

Truss Fabricator: Anderson Truss Company
Job Identification: 7-322--Wilber Brown McCloud Mother-In-Law -- Ft. White , **
Truss Count: 4
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.36.
Structural Engineer of Record: The identity of the structural EOR did not exist as of
Address: the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration
Floor - N/A
Wind - 110 MPH ASCE 7-02 -Closed

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR8228

Details: A11015EE-GBLLETIN-

#	Ref	Description	Drawing#	Date
1	71421--A		07305022	11/01/07
2	71422--AV		07305023	11/01/07
3	71423--AGE		07305024	11/01/07
4	71424--AVGE		07305025	11/01/07

Seal Date: 11/01/2007

-Truss Design Engineer-

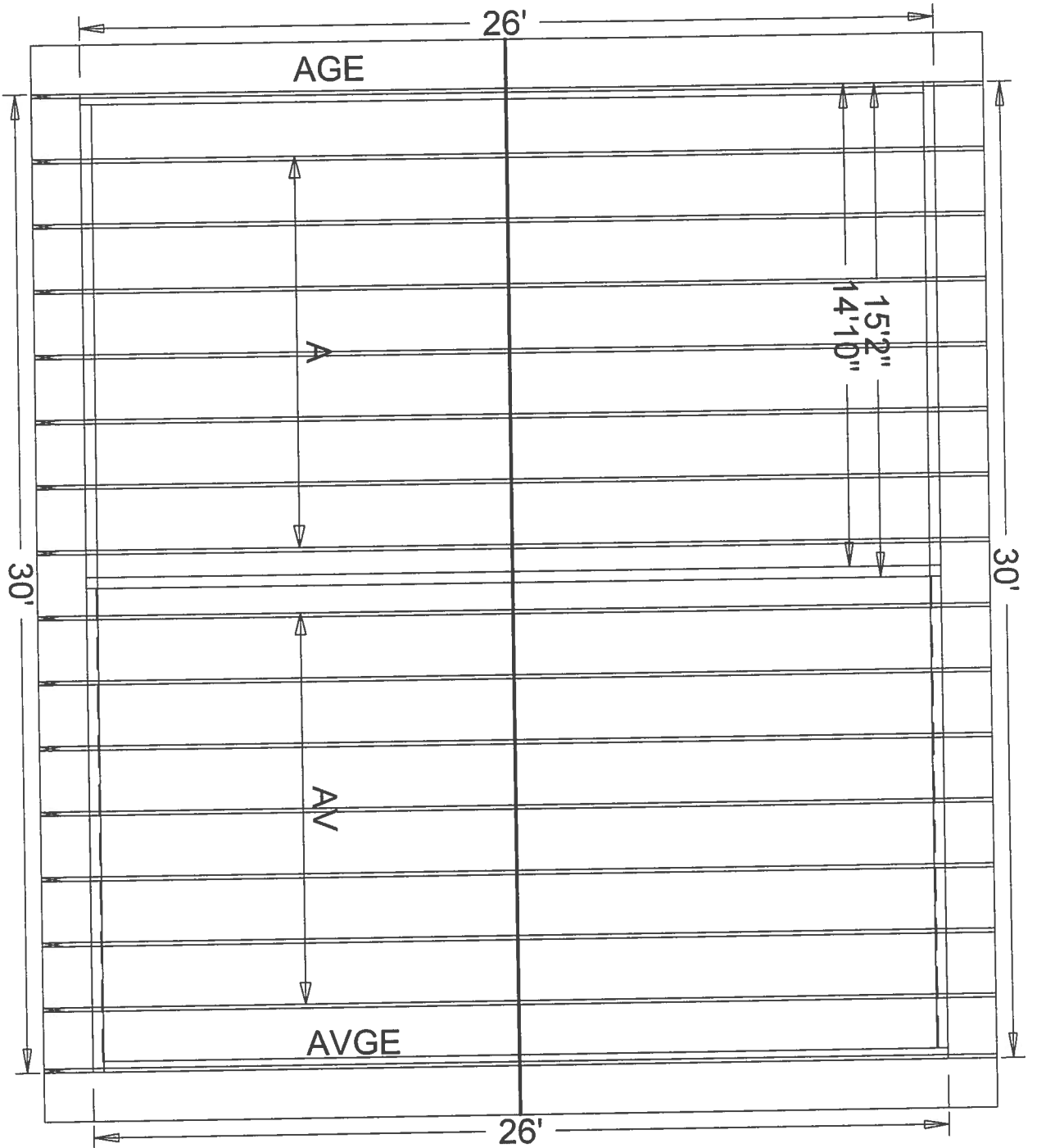
James F. Collins Jr.

Florida License Number: 52212

1950 Marley Drive

Haines City, FL 33844





#7-322 Wilber Brown -
McCloud's Mother-In-Law

Roof Plane Sheathing Area = 1037 sq. ft
 Gable Sheathing Area = 158 sq. ft
 Total Sheathing Area = 1195 sq. ft
 Fascia Material = 129 linear ft
 Ridge Cap Material = 33 linear ft

JOB DESCRIPTION:: Wilber Brown
 /: McCloud Mother-In-Law

JOB NO:

7-322

PAGE NO:

1 OF 1

[illegible]


110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

Wind reactions based on MWFRS pressures.



Scale = .25"/Ft.

JAMES F. COLLINGS
LICENSE
LIB



ALPINE

A circular professional engineer seal for James E. Collins, No. 6262, State of Florida. The seal features the text "JAMES E. COLLINS", "No. 6262", and "STATE OF FLORIDA" around the perimeter, with "PROFESSIONAL ENGINEER" at the bottom. The seal is stamped over the bottom portion of the document.

