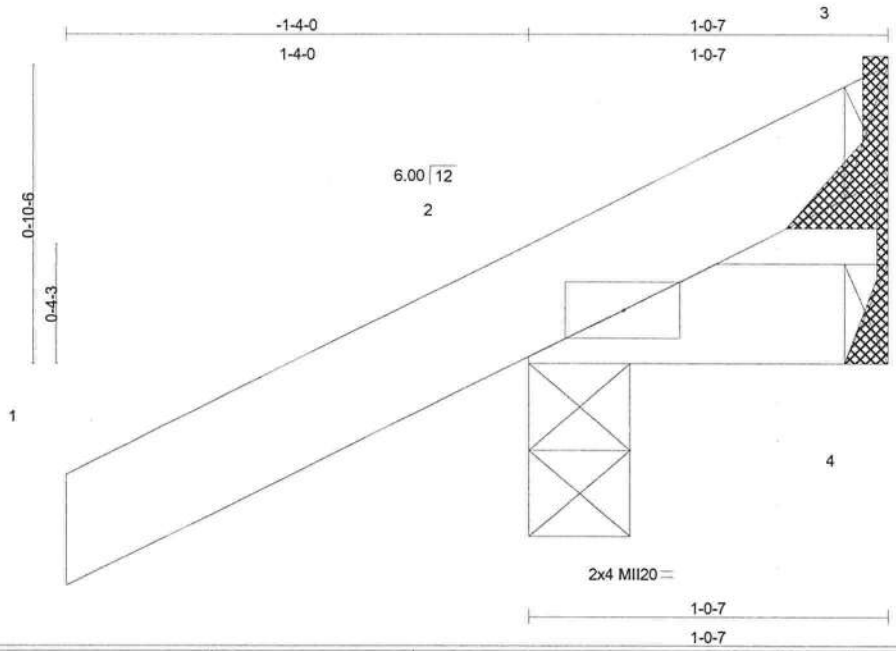

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.14	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.00	Vert(TL)	-0.00	2	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 6 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 1-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=178/0-3-8, 4=10/Mechanical, 3=-28/Mechanical
Max Horz 2=79(load case 4)
Max Uplift2=-183(load case 4), 3=-28(load case 1)
Max Grav 2=178(load case 1), 4=10(load case 1), 3=50(load case 4)

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FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/34, 2-3=-42/24
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 2 and 28 lb uplift at joint 3.

LOAD CASE(S) Standard

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February 17,2006

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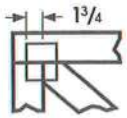
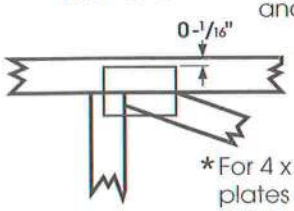
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

PLATE SIZE

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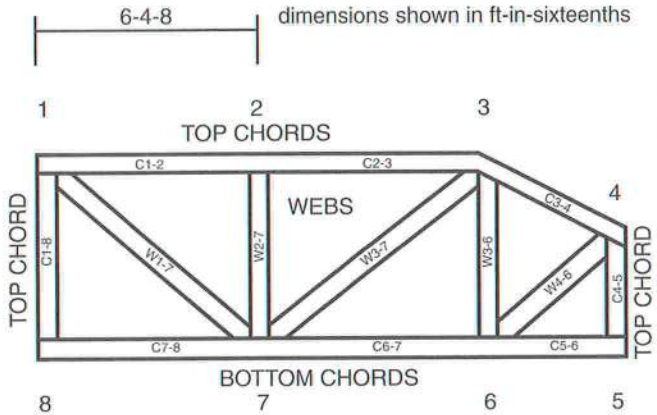

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BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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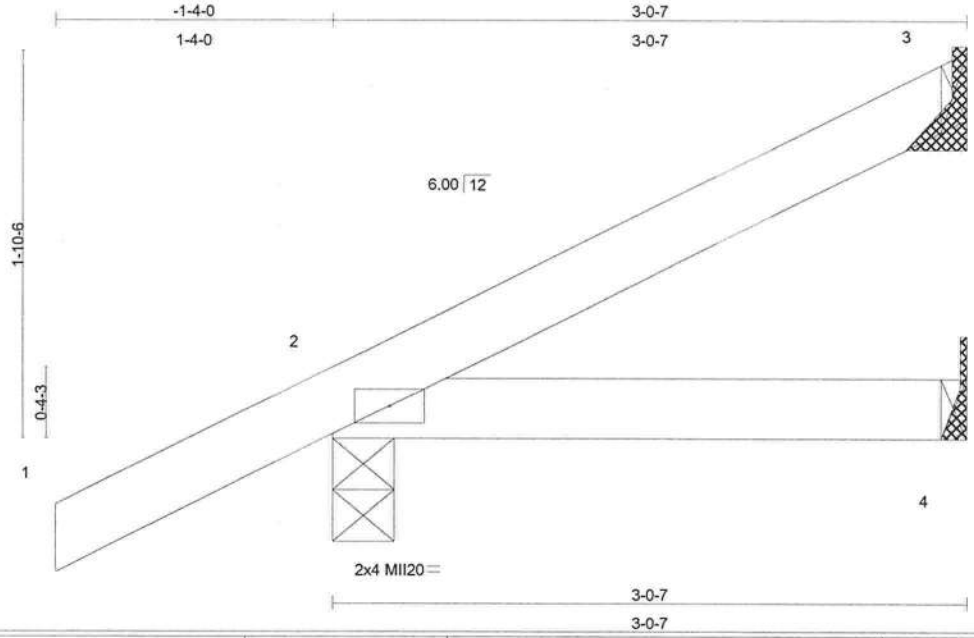
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J3	ROOF TRUSS	4	1	I9867541 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:06 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.15	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.04	Vert(TL)	-0.00	2-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 12 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 3-0-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 3=58/Mechanical, 2=223/0-3-8, 4=28/Mechanical
Max Horz 2=132(load case 4)
Max Uplift3=-53(load case 4), 2=-160(load case 4)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-51/20
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3 and 160 lb uplift at joint 2.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

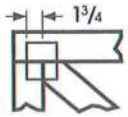
WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

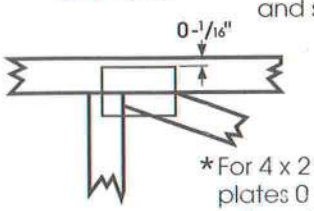
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

