MiTe

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

RE: 4363597 - EARL PEELER

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314,434,1200

Site Information:

Customer Info: EARL PEELER Project Name: Peeler Res. Model: Custom Subdivision: N/A

Lot/Block: N/A

Address: TBD, TBD

City: Columbia Cty

State: FL

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

Name:

Address:

City:

State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2023/TPI2014

Wind Code: ASCE 7-22

Roof Load: 37.0 psf

Design Program: MiTek 20/20 8.8

Wind Speed: 130 mph Floor Load: N/A psf

License #:

This package includes 2 individual, 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.

Truss Name Date Seal# No. T35752683 T01 T01G T35752684



This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2025.

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

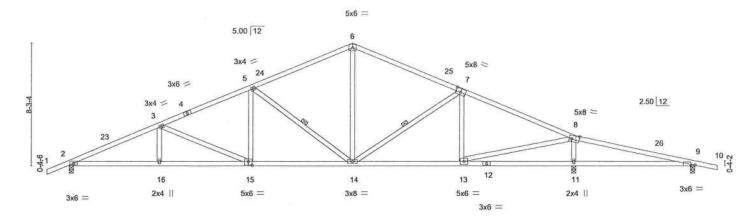


MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

December 7,2024

Job	Pruss	Truss Ty	/ре	Qty	Ply	EARL PEELER		
4363597	T01	Roof Sp	ecial	22	1			T35752683
	3357.5					Job Reference (optional)		
Builders FirstSource (Lake City,FL),	Lake City, FL - 32055,			8.830 s N	lov 8 2024 MiTek Industries,	Inc. Fri Dec 6 12:07:05 2	024 Page 1
		A1537 25		ID:FERUQ85bu4l	DsM9nwji2Y1	syC5zX-wW4Y5gv?kyXY9Et	NE0Y8ue7o_cYc50R0Gu?/	AEBdyBhcq
r1-6-0,	6-1-0	12-2-0	18-11-12	26-4-0		34-0-0	42-0-0	43-6-0
1-6-0	6-1-0	6-1-0	6-9-12	7-4-4		7-8-0	8-0-0	1-6-0

Scale = 1:74.5



	1	6-1-0	12-2-0	18-1	1-12	26-4-0)		33-10-4	34,0-0	42-0-0
		6-1-0	6-1-0	6-9	-12	7-4-4			7-6-4	0-1-12	8-0-0
Plate Offse	ets (X,Y)	[7:0-4-0,0-3-0], [8:0-6-0,0	-2-12], [9:0-3-	1,Edge], [15:0-	3-0,0-3-0]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.27 11-22	>359	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(CT)	0.23 11-22	>433	180	77/14/95/7/94/9	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.08 11	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matrix	-MS	100011000000000000000000000000000000000				Weight:	211 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING-

TOP CHORD **BOT CHORD** WEBS

Structural wood sheathing directly applied or 3-3-12 oc purlins.

Rigid ceiling directly applied or 5-8-7 oc bracing. 1 Row at midpt 5-14, 7-14

REACTIONS.

(size) 2=0-3-8, 11=0-3-8, 9=0-3-8

Max Horz 2=190(LC 16)

Max Uplift 2=-555(LC 12), 11=-628(LC 13), 9=-316(LC 9) Max Grav 2=1316(LC 1), 11=1647(LC 1), 9=333(LC 26)

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

TOP CHORD 2-3=-2660/1046, 3-5=-2128/898, 5-6=-1471/724, 6-7=-1481/721, 7-8=-1649/691 **BOT CHORD**

2-16=-1054/2405, 15-16=-1054/2405, 14-15=-749/1900, 13-14=-497/1456,

11-13=-270/153

WEBS 3-15=-544/330, 5-15=-92/419, 5-14=-779/476, 6-14=-275/728, 7-14=-320/285,

7-13=-264/212, 8-13=-593/1767, 8-11=-1430/638

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-8-6, Zone1 2-8-6 to 18-11-12, Zone2 18-11-12 to 24-11-0, Zone1 24-11-0 to 43-6-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=555, 11=628, 9=316.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