TC LL	20.0 PSF	REF	R8228- 71421
TC DL	10.0 PSF	DATE	11/01/07
BC DL	10.0 PSF	DRW	HCSR8228 07305022
BC LL	0.0 PSF	HC-ENG JB/AP	*
TOT.LD.	40.0 PSF	SEQN-	47762
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TC38228Z02

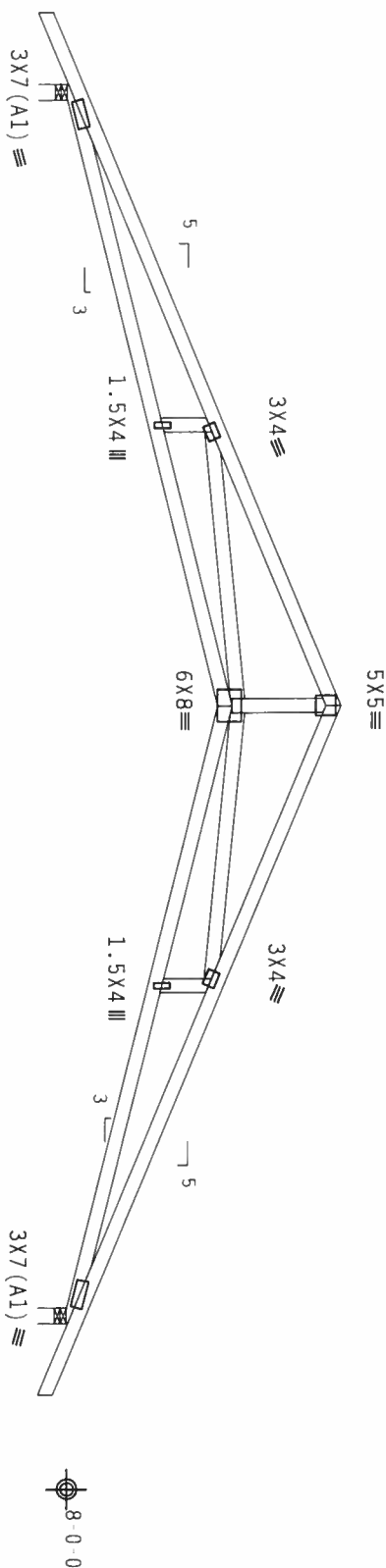
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Calculated horizontal deflection is 0.29" due to live load and 0.44" due to dead load.
Calculated vertical deflection is 0.43" due to live load and 0.66" due to dead load at $x = 13.0 - 0$.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $iw=1.00$ GCPI (+/-)=0.18

Wind reactions based on MMFRS pressures.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



13'-0"

13'-0"

R=1169 U=116 W=4"

R=1169 U=116 W=4"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.36.0424

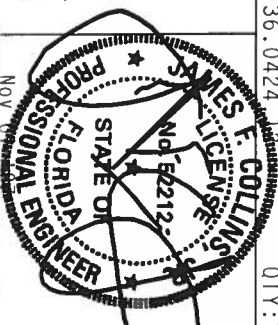
QTY:1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

WARNING TRUSSES SHOWN EXCEPT FOR FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING, REFER TO BEST PRACTICES FOR BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22304 AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Professional Engineer



TC LL	20.0 PSF	REF	R8228-71422
TC DL	10.0 PSF	DATE	11/01/07
BC DL	10.0 PSF	DRW	HCUSR8228 07305023
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN	47766
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1TC38728202

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

Wind reactions based on MFRS pressures.

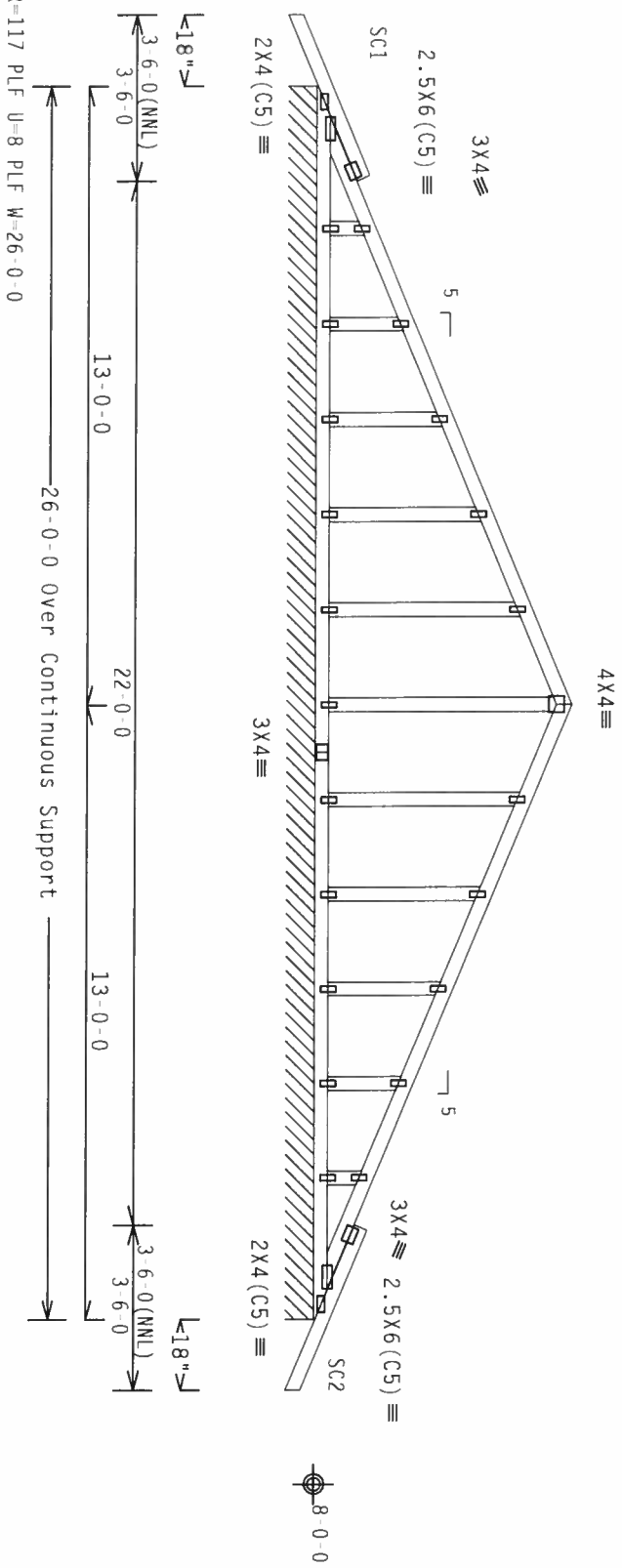
See DWGS A11015EE0207 & GBLETTIN0207 for more requirements.