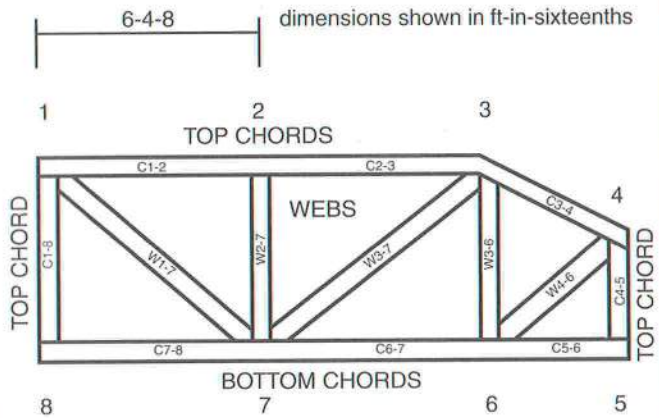
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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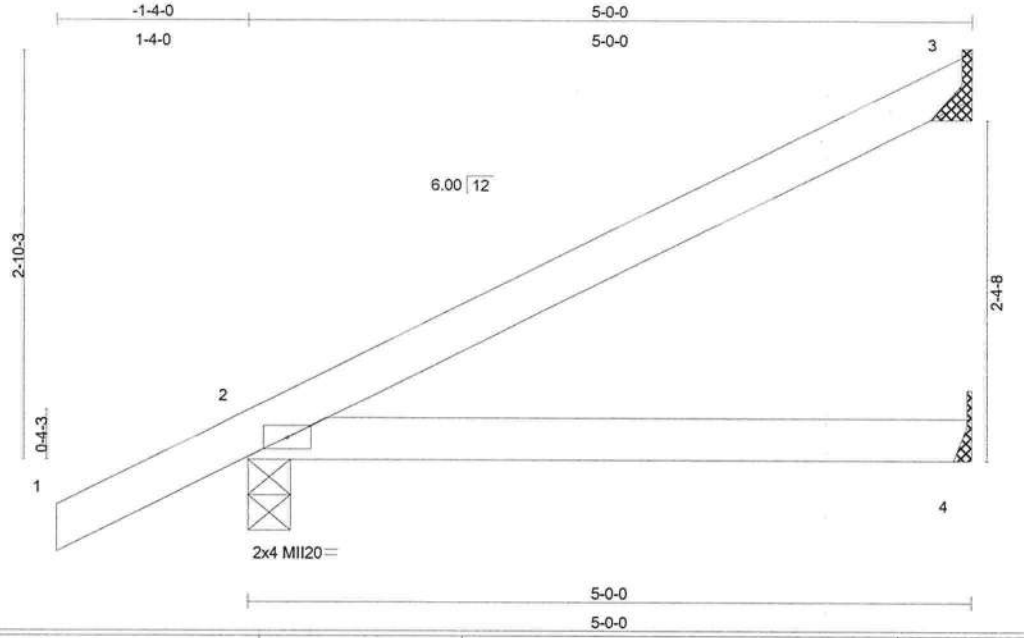
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	J5	ROOF TRUSS	2	1	I9867542 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:06 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.00	2	****	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.10	Vert(TL)	-0.03	2-4	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 18 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 3=127/Mechanical, 2=292/0-3-8, 4=48/Mechanical
Max Horz 2=187(load case 4)
Max Uplift3=-125(load case 4), 2=-168(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-80/46
BOT CHORD 2-4=0/0

NOTES
1) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 125 lb uplift at joint 3 and 168 lb uplift at joint 2.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

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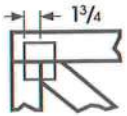
14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

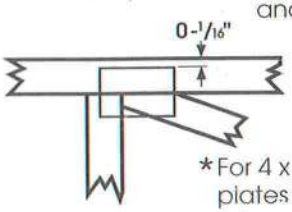
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

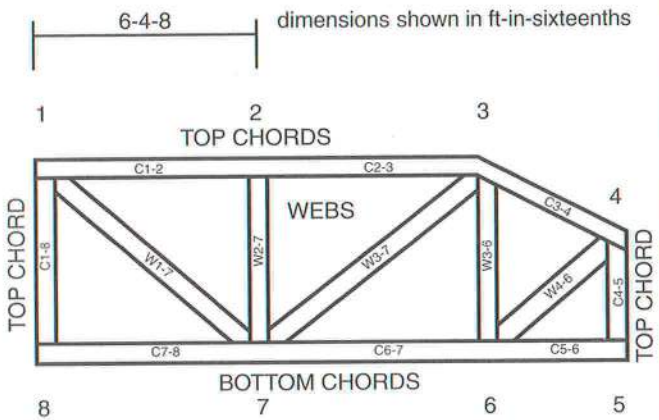
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	S1	ROOF TRUSS	3	1	I9867543 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga.