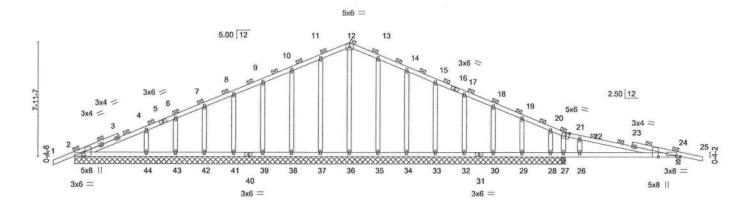
December 7,2024

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly and properly encourage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job "	fruss	Truss Type	Qty	Ply	EARL PEELER		
4363597	T01G	GABLE	2	1			T35752684
	100,000	100-00-00-00-00-00-00-00-00-00-00-00-00-			Job Reference (optional)		
Builders FirstSource	ce (Lake City,FL), Lake	City, FL - 32055,		8.830 s N	lov 8 2024 MiTek Industries, Ir	ic. Fri Dec 6 12:07:06 20	024 Page 1
			ID:FERUQ85bi	u4DsM9nw	vji2Y1syC5zX-OiewJ0wdVFfPn	OyQaFf7BKL9Py_YI7IQ6	Sfvnj3yBhcp
	1-6-0	18-11-12		34-0	0-0	42-0-0	43-6-0
'1	1-6-0	18-11-12		15-0	0-4	8-0-0	1-6-0

Scale = 1:77.0



					34-0-0	0					42-0	0
	34-0-0									8-0-		
Plate Offse	ets (X,Y)-	[2:0-3-8,Edge], [2:0-1-1,E	dge], [21:0-3-0	,0-1-10], [24	:0-0-9,Edge]	, [24:0-3-6,0-0-7]						
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.08	24-26	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.17	24-26	>561	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-S						Weight: 241 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-

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

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

REACTIONS. All bearings 34-0-0 except (jt=length) 24=0-3-8.

(lb) - Max Horz 2=183(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 38, 39, 41, 42, 43, 35, 34, 33, 32, 30 except 24=-206(LC 9), 44=-166(LC 12), 29=-117(LC 13), 28=-459(LC 26), 27=-418(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 39, 41, 42, 43, 35, 34, 33, 32, 30, 29, 28 except 24=329(LC 26), 44=328(LC 25), 27=874(LC 26), 27=873(LC 1)

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

TOP CHORD

10-11=-40/283, 11-12=-55/353, 12-13=-55/353, 13-14=-40/284

BOT CHORD 2-44=-102/273, 43-44=-102/273, 42-43=-102/273, 41-42=-102/273, 39-41=-102/273,

38-39=-102/273, 37-38=-102/273, 36-37=-102/273, 35-36=-102/273, 34-35=-102/273, 33-34=-102/273, 32-33=-102/273, 30-32=-102/273, 29-30=-102/273, 28-29=-102/273, 27-28=-102/273, 26-27=-83/263, 24-26=-83/263

4-44=-228/328, 22-26=-178/348, 21-27=-270/101

WEBS 4-44=-228/328, 2

NOTES-

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

- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 38, 39, 41, 42, 43, 35, 34, 33, 32, 30 except (jt=lb) 24=206, 44=166, 29=117, 28=459, 27=418.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 Mill'sk Inc. DBA Millek USA FL Cort 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

December 7,2024

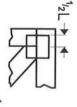
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss systems. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, crection and bracing of trusses systems, see ANSUTP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

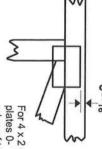


Symbols

PLATE LOCATION AND ORIENTATION



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



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

required direction of slots in This symbol indicates the

connector plates

*Plate location details available in MiTek software or upon request

PLATE SIZE

4 × 4

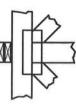
the length parallel to slots. The first dimension is the plate width measured perpendicular to slots. Second dimension is

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards:

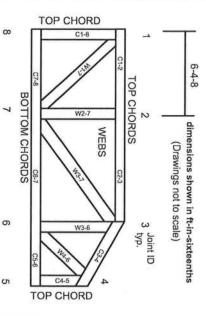
National Design Specification for Metal Building Component Safety Information, Design Standard for Bracing Plate Connected Wood Truss Construction

DSB-22:

Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal

Plate Connected Wood Trusses

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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$\hat{\mathbb{Q}}$

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves bracing should be considered. may require bracing, or alternative Tor I
- Never exceed the design loading shown and never stack materials on inadequately braced trusses

ω

- Provide copies of this truss design to the building designer, erection supervisor, properly owner and all other interested parties.
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. joint and embed fully. Knots and wane at joint

6

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7

- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions ndicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- The design does not take into account any dynamic or other loads other than those expressly stated.



18"(

2.5/12 PITCH -

5/12 -

34-00-00

DIOL

T01 (22)

D10T

45-00-00

34-00-00

EARL PEELER RES.