Stacked top chord must NOT be notched or cut in area (N_{NL}).

top chord (SC) to dropped top chord in notchable area using

interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.

The building designer is responsible for the design of the roof and ceiling diaphragms, gable end shear walls, and supporting shear walls. Shear walls must provide continuous lateral restraint to the gable end. All connections to be designed by the building designer.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0)$$

QTY:1 FL/-/4/-/-/R/-

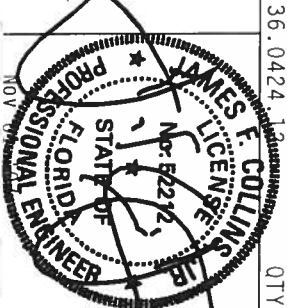
Scale = .25"/Ft.

WARNING—FIRE, RESCUE, EXTING. CASE IN INVESTIGATION, HANDLED, SHIPPED, INSTALLING, AND BRACING ATTEMPTING TO BEAT (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY THE (FIRE) PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 317, ALEXANDRIA, VA, 22314 AND (GOOD TRUSS COMPANY) OF AMERICA, 6300 INTERNATIONAL AVE., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR GOOD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844



TC LL	20.0 PSF	REF	R8228- 71423
TC DL	10.0 PSF	DATE	11/01/07
BC DL	10.0 PSF	DRW	HCUSR8228 07305024
BC LL	0.0 PSF	HC-ENG	JB/AP
TOT.LD.	40.0 PSF	SEQN-	47771
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1TC38228202

(7-322-Willber Brown McCloud Mother-in-law - Ft. White, ** - AVGE)

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

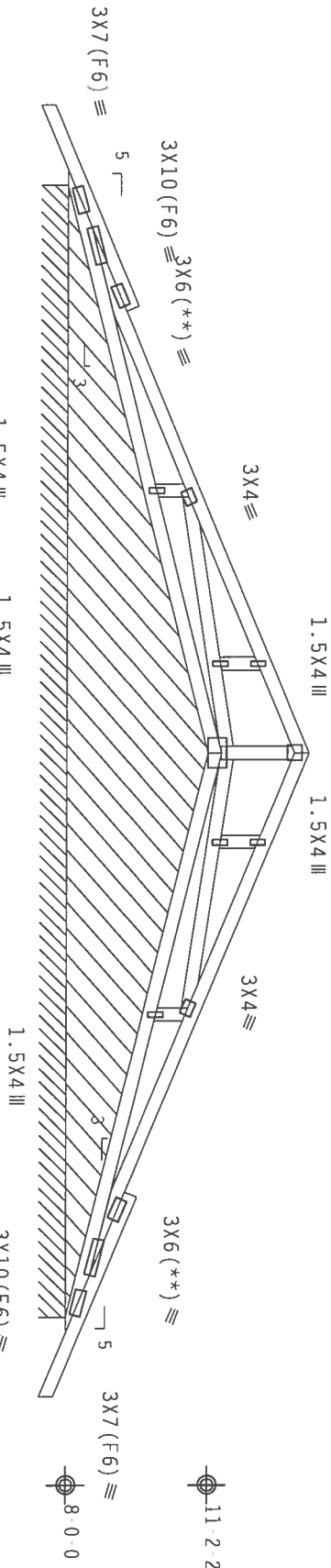
:Lt Slider 2x4 SP #2 Dense: BLOCK LENGTH = 12.738'
:Rt Slider 2x4 SP #2 Dense: BLOCK LENGTH = 12.739'

Truss spaced at 24.0" OC designed to support 1-6-0 top chord
outlookers. Cladding load shall not exceed 10.00 PSF. Top chord
must not be cut or notched.

Stacked top chord must NOT be notched or cut in area (NML).
Dropped top chord braced at 24" o.c. intervals. Attach stacked
top chord (SC) to dropped top chord in notchable area using 3x4
tie plates 24" o.c. Center plate on stacked/dropped chord
interface, plate length perpendicular to chord length. Splice top
chord in notchable area using 3x6.

The building designer is responsible for the design of the
roof and ceiling diaphragms, gable end shear walls, and
supporting shear walls. Shear walls must provide continuous
lateral restraint to the gable end. All connections to be
designed by the building designer.

4X4≡



3"8
18"8

3"8
18"8

R=131 PLF U=6 PLF W=25-5-0

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424

OTY:1

FL/-/4/-/R/-

Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTERNAL CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RESIST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICK (WOOD TRUSS CONNECT) OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TFW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY AFRAPA AND TPI.

PRODUCTION PLATES ARE MADE OF 2018/16GA (40/55/75) ASTM A653 GRADE 40/40 (4. KTH, 55 GALV. STEEL). APPLY PROTECTIVE COATING TO ALL EXPOSED SURFACES. THIS DESIGN IS LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY DESIGNER SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPANY. THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

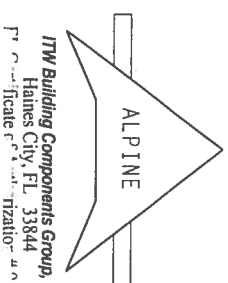
(**) 2 plate(s) require special positioning. Refer to scaled plate plot details for special positioning requirements.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

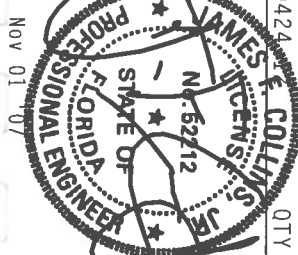
Wind reactions based on MWFRS pressures.

See DWGS A11015EE0207 & GBLETTIN0207 for more requirements.