6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:07 2006 Page 1

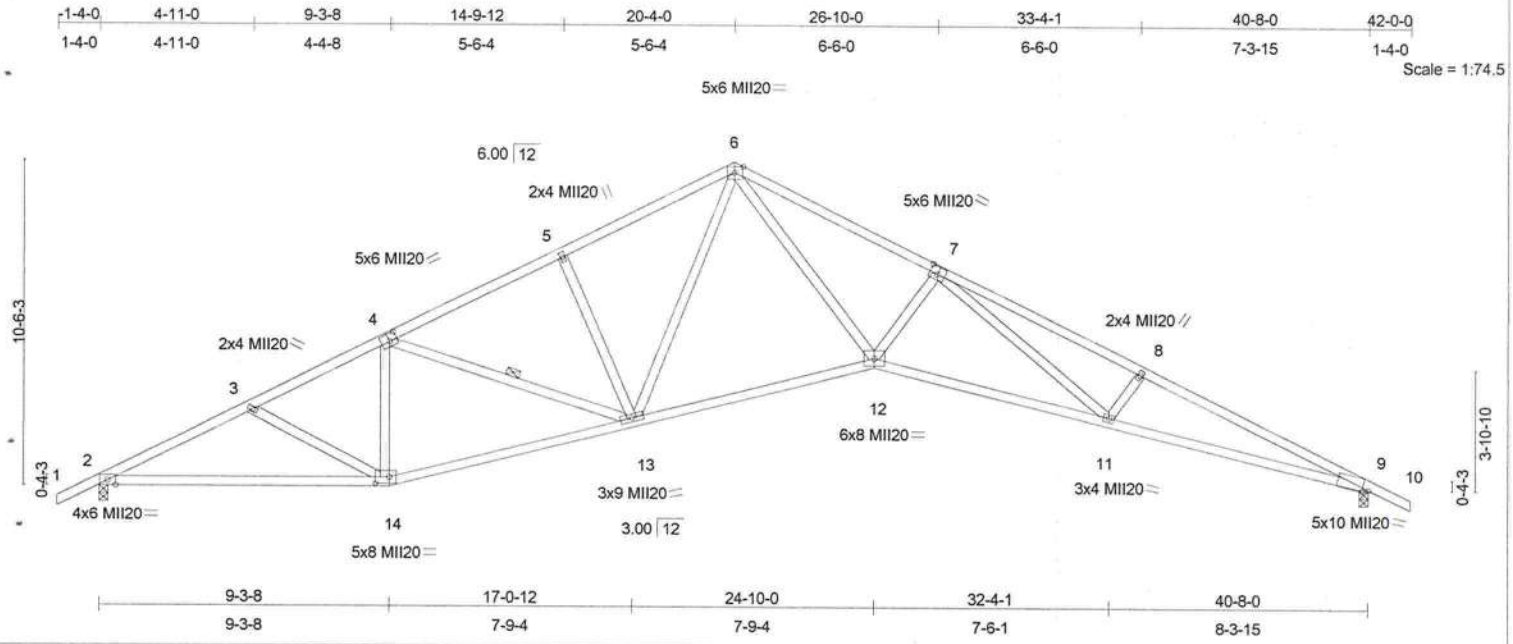

Plate Offsets (X,Y): [4:0-3-0,0-3-0], [6:0-3-4,Edge], [7:0-3-0,0-3-0], [9:0-2-7,Edge], [14:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.99	Vert(LL)	0.48	11-12	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.94	11-12	>518	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.52	9	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 211 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2 *Except* 7-10 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2 *Except* 9-12 2 X 4 SYP No.1
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 5-2-13 oc bracing.
WEBS 1 Row at midpt 4-13

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=1704/0-3-8, 9=1704/0-3-8
Max Horz 2=280(load case 4)
Max Uplift2=-674(load case 4), 9=-674(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-3083/1084, 3-4=-2831/967, 4-5=-2873/983, 5-6=-2740/1025, 6-7=-4328/1272, 7-8=-5465/1765, 8-9=-5693/1774, 9-10=0/33
BOT CHORD 2-14=-1107/2692, 13-14=-929/2571, 12-13=-532/2287, 11-12=-999/4278, 9-11=-1465/5144
WEBS 3-14=-255/241, 4-14=-327/198, 4-13=-94/134, 5-13=-312/307, 6-13=-372/622, 6-12=-715/2742, 7-12=-621/507, 7-11=-532/947, 8-11=-299/341

NOTES

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 2 and 674 lb uplift at joint 9.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
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14515 N. Outer Forty,
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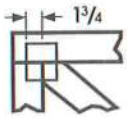
Chesterfield, MO 63017

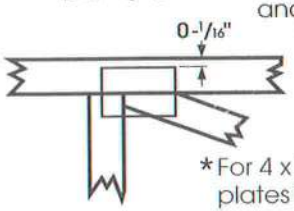
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

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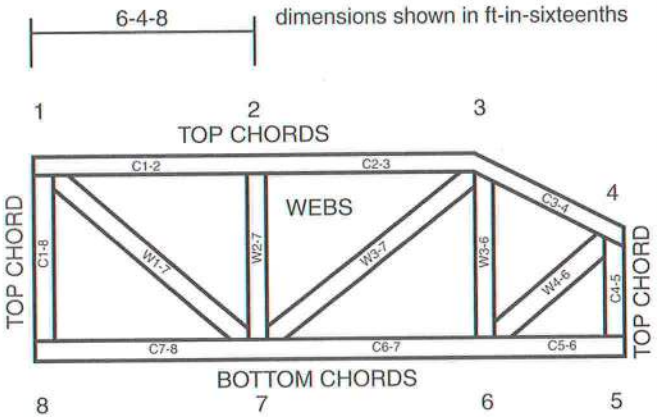
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
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MiTek®

TEE-LOK®

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2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
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13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	S2	ROOF TRUSS	5	1	I9867544 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:07 2006 Page 1

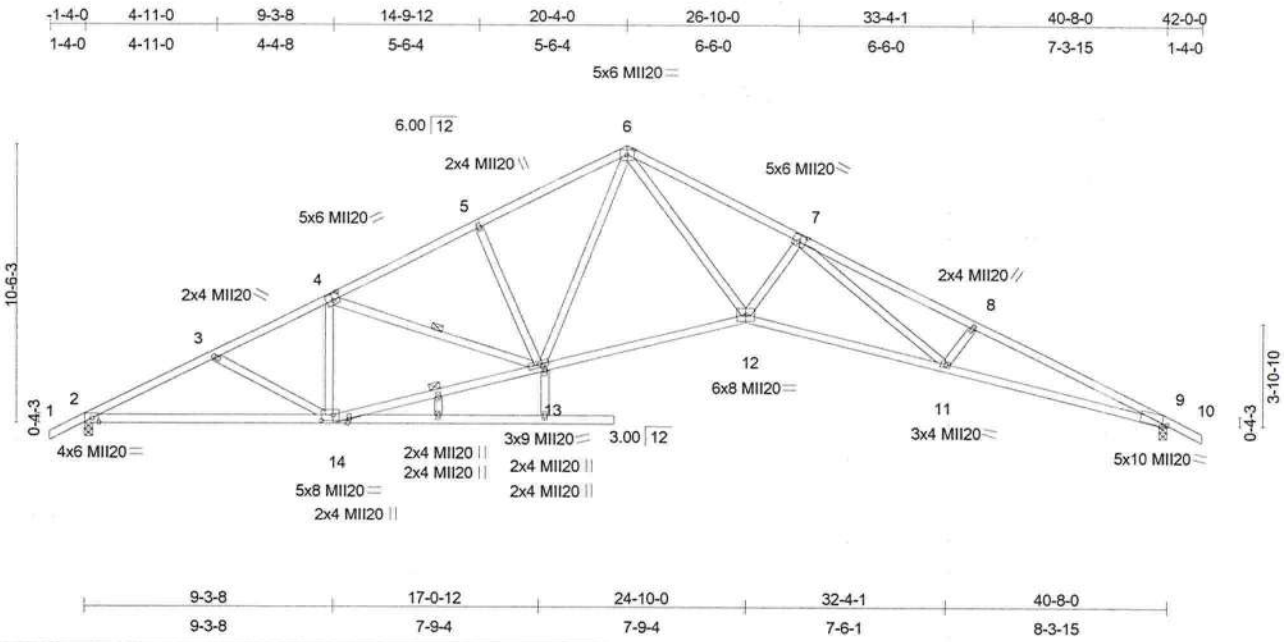


Plate Offsets (X,Y): [4:0-3-0,0-3-0], [6:0-3-4,Edge], [7:0-3-0,0-3-0], [9:0-2-6,Edge], [13:0-1-13,0-1-0], [14:0-5-4,0-2-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.99	Vert(LL)	0.48	11-12	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.98	Vert(TL)	-0.93	11-12	>518	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.88	Horz(TL)	0.52	9	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 230 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
7-10 2 X 4 SYP No.2D
BOT CHORD 2 X 4 SYP No.2 *Except*
9-12 2 X 4 SYP No.1
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed.
BOT CHORD Rigid ceiling directly applied or 5-2-14 oc bracing. Except:
1 Row at midpt 13-14
WEBS 1 Row at midpt 4-13