WODEL:
CUSTOM
ELEY:
GABLE
ADDRESS:
T'ND
LOT / BLOCK
SUBTOM
SUBTOM
SUBTOM
SUBTOM
OB 1-1
ASSET
ANTE: 128/2204
SCALE: N.T.S.
REVISIONS:

00-00-8

00-00-8

Builders FirstSource,

ALL FLAT CEILINGS

Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility Disclosure, as well as the referenced sources, prior to performing work on the associated project.

625-4414

Prepared By:

: Harry Monly

TOTAL HEATING AND COOLING REQUIREMENTS

Page 2

Name	Earl Peel	100				_	DF	SIGN				7		
Addr	Address:						EMPE	RATI	JRE		DESIGN / TEMP			
City:			DIFFERENCE / 30°/35°/40°/45°/50°/											
(4) Check Constr. Type			1.00	1000		-	/ 30	/	90°	/ 95°	/			
1. The	\$2 \$4			AREA			EATIN			HEATING		LING	COOLING	
/) (ITEM			SQUARE			LTIPL			(BTUH		JLT.	(BTUH	
28	<u> </u>			FEET		(CIR	CLE (ONE)		LOSS)	(CIR	CLE)	GAIN)	
1	Gross Wall Area			1440									-	
\vdash	Glass Area (From page 1)		-	144						7920			4310	
	Partitions, Frame												7,5	
	Finished 1 side, No Insulation Finished 2 sides, No Insulation				17	19	22	25	28		6.5	10.0		
	Finished 2 sides, R-5				9	- 11	12	14	16		4.5	.6.0		
	Finished 2 sides, R-11				2	5	5.5	6	7		2.5	3.5		
	Other					3	3	4	4	<u> </u>	2.0	2.5		
	Doors (Excluding glass)													
	No weatherstripping	-			135	160	180	200	225		10.0	100		
	Weatherstripped			26	. 70	85	95	110	120	3420	10.0	13.0	11/0	
	R-5 Insulation, No weatherstripp	ing	1	Building	123	144	164	185	205	2920	4.3	13.0	-468	
	R-5 Insulation, weatherstripping		1	100	68	79	90	101	113		4.0	5.0		
	Other		3/	Reviewed	To .						1.0	1 3.0		
	Net Exterior Walls	lic	37	101										
	CBS Furred, No Insulation	in	1	Le Cop	9	.10	12	13	14		4.5	6.0		
	CBS Furred, R-3 Insulation	1.0	C	le Co.	5	6	7	8	8		3.0	4.2		
	CBS Furred, R-4 Insulation	1º	2 1	Code	A	5	6	6	7		2.7	3.8		
	CBS Furred, R-5 Insulation	1.	0	Complianc	1	5	5	6	6		2.5	3.5		
	Frame, No Insulation		11	0	8	9	10	11	13		5.5	7.0		
-	Frame, R-11 Insulation		1	1908500	2	2	3	3	4	3780	2.5	3.0	3780	
-	Frame, R-14 Insulation				1.5	1.7	2	2.5	3		2	2.8		
-	Other			ļ										
-	Ceiling under attic No Insulation		of	 	40	-								
	R-11 Insulation	DK DK	LT	 	2.4	2.8	3.2	27	30			10 8.5		
	R-19 Insulation	DK		 	1.5	1.7	1.9	3.5	3.9		2.5 2			
	R-22 Insulation	DK	LT		1.2	1.5	1.7	1.9	2.1			5 2 1.5 01.5 1.5		
	R-26 Insulation	DK	LT		1.1	1.3	1.4	1.6	1.8			1.5 1.2		
	R-30 Insulation	DK	LT	1564	1	1.1	1.3	1.4	1.6	2033		1.3 1.0		
	Other			100	1	1	1	1	1.0	2032	1.11.0	1.3[1.0	2033	
	Floor, Concrete Slab			Perimeter Ft.		1	1							
	No Edge Insulation				35	40	40	45	45		0	0		
-	Other													
-	Subtotal Subtotal			E. S.						17153			10591	
	People @ 300 & Appl. @ 1200 Sensible BTUH Gain			<u> </u>	4								7200,	
-													17791	
-	Duct BTUH Loss & Gain 2 In. Flex. or 1 In. Rigid				-					1.07				
	1½ In. Rigid				-	+	.10			1116	-	.10	1290	
	Total BTUH Loss				.075					.075				
	Subtotal BTUH Gain				-					18369			10/601	
-	x 1.3 = Total BTUH Gain										-		1750//	
	The Assert Digital Guill				1					1	1		125 442	
Calo Size	culated Heating Requirements	96	9	BTU	JH C	alcula	ted Co	oling	Requi	rements 2	544	2	BTUH	
% C	versized			ВП	UH 3	Over	Jint (Hoser			,00		BTUH	
% L	Indersized				%	Unde	ersized							