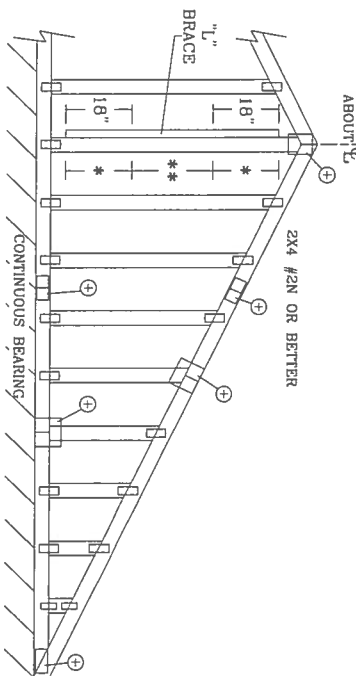
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



ITW Building Components Group, Inc.
Haines City, FL 33844
Fabricator



TC LL	20.0 PSF	REF	R8228-71424
TE DL	10.0 PSF	DATE	11/01/07
BC DL	10.0 PSF	DRW	HCUSR8228 07305025
BC LL	0.0 PSF	HC ENG	JB/AP
TOT. LD.	40.0 PSF	SEON	58617
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1TC38228202



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPICE
LESS THAN 4' 0"	1x4 OR 2x3
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2x4
GREATER THAN 11' 6"	2.5x4

+ REFER TO COMMON TRUSS DESIGN FOR
PEAK, SPICE, AND HEEL PLATES.

ATTACH EACH "L" BRACE WITH 10d NAILS.
 * FOR (1) "L" BRACE: SPACE NAILS AT 2' O.C.
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES
 ** FOR (2) "L" BRACES: SPACE NAILS AT 3' O.C.
 IN 18" END ZONES AND 6" O.C. BETWEEN ZONES
 "L" BRACING MUST BE A MINIMUM OF 90% OF WEB
 MEMBER LENGTH.

GABLE END SUPPORTS LOAD FROM 4' 0" OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER
CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

CABLE TRUSS DETAIL NOTES:

BRACING GROUP SPECIES AND GRADES:									
<p align="center">GROUP A:</p>									
<p>SPRUCE-PINE-FIR</p> <table border="1"> <tr> <td>#1</td> <td>STANDARD</td> </tr> <tr> <td>#2</td> <td>STUD</td> </tr> </table>	#1	STANDARD	#2	STUD	<p>HEM-FIR</p> <table border="1"> <tr> <td>#2</td> <td>STUD</td> </tr> <tr> <td>#3</td> <td>STANDARD</td> </tr> </table>	#2	STUD	#3	STANDARD
#1	STANDARD								
#2	STUD								
#2	STUD								
#3	STANDARD								
<p>DOUGLAS FIR-LARCH</p> <table border="1"> <tr> <td>#3</td> <td>STUD</td> </tr> <tr> <td>STANDARD</td> <td></td> </tr> </table>	#3	STUD	STANDARD		<p>SOUTHERN PINE</p> <table border="1"> <tr> <td>#3</td> <td>STUD</td> </tr> <tr> <td>STANDARD</td> <td></td> </tr> </table>	#3	STUD	STANDARD	
#3	STUD								
STANDARD									
#3	STUD								
STANDARD									
<p align="center">GROUP B:</p>									
<p>HEM-FIR</p> <table border="1"> <tr> <td>#1 & BTR</td> <td></td> </tr> <tr> <td>#1</td> <td></td> </tr> </table>	#1 & BTR		#1		<p>SOUTHERN PINE</p> <table border="1"> <tr> <td>#1</td> <td></td> </tr> <tr> <td>#2</td> <td></td> </tr> </table>	#1		#2	
#1 & BTR									
#1									
#1									
#2									



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

==WARNING== THESE REQUIRE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS PLATE MANUFACTURER. THE STR. CODE SET, ALEXANDRIA, VA 22304, AND VITA Q-6000 TRUSS CODE OF AMERICA, 600 ENTERPRISE DRIVE, CHANDLER, AZ 85226, HAVE ALL THE RULES FOR THE TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, THE TOP CHORD SHALL HAVE PLYWOOD ATTACHED TO PERFORM THESE PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

==IMPORTANT== FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING, BRACING, BY ATRAP AND THE LISTED CONDITIONS WITH APPLICABLE PROVISIONS OF NDS NATIONAL DESIGN SPEC. BY ATRAP AND THE LISTED CONDITIONS OF THE TRUSS MANUFACTURER. THE TRUSS SHALL BE DESIGNED TO WITHSTAND THE DESIGN, POSITION APPLY PLATES TO EACH FACE OF THE TRUSS AND SHALL MEET A MINIMUM GRADE 40/60 (A163/A165) DESIGN, STEEL PLY PLATES 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY IT SHALL BE THE DESIGNER'S RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN APPROVAL. THE PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE BUILDING DESIGN. THE RESPONSIBILITY OF THE BUILDING DESIGNER PER USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER AISC/ITP 1 SEC. 2.