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=1704/0-3-8, 9=1704/0-3-8
Max Horz 2=280(load case 4)
Max Uplift2=-674(load case 4), 9=-674(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-3081/1084, 3-4=-2829/966, 4-5=-2872/983, 5-6=-2740/1025, 6-7=-4326/1272, 7-8=-5460/1764, 8-9=-5689/1773, 9-10=0/33
BOT CHORD 2-14=-1107/2690, 13-14=-929/2570, 12-13=-532/2287, 11-12=-998/4276, 9-11=-1464/5139
WEBS 3-14=-253/241, 4-14=-327/198, 4-13=-94/134, 5-13=-312/307, 6-13=-372/622, 6-12=-715/2741, 7-12=-621/507, 7-11=-531/945, 8-11=-298/340

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 674 lb uplift at joint 2 and 674 lb uplift at joint 9.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

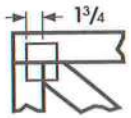
WARNING - Verify design parameters and READ NOTES ON THIS AND REVERSE SIDE BEFORE USE.
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

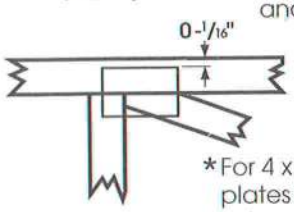
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

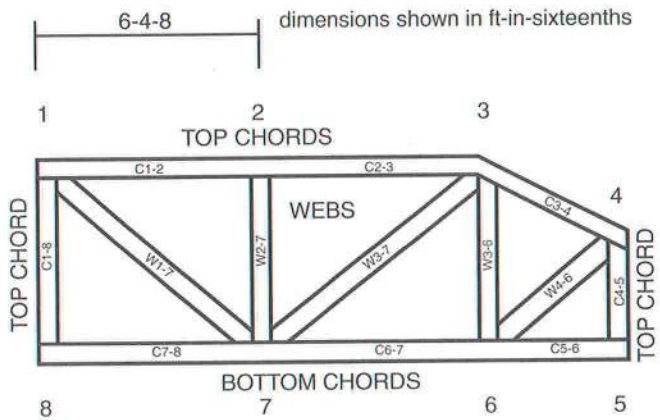
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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TEE-LOK®

⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T1	ROOF TRUSS	2	1	I9867545 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:07 2006 Page 1

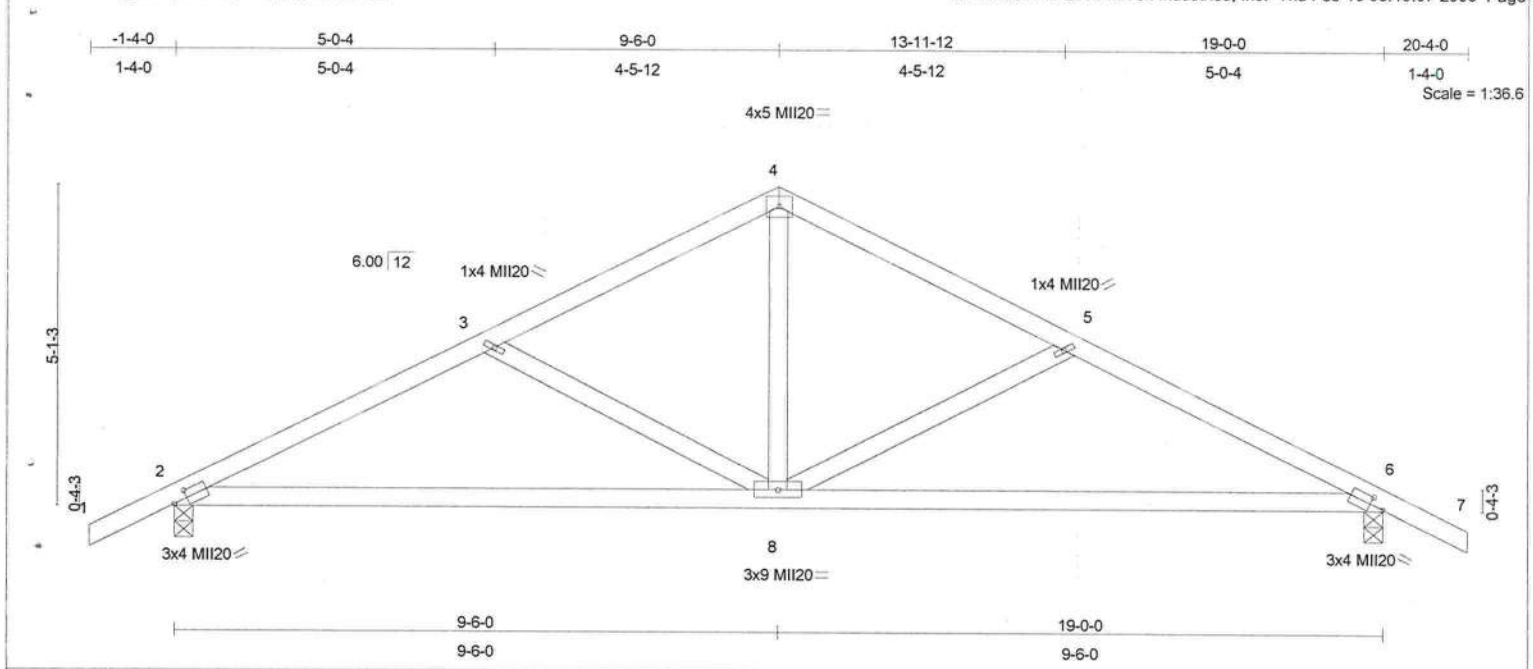

Plate Offsets (X,Y): [2:0-2-10,0-1-8], [6:0-2-10,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.25	Vert(LL)	0.04	6-8	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.42	Vert(TL)	-0.17	2-8	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 86 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 5-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-10-4 oc bracing.