07 No. 52212
JAMES F. COLLINS JR
LICENSE

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

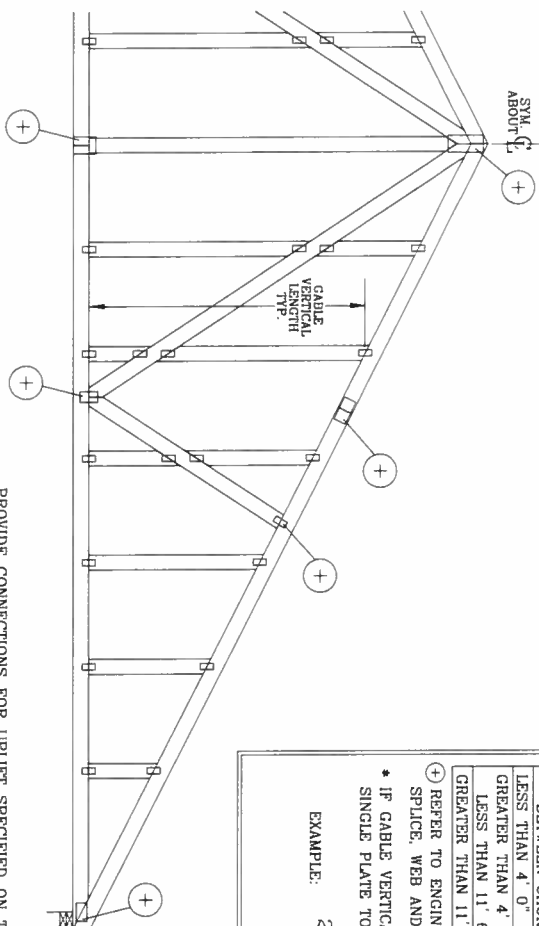
REF ASCE7-02-GAB1015

DATE 2/23/07

DRWG A11015EE0207

-ENG

GABLE DETAIL FOR LET-IN VERTICALS

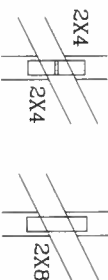


GABLE VERTICAL PLATE SIZES			
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*	
LESS THAN 4' 0"	1X4 OR 2X3	2X6	
GREATER THAN 4' 0", BUT LESS THAN 11' 6"	2X4	2X6	
GREATER THAN 11' 6"	2.5X4	2.5X6	

* REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.
ATTACH EACH "T" REINFORCING MEMBER WITH
HAND DRIVEN NAILS:
10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS
(4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

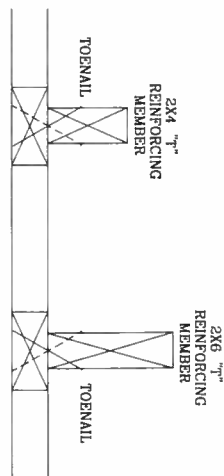
GUN DRIVEN NAILS:
8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
(4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

- ASCE 7-93 GABLE DETAIL DRAWINGS
A11015E0207, A10015E0207, A09015E0207, A07015E0207,
A11030E0207, A10030E0207, A09030E0207, A08030E0207, A07030E0207
ASCE 7-98 GABLE DETAIL DRAWINGS
A13015E0207, A12015E0207, A11015E0207, A08015E0207,
A13030E0207, A12030E0207, A11030E0207, A08030E0207
ASCE 7-02 GABLE DETAIL DRAWINGS
A13015E0207, A12015E0207, A11015E0207, A08015E0207,
A13030E0207, A12030E0207, A11030E0207, A08030E0207
ASCE 7-05 GABLE DETAIL DRAWINGS
A13015E0207, A12015E0207, A11015E0207, A08015E0207,
A13030E0207, A12030E0207, A11030E0207, A08030E0207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE VERTICAL LENGTH.

THIS DRAWING REPLACES DRAWINGS GAB98117 876.719 & HC26294035



TO CONVERT FROM "T" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "T" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
80 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

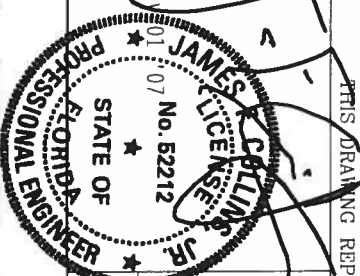
ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24" O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10
(1) 2X4 "T" BRACE LENGTH = 6' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 x 6' 7" = 7' 3"



ITW BUILDING COMPONENTS GROUP, INC.
POWANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING, AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STR., SUITE 312, ALEXANDRIA, VA 22314 AND WITA CWOOD TRUSS COUNCIL IN AMERICA, 6300 ENTERPRISE LN, HANSDEN, VI 5719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, DESIGN CHANGES WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY ACPA) AND THE ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (V/H/SS) ASH A653 GRADE 40/60 (V/H/SS) OR 20/18/16GA (V/H/SS) STEEL. APPLICABLE PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS PER DESIGN, SHALL BE USED IN CONFORMANCE WITH THE TPI 1-2002 SEC. 3. THIS DRAWING INDICATES ACCEPTANCE OF THE ENGINEERING RESPONSIBILITY SAFETY FOR THE TRUSS COMPONENT DESIGN SHOWING THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



MAX TOT. LD. 60 PSF	REF LET-IN VERT
DUR. FAC. ANY	DATE 2/23/07
MAX SPACING 24.0"	DRWG GBLLETTN0207
	-ENG DLJ/KAR

Residential System Sizing Calculation

Summary

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

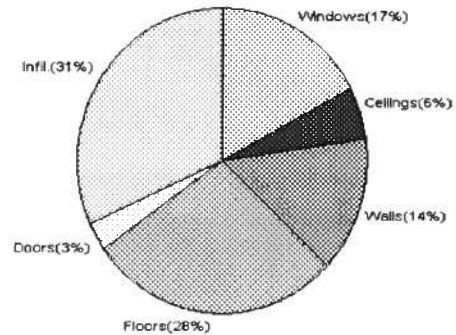
11/16/2007

Location for weather data: Gainesville - Defaults: Latitude(29) Altitude(152 ft.) Temp Range(M)			
Humidity data: Interior RH (50%) Outdoor wet bulb (77F) Humidity difference(54gr.)			
Winter design temperature	33 F	Summer design temperature	92 F
Winter setpoint	70 F	Summer setpoint	75 F
Winter temperature difference	37 F	Summer temperature difference	17 F
Total heating load calculation	17311 Btuh	Total cooling load calculation	12213 Btuh
Submitted heating capacity	% of calc Btuh	Submitted cooling capacity	% of calc Btuh
Total (Electric Heat Pump)	115.5 20000	Sensible (SHR = 0.75)	161.9 15000
Heat Pump + Auxiliary(0.0kW)	115.5 20000	Latent	169.7 5000
		Total (Electric Heat Pump)	163.8 20000

WINTER CALCULATIONS

Winter Heating Load (for 780 sqft)

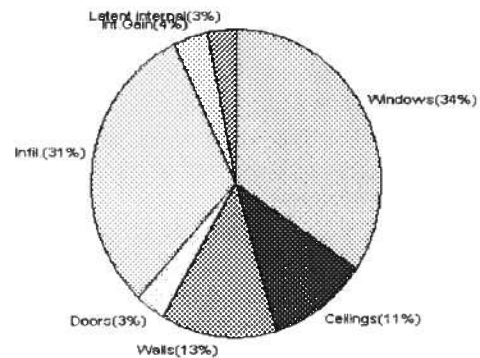
Load component	Load
Window total 94 sqft	3010 Btuh
Wall total 763 sqft	2504 Btuh
Door total 40 sqft	518 Btuh
Ceiling total 810 sqft	954 Btuh
Floor total 112 sqft	4890 Btuh
Infiltration 134 cfm	5434 Btuh
Duct loss	0 Btuh
Subtotal	17311 Btuh
Ventilation 0 cfm	0 Btuh
TOTAL HEAT LOSS	17311 Btuh



SUMMER CALCULATIONS

Summer Cooling Load (for 780 sqft)

Load component	Load
Window total 94 sqft	4186 Btuh
Wall total 763 sqft	1590 Btuh
Door total 40 sqft	392 Btuh
Ceiling total 810 sqft	1341 Btuh
Floor total	0 Btuh
Infiltration 70 cfm	1297 Btuh
Internal gain	460 Btuh
Duct gain	0 Btuh
Sens. Ventilation 0 cfm	0 Btuh
Total sensible gain	9267 Btuh
Latent gain(ducts)	0 Btuh
Latent gain(infiltration)	2546 Btuh
Latent gain(ventilation)	0 Btuh
Latent gain(internal/occupants/other)	400 Btuh
Total latent gain	2946 Btuh
TOTAL HEAT GAIN	12213 Btuh



For Florida residences only

EnergyGauge® System Sizing

PREPARED BY: *[Signature]*

DATE: 11-16-07

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/16/2007

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	13.5		32.2	435 Btuh
6	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
7	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
Window Total			94(sqft)			3010 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	763		3.3	2504 Btuh
Wall Total			763			2504 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
Door Total			40			518 Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	810		1.2	954 Btuh
Ceiling Total			810			954 Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	112.0 ft(p)		43.7	4890 Btuh
Floor Total			112			4890 Btuh
Zone Envelope Subtotal:						11876 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	1.29	6240	134.2		5434 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					17311 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	17311 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17311 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

11/12/2007



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)

For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/16/2007

Component Loads for Zone #1: Main

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft)	X	HTM=	Load
1	2, Clear, Metal, 0.87	NW	15.0		32.2	483 Btuh
2	2, Clear, Metal, 0.87	NW	20.0		32.2	644 Btuh
3	2, Clear, Metal, 0.87	NE	15.0		32.2	483 Btuh
4	2, Clear, Metal, 0.87	SE	9.0		32.2	290 Btuh
5	2, Clear, Metal, 0.87	SE	13.5		32.2	435 Btuh
6	2, Clear, Metal, 0.87	SW	6.0		32.2	193 Btuh
7	2, Clear, Metal, 0.87	SW	15.0		32.2	483 Btuh
	Window Total		94(sqft)			3010 Btuh
Walls	Type	R-Value	Area	X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	763		3.3	2504 Btuh
	Wall Total		763			2504 Btuh
Doors	Type		Area	X	HTM=	Load
1	Insulated - Exterior		20		12.9	259 Btuh
2	Insulated - Exterior		20		12.9	259 Btuh
	Door Total		40			518Btuh
Ceilings	Type/Color/Surface	R-Value	Area	X	HTM=	Load
1	Vented Attic/D/Shin)	30.0	810		1.2	954 Btuh
	Ceiling Total		810			954Btuh
Floors	Type	R-Value	Size	X	HTM=	Load
1	Slab On Grade	0	112.0 ft(p)		43.7	4890 Btuh
	Floor Total		112			4890 Btuh
	Zone Envelope Subtotal:					11876 Btuh
Infiltration	Type	ACH X	Zone Volume	CFM=		
	Natural	1.29	6240	134.2		5434 Btuh
Ductload	Average sealed, R6.0, Supply(Attic), Return(Attic) (DLM of 0.00)					0 Btuh
Zone #1	Sensible Zone Subtotal					17311 Btuh

WHOLE HOUSE TOTALS

	Subtotal Sensible	17311 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	17311 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

11/12/2007



Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear
(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)

For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/16/2007

Component Loads for Whole House

Window	Type*		Overhang		Window Area(sqft)			HTM		Load		
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded			
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh	
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh	
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	29	60	901	Btuh	
4	2, Clear, 0.87, None,N,N	SE	8ft.	3.5ft.	9.0	9.0	0.0	29	63	261	Btuh	
5	2, Clear, 0.87, B-D, N,N	SE	8ft.	7.33	13.5	13.5	0.0	23	54	315	Btuh	
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	6.0	6.0	0.0	29	63	174	Btuh	
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434	Btuh	
Window Total						94 (sqft)					4186 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load		
1	Frame - Wood - Ext	13.0/0.09			762.5			2.1		1590 Btuh		
Wall Total						763 (sqft)					1590 Btuh	
Doors	Type				Area (sqft)			HTM		Load		
1	Insulated - Exterior				20.0			9.8		196 Btuh		
2	Insulated - Exterior				20.0			9.8		196 Btuh		
Door Total						40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load		
1	Vented Attic/DarkShingle	30.0			810.0			1.7		1341 Btuh		
Ceiling Total						810 (sqft)					1341 Btuh	
Floors	Type	R-Value			Size			HTM		Load		
1	Slab On Grade	0.0			112 (ft(p))			0.0		0 Btuh		
Floor Total						112.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:										7510 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load		
	SensibleNatural	0.67			6240			69.7		1297 Btuh		
Internal gain	Occupants			Btuh/occupant			Appliance		Load			
	2			X 230 +			0		460 Btuh			
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)										DGM = 0.00	
	Sensible Zone Load										9267 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

11/16/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9267 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9267 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9267 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2546 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2946 Btuh
	TOTAL GAIN	12213 Btuh

*Key: Window types (Pn - Number of panes of glass)
(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(B), Draperies(D) or Roller Shades(R))
(ExSh - Exterior shading device: none(N) or numerical value)
(BS - Insect screen: none(N), Full(F) or Half(H))
(Ornt - compass orientation)



For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F
This calculation is for Worst Case. The house has been rotated 315 degrees.