REACTIONS (lb/size) 2=837/0-3-8, 6=837/0-3-8
Max Horz 2=-150(load case 5)
Max Uplift2=-369(load case 4), 6=-369(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-1228/434, 3-4=-931/313, 4-5=-931/313, 5-6=-1228/435, 6-7=0/35
BOT CHORD 2-8=-402/1052, 6-8=-253/1052
WEBS 3-8=-334/292, 4-8=-97/506, 5-8=-334/293

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 2 and 369 lb uplift at joint 6.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

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14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

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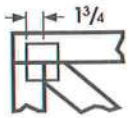
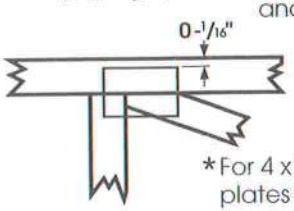
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

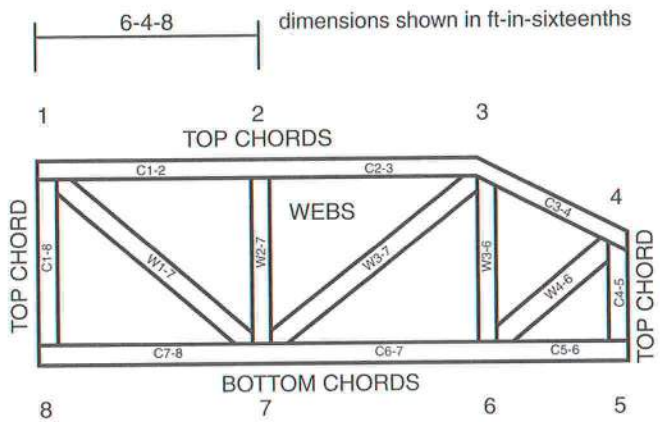
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T2	ROOF TRUSS	1	2	I9867546 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga.

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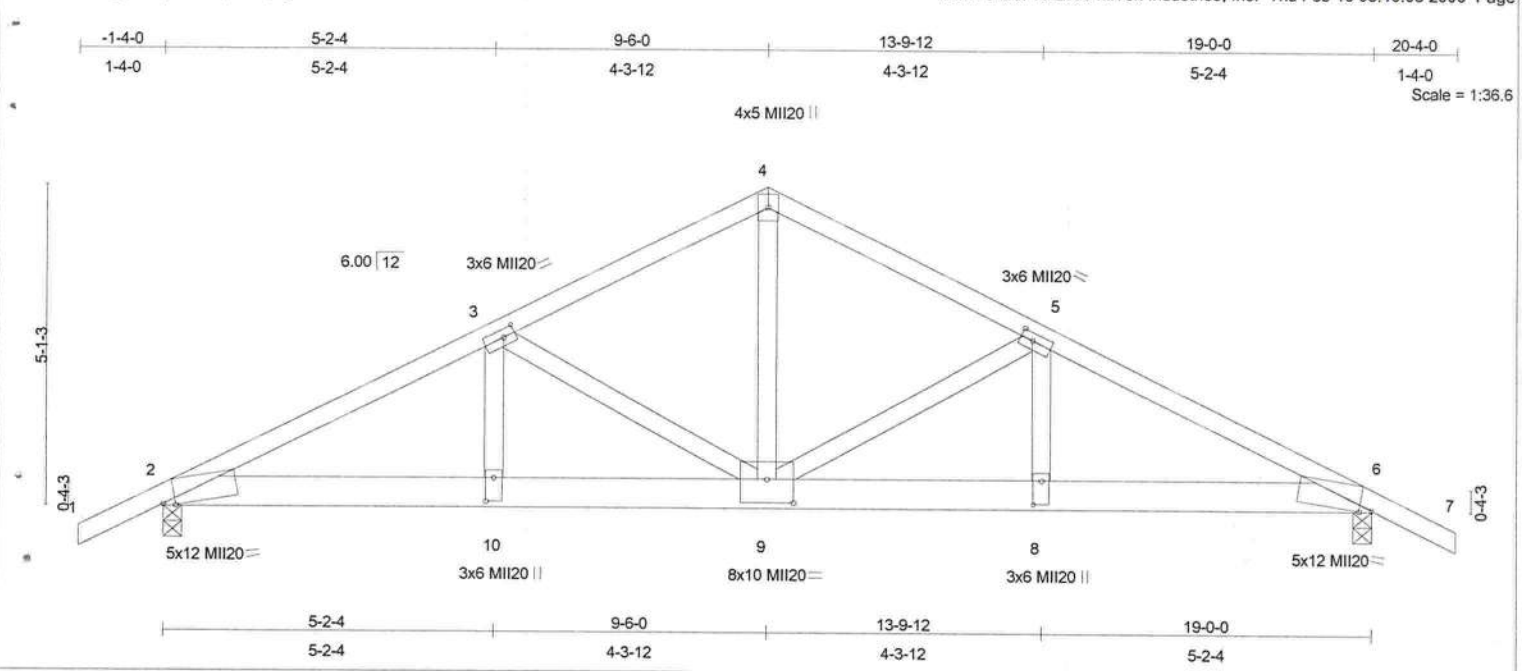

Plate Offsets (X,Y): [2:0-2-5,Edge], [3:0-2-4,0-1-8], [5:0-2-4,0-1-8], [6:0-2-5,Edge], [8:0-4-8,0-1-8], [9:0-5-0,0-4-8], [10:0-4-8,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.92	Vert(LL)	0.22	9-10	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.74	Vert(TL)	-0.32	8-9	>705	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.73	Horz(TL)	0.09	6	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 215 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP SS
WEBS 2 X 4 SYP No.3 *Except*
4-9 2 X 4 SYP No.2

BRACING
TOP CHORD Sheathed or 2-5-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-15 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 2=8079/0-4-12 (input: 0-3-8), 6=8079/0-4-12 (input: 0-3-8)
Max Horz 2=-152(load case 5)
Max Uplift2=-3617(load case 4), 6=-3617(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/38, 2-3=-13455/5859, 3-4=-9221/4060, 4-5=-9221/4061, 5-6=-13455/5860, 6-7=0/38
BOT CHORD 2-10=-5251/11979, 9-10=-5251/11979, 8-9=-5114/11979, 6-8=-5114/11979
WEBS 3-10=-1654/3882, 3-9=-4399/2037, 4-9=-3453/7897, 5-9=-4399/2039, 5-8=-1654/3882

NOTES
1) 2-ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
5) WARNING: Required bearing size at joint(s) 2, 6 greater than input bearing size.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3617 lb uplift at joint 2 and 3617 lb uplift at joint 6.
7) Girder carries tie-in span(s): 41-0-0 from 0-0-0 to 19-0-0

LOAD CASE(S) Standard
1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-7=-60, 2-6=-794(F=-774)

Scott W. Miller, FL Lic #58316
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February 17,2006

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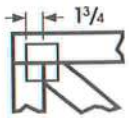
14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

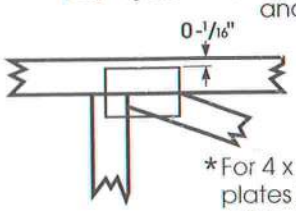
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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BEARING

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Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
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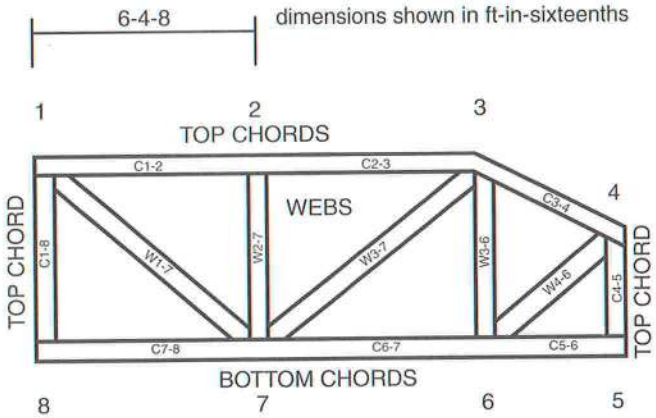
Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

MiTek®

TEE-LOK®

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7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T3	ROOF TRUSS	15	1	I9867547 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:08 2006 Page 1

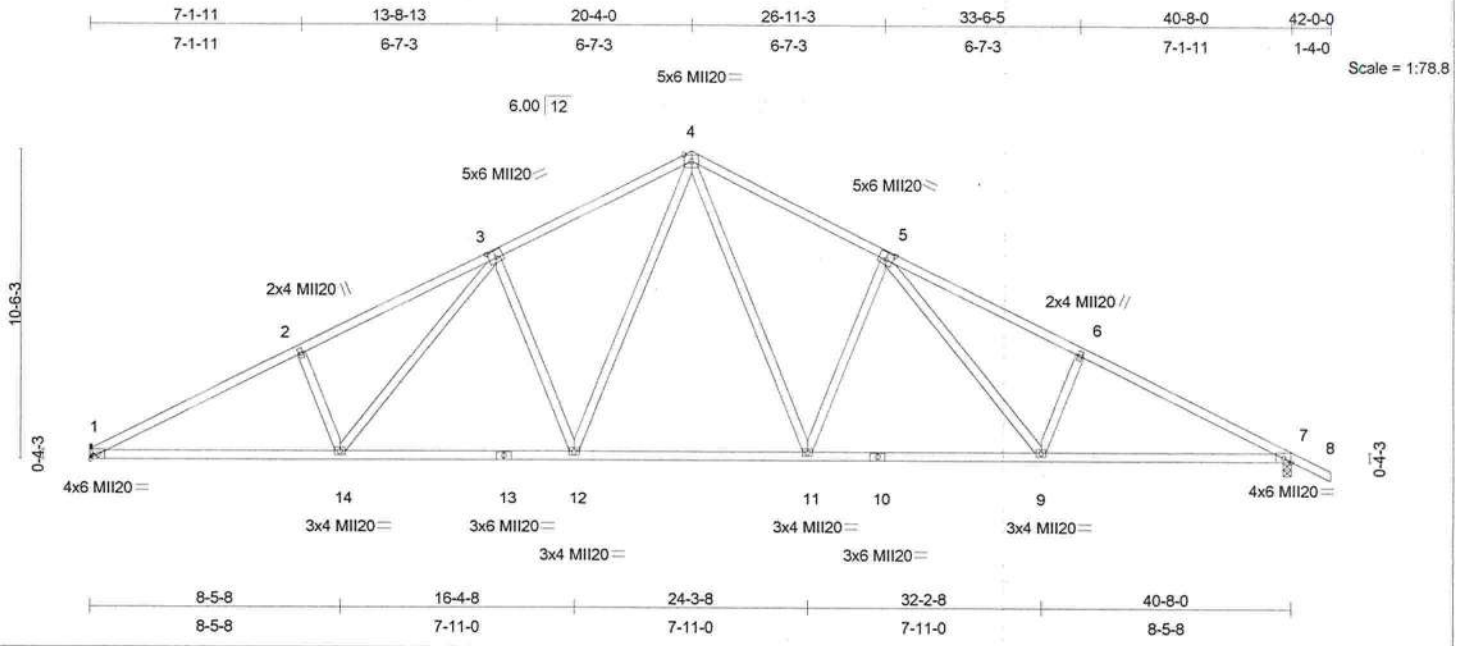

Plate Offsets (X,Y): [3:0-3-0,0-3-0], [5:0-3-0,0-3-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.54	Vert(LL)	0.20	1-14	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.76	Vert(TL)	-0.38	11-12	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(TL)	0.13	7	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 219 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-1-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-9-10 oc bracing.

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

REACTIONS (lb/size) 1=1613/Mechanical, 7=1705/0-3-8
Max Horz 1=-295(load case 5)
Max Uplift1=-571(load case 4), 7=-674(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-3076/1056, 2-3=-2923/1123, 3-4=-2212/888, 4-5=-2211/882, 5-6=-2908/1100, 6-7=-3062/1033, 7-8=0/35
BOT CHORD 1-14=-1061/2660, 13-14=-720/2134, 12-13=-720/2134, 11-12=-379/1612, 10-11=-501/2131, 9-10=-501/2131, 7-9=-756/2645
WEBS 2-14=-361/366, 3-14=-347/663, 3-12=-655/514, 4-12=-424/816, 4-11=-420/813, 5-11=-650/507, 5-9=-326/647, 6-9=-354/357

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 571 lb uplift at joint 1 and 674 lb uplift at joint 7.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

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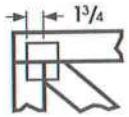
Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI1 Quality Criteria, DSB-89 and BCSI1 Building Component Safety Information available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