11/16/2007

Component Loads for Zone #1: Main

Window	Type*		Overhang		Window Area(sqft)			HTM		Load	
	Pn/SHGC/U/InSh/ExSh/IS	Ornt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	15.0	0.0	15.0	29	60	901	Btuh
2	2, Clear, 0.87, None,N,N	NW	1.5ft.	5.5ft.	20.0	0.0	20.0	29	60	1201	Btuh
3	2, Clear, 0.87, None,N,N	NE	1.5ft.	0ft.	15.0	0.0	15.0	29	60	901	Btuh
4	2, Clear, 0.87, None,N,N	SE	8ft.	3.5ft.	9.0	9.0	0.0	29	63	261	Btuh
5	2, Clear, 0.87, B-D, N,N	SE	8ft.	7.33	13.5	13.5	0.0	23	54	315	Btuh
6	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	6.0	6.0	0.0	29	63	174	Btuh
7	2, Clear, 0.87, None,N,N	SW	1.5ft.	0ft.	15.0	15.0	0.0	29	63	434	Btuh
Window Total					94 (sqft)					4186 Btuh	
Walls	Type	R-Value/U-Value			Area(sqft)			HTM		Load	
1	Frame - Wood - Ext	13.0/0.09			762.5			2.1		1590 Btuh	
Wall Total					763 (sqft)					1590 Btuh	
Doors	Type				Area (sqft)			HTM		Load	
1	Insulated - Exterior				20.0			9.8		196 Btuh	
2	Insulated - Exterior				20.0			9.8		196 Btuh	
Door Total					40 (sqft)					392 Btuh	
Ceilings	Type/Color/Surface	R-Value			Area(sqft)			HTM		Load	
1	Vented Attic/DarkShingle	30.0			810.0			1.7		1341 Btuh	
Ceiling Total					810 (sqft)					1341 Btuh	
Floors	Type	R-Value			Size			HTM		Load	
1	Slab On Grade	0.0			112 (ft(p))			0.0		0 Btuh	
Floor Total					112.0 (sqft)					0 Btuh	
	Zone Envelope Subtotal:									7510 Btuh	
Infiltration	Type	ACH			Volume(cuft)			CFM=		Load	
	SensibleNatural	0.67			6240			69.7		1297 Btuh	
Internal gain	Occupants			Btuh/occupant			Appliance		Load		
	2			X 230 +			0		460 Btuh		
Duct load	Average sealed, R6.0, Supply(Attic), Return(Attic)							DGM = 0.00		0.0 Btuh	
	Sensible Zone Load									9267 Btuh	

Manual J Summer Calculations

Residential Load - Component Details (continued)

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

Class 3 Rating
Registration No. 0
Climate: North

11/16/2007

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	Sensible Envelope Load All Zones	9267 Btuh
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	9267 Btuh
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	9267 Btuh
	Latent infiltration gain (for 54 gr. humidity difference)	2546 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (2 people @ 200 Btuh per person)	400 Btuh
	Latent other gain	0 Btuh
	Latent total gain	2946 Btuh
	TOTAL GAIN	12213 Btuh

*Key: Window types (Pn - Number of panes of glass)

(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(B), Draperies(D) or Roller Shades(R))

(ExSh - Exterior shading device: none(N) or numerical value)

(BS - Insect screen: none(N), Full(F) or Half(H))

(Ornt - compass orientation)



For Florida residences only

Residential Window Diversity

MidSummer

McCloud Mother-in-law's Suite
SW Cumorah Hill St.
Ft. White, FL

Project Title:
710247BrownWillber

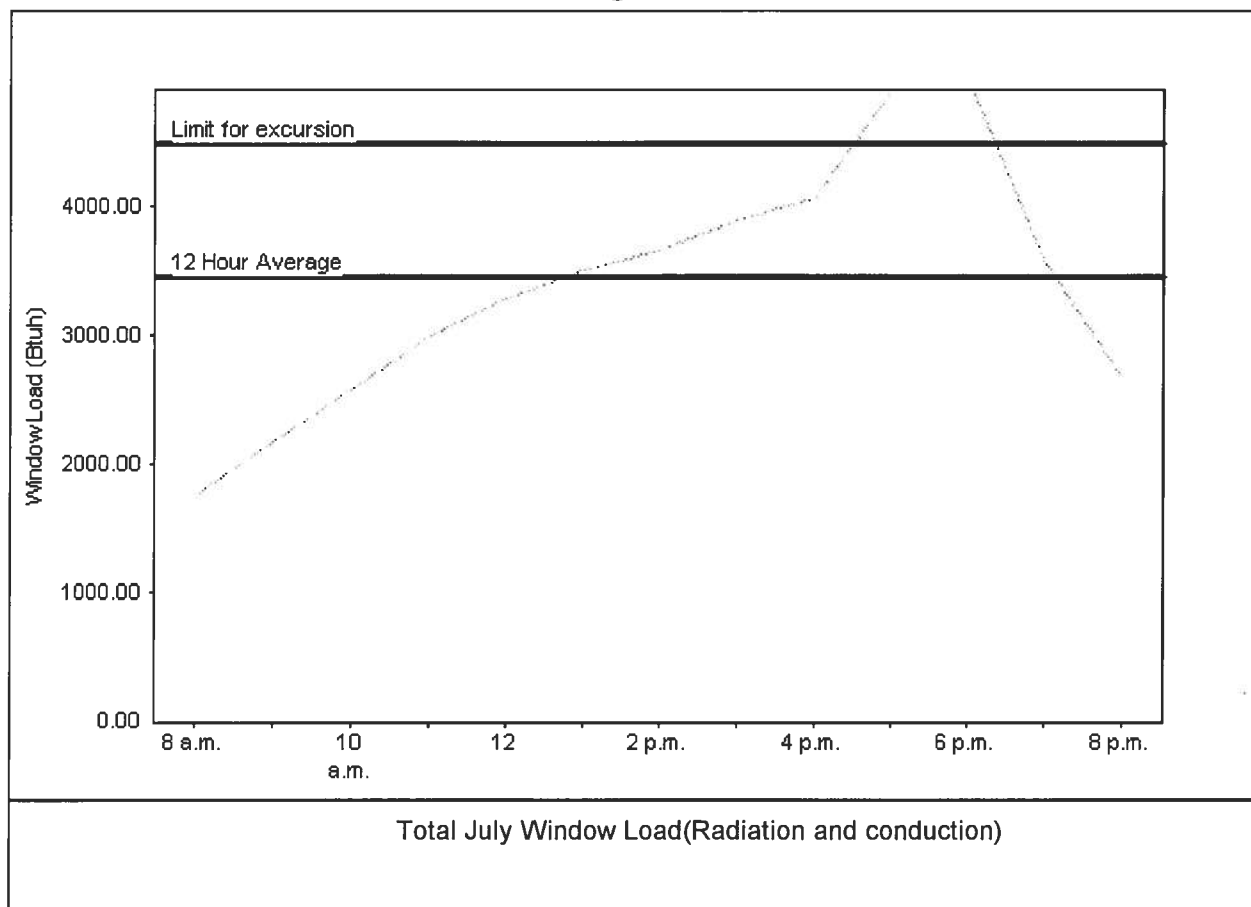
Class 3 Rating
Registration No. 0
Climate: North