14515 N. Outer Forty,
Suite #300
Chesterfield, MO 63017

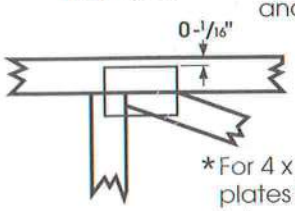
MiTek®

Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

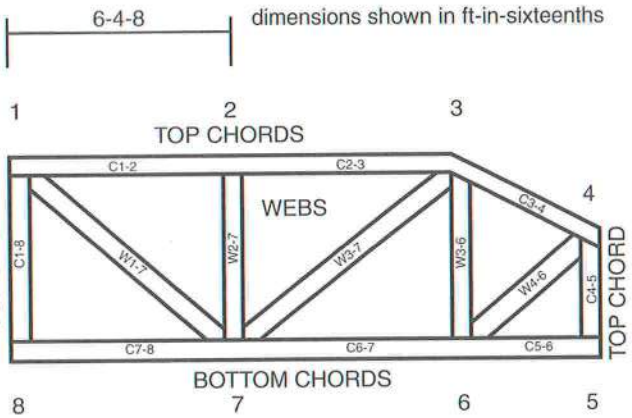
BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI1: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

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

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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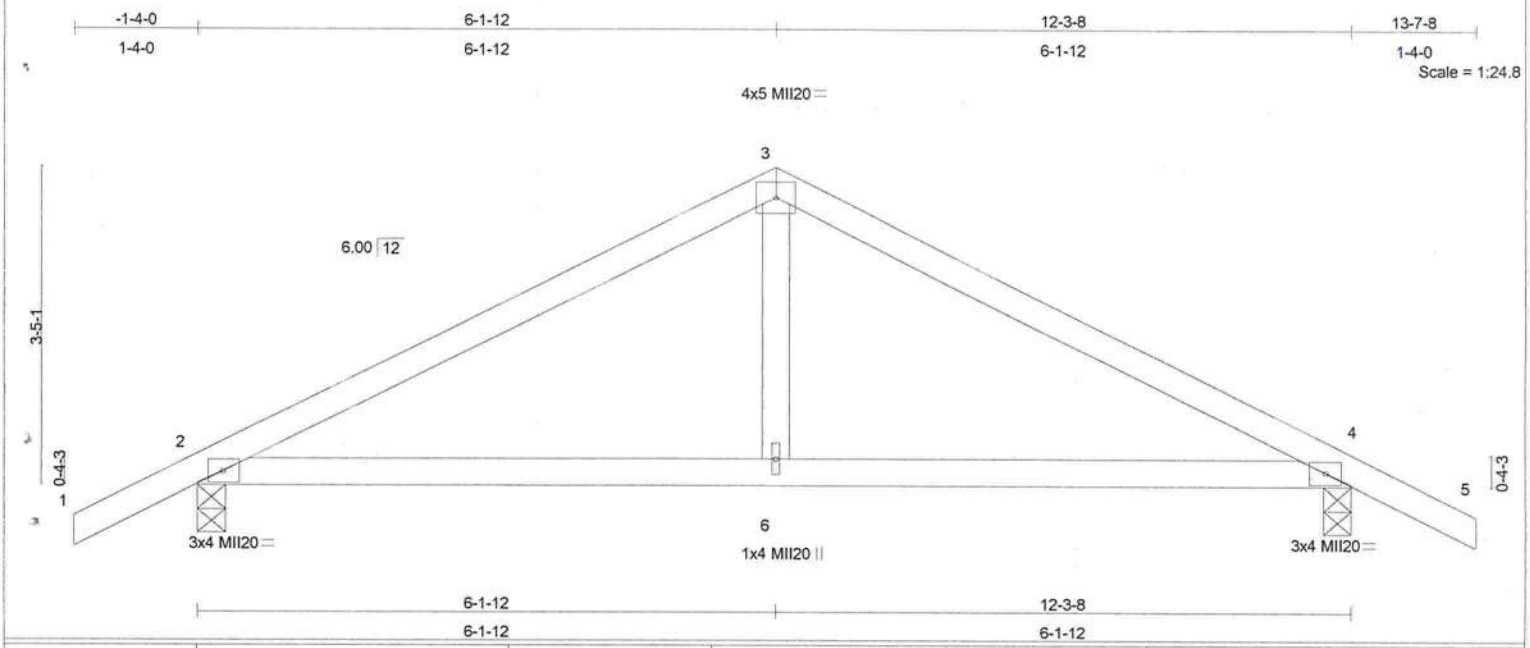
Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	T6	ROOF TRUSS	3	1	I9867548 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:08 2006 Page 1



LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.29	Vert(LL)	0.03	2-6	>999	360	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.27	Vert(TL)	-0.06	2-6	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 48 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=569/0-3-8, 4=569/0-3-8
Max Horz 2=-109(load case 5)
Max Uplift2=-276(load case 4), 4=-276(load case 5)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/35, 2-3=-684/211, 3-4=-684/210, 4-5=0/35
BOT CHORD 2-6=-116/542, 4-6=-116/542
WEBS 3-6=0/162

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 2 and 276 lb uplift at joint 4.

LOAD CASE(S) Standard

Scott W. Miller, FL Lic #58316
MiTek Industries, Inc.
14515 North Outer Forty Drive
Suite 300
Chesterfield, MO, 63017
FL Cert.#6634

February 17,2006

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14515 N. Outer Forty,
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Chesterfield, MO 63017

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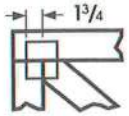
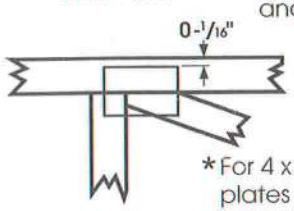
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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

BEARING

Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Industry Standards:

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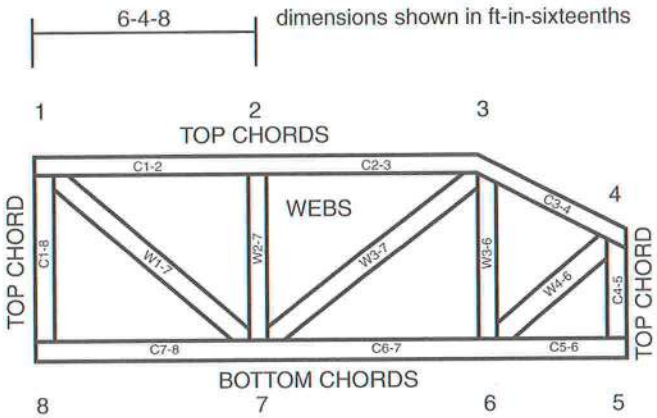
Numbering System



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CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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⚠General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI1.
2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
6. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
7. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
8. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
9. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
10. Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
11. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
12. Top chords must be sheathed or purlins provided at spacing shown on design.
13. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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Job	Truss	Truss Type	Qty	Ply	SIMQUE HOMES (03-4S-17-07571)
8596-2	V11	ROOF TRUSS	1	1	I9867549 Job Reference (optional)

Reese Building Components, INC., Sylvester Ga. 6.200 s Oct 18 2005 MiTek Industries, Inc. Thu Feb 16 08:40:09 2006 Page 1

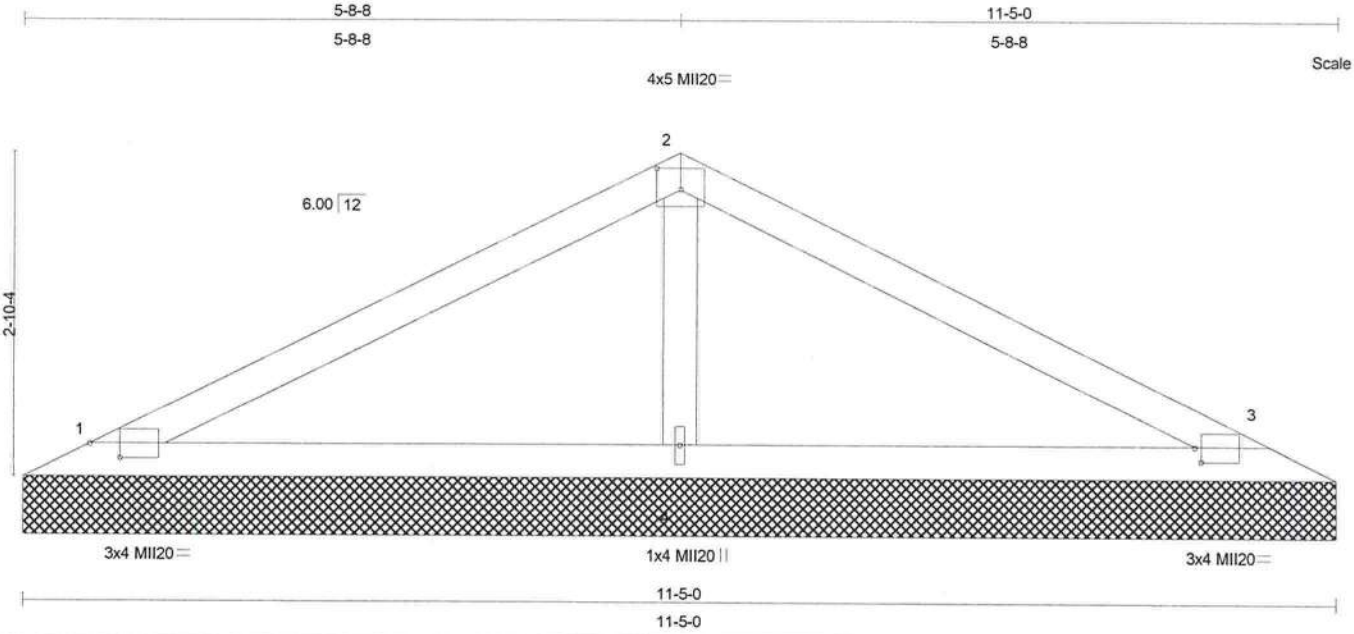

Plate Offsets (X,Y): [1:0-3-3,0-1-8], [2:0-2-8,0-2-4], [3:0-0-11,0-1-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plates Increase	1.25	TC	0.22	Vert(LL)	n/a	-	n/a	999	MII20	249/190
TCDL	10.0	Lumber Increase	1.25	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)							Weight: 37 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 1=174/11-5-0, 3=174/11-5-0, 4=466/11-5-0
Max Horz 1=61(load case 4)
Max Uplift1=-78(load case 4), 3=-89(load case 5), 4=-133(load case 4)
Max Grav 1=180(load case 6), 3=180(load case 7), 4=466(load case 1)

This truss design is based upon the building code shown. This code has been specified by the project engineer/architect, or building designer. The applicability of this code in any particular jurisdiction should be confirmed with the building official prior to truss fabrication. This determination is not the responsibility of the component/truss designer.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-105/83, 2-3=-105/57
BOT CHORD 1-4=-7/43, 3-4=-7/43
WEBS 2-4=-310/161

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 110mph (3-second gust); h=15ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed; MWFRS gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
3) Gable requires continuous bottom chord bearing.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 1, 89 lb uplift at joint 3 and 133 lb uplift at joint 4.

LOAD CASE(S) Standard

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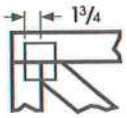
Symbols

PLATE LOCATION AND ORIENTATION



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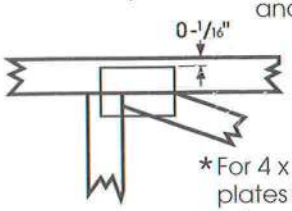

*For 4 x 2 orientation, locate plates 0 - 1/16" from outside edge of truss.

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

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

PLATE SIZE

4 x 4 — The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING

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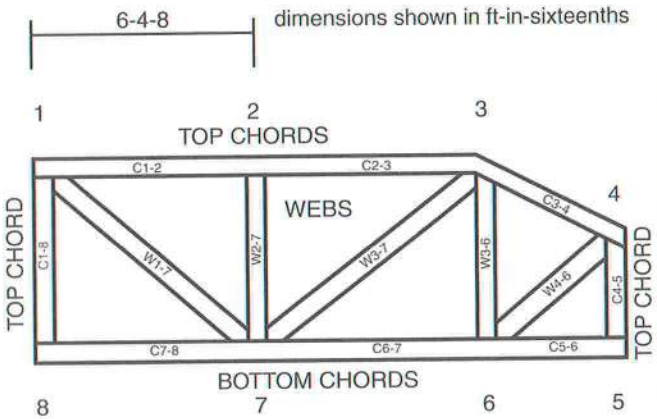
Numbering System



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BOCA	96-31, 95-43, 96-20-1, 96-67, 84-32
ICBO	4922, 5243, 5363, 3907
SBCCI	9667, 9730, 9604B, 9511, 9432A

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2. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
3. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
4. Cut members to bear tightly against each other.
5. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
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14. Connections not shown are the responsibility of others.
15. Do not cut or alter truss member or plate without prior approval of a professional engineer.
16. Install and load vertically unless indicated otherwise.

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