11/16/2007

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	3453 Btuh
Summer setpoint	75 F	Peak window load for July	4993 Btuh
Summer temperature difference	17 F	Excursion limit(130% of Ave.)	4488 Btuh
Latitude	29 North	Window excursion (July)	505 Btuh

WINDOW Average and Peak Loads



Warning: This application has glass areas that produce relatively large heat gains for part of the day. Variable air volume devices may be required to overcome spikes in solar gain for one or more rooms. A zoned system may be required or some rooms may require zone control.

EnergyGauge® System Sizing for Florida residences only

PREPARED BY: *Brian Jacobs*

DATE: *11-16-07*

EnergyGauge® FLR2PB v4.1



PRODUCT APPROVAL SPECIFICATION SHEET

Location: _____

Project Name: _____


As required by Florida Statute 553.842 and Florida Administrative Code 9B-72, please provide the information and the product approval number(s) on the building components listed below if they will be utilized on the construction project for which you are applying for a building permit on or after April 1, 2004. We recommend you contact your local product supplier should you not know the product approval number for any of the applicable listed products. More information about statewide product approval can be obtained at www.floridabuilding.org

Category/Subcategory	Manufacturer	Product Description	Approval Number(s)
A. EXTERIOR DOORS			
1. Swinging	THERAMTROL	6'8" STEEL/WOOD upto 6 FT OPEN INCLUDES SIDELITES	CI-0828,08
2. Sliding			
3. Sectional			
4. Roll up			
5. Automatic			
6. Other			
B. WINDOWS			
1. Single hung	CAPITAL + BETTER BUILT. MI Products	SINGLE HUNG 740, 165, 3240, 4250, Series	AAMA CERT BB- 101/15.2.-97 CTLA-744W-B
2. Horizontal Slider			
3. Casement			
4. Double Hung			
5. Fixed		740 165 3240 4250 Series	CI-35673.05
6. Awning			
7. Pass-through			
8. Projected			
9. Mullion	MI Products	740, 165, 3240, 4250 Series	CI-35673.05
10. Wind Breaker			
11. Dual Action			
12. Other			
C. PANEL WALL			
1. Siding (sheer wall)	NORBOARD	8'-9'x10' OSB WALL Sheeting WIND STORM	NER 108
2. Soffits			
3. EIFS			
4. Storefronts			
5. Curtain walls			
6. Wall louver			
7. Glass block			
8. Membrane	BARRICADE	BUILDING WRAP FED SPEC.	UB B790A
9. Greenhouse			
10. Other			
D. ROOFING PRODUCTS			
1. Asphalt Shingles			
2. Underlayments	WOODLAND	15#, 30# FELT	ASTM D-4869
3. Roofing Fasteners			
4. Non-structural Metal Rf			
5. Built-Up Roofing			
6. Modified Bitumen			
7. Single Ply Roofing Sys			
8. Roofing Tiles			
9. Roofing Insulation			
10. Waterproofing			
11. Wood shingles /shakes			
12. Roofing Slate			

Category/Subcategory (cont.)	Manufacturer	Product Description	Approval Number(s)
13. Liquid Applied Roof Sys			
14. Cements-Adhesives - Coatings			
15. Roof Tile Adhesive			
16. Spray Applied Polyurethane Roof			
17. Other			
E. SHUTTERS			
1. Accordion			
2. Bahama			
3. Storm Panels			
4. Colonial			
5. Roll-up			
6. Equipment			
7. Others			
F. SKYLIGHTS			
1. Skylight			
2. Other			
G. STRUCTURAL COMPONENTS			
1. Wood connector/anchor	SIMPSON STRONG TIE	H-16, SP4, H2.5A, H-10, LSTA, FL 2822	
2. Truss plates			
3. Engineered lumber	ANTHONY	3 1/2" - 5 1/2" to 24' GLU-LAM	ASTM 7182.80
4. Railing			
5. Coolers-freezers			
6. Concrete Admixtures			
7. Material			
8. Insulation Forms			
9. Plastics			
10. Deck-Roof	NORBOARD	7/16" - 1/2" OSB	NER 108
11. Wall		7/16" x 8' - 9' - 10' Steamboard	NER 108
12. Sheds			
13. Other			
H. NEW EXTERIOR ENVELOPE PRODUCTS			
1.			
2.			

The products listed below did not demonstrate product approval at plan review. I understand that at the time of inspection of these products, the following information must be available to the inspector on the jobsite; 1) copy of the product approval, 2) the performance characteristics which the product was tested and certified to comply with, 3) copy of the applicable manufacturers installation requirements.

I understand these products may have to be removed if approval cannot be demonstrated during inspection.


 Contractor or Contractor's Authorized Agent Signature
 S.W. Lomax Hill ST.
 Location

Wilber Brown
 Print Name
 11/16/07
 Date

Permit # (FOR STAFF USE ONLY)