DATE 02/12/2008

Columbia County Building Permit

This Permit Must Be Prominently Posted on Premises During Construction

PERMIT
000026742

APPLICANT MELANIE RODER PHONE 386.623.7829

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER JAMES COOK PHONE 386.623.4623

ADDRESS 141 SW EMORYWOOD GLN LAKE CITY FL 32024

CONTRACTOR AARON SIMQUE PHONE 386.867.0692

LOCATION OF PROPERTY 47-S TO WALTER AVENUE,TL TO EMORYWOOD GLN,TL AND IT'S THE 2ND LOT ON L.

TYPE DEVELOPMENT SFD/UTILITY ESTIMATED COST OF CONSTRUCTION 140500.00

HEATED FLOOR AREA 2342.00 TOTAL AREA 2810.00 HEIGHT 28.80 STORIES 1

FOUNDATION CONC WALLS FRAMED ROOF PITCH 12'12 FLOOR CONC

LAND USE & ZONING A-3 MAX. HEIGHT 35

Minimum Set Back Requirments: STREET-FRONT 30.00 REAR 25.00 SIDE 25.00

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

PARCEL ID 01-5S-16-03397-205 SUBDIVISION COVE @ ROSE CREEK

LOT 1 BLOCK 3 PHASE UNIT TOTAL ACRES 1.63

000001554		RB29003130	Melanie Roder	
Culvert Permit No.	Culvert Waiver	Contractor's License Number	Applicant/Owner/Contractor	
18"X32'MITERED	08-0132	BLK	JTH	N
Driveway Connection	Septic Tank Number	LU & Zoning checked by	Approved for Issuance	New Resident

COMMENTS: MFE @ 76.00' ELEVATION CONFIRMATION LETTER REQUIRED.
SECTION 14.9 SPECIAL FAMILY LOT PERMIT.

Check # or Cash 1880

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 $ 705.00 CERTIFICATION FEE $ 14.05 SURCHARGE FEE $ 14.05

MISC. FEES $ 0.00 ZONING CERT. FEE $ 50.00 FIRE FEE $ 0.00 WASTE FEE $

FLOOD DEVELOPMENT FEE $ FLOOD ZONE FEE $ 25.00 CULVERT FEE $ 25.00 **TOTAL FEE** 833.10

INSPECTORS OFFICE CLERKS OFFICE MSG

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."

EVERY PERMIT ISSUED SHALL BECOME INVALID UNLESS THE WORK AUTHORIZED BY SUCH PERMIT IS COMMENCED WITHIN 180 DAYS AFTER ITS ISSUANCE, OR IF THE WORK AUTHORIZED BY SUCH PERMIT IS SUSPENDED OR ABANDONED FOR A PERIOD OF 180 DAYS AFTER THE TIME THE WORK IS COMMENCED. A VALID PERMIT RECIEVES AN APPROVED INSPECTION EVERY 180 DAYS. WORK SHALL BE CONSIDERED TO BE IN ACTIVE PROGESS WHEN THE PERMIT HAS RECIEVED AN APPROVED INSPECTION WITHIN 180 DAYS.

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

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.

#26742

Section 1: General Information (Treating Company Information)

Company Name: **Aspen Pest Control, Inc.**
Company Address: **P.O. Box 1795** City **Lake City** State **FL** Zip **32056**
Company Business License No. **JB100478** Company Phone No. **386-755-3811 • 352-494-8751**
FHA/VA Case No. (If any)

Section 2: Builder Information

Company Name: James Cook Company Phone No. 623-4623

Section 3: Property Information

Location of Structure(s) Treated (Street Address or Legal Description, City, State and Zip) 141 SW Emerywood Glen
The Cove S/D Lake City, FL 32024
Lot #1

Type of Construction (More than one box may be checked) ☒ Slab ☐ Basement ☐ Crawl ☐ Other
Approximate Depth of Footing: Outside 1' Inside 2' Type of Fill Sand

Section 4: Treatment Information

Date(s) of Treatment(s) 4/17/08
Brand Name of Product(s) Used Termidor
EPA Registration No. 7969-210
Approximate Final Mix Solution % .06%
Approximate Size of Treatment Area: Sq. ft. 2043 Linear ft. 278 Linear ft. of Masonry Voids 260
Approximate Total Gallons of Solution Applied 520 gals.
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 * - Respray done on footers later that day due to wrong size of trench - 50 gals. of Termidor reapplied

Name of Applicator(s) S. Gregory Certification No. (If required by State law) JP100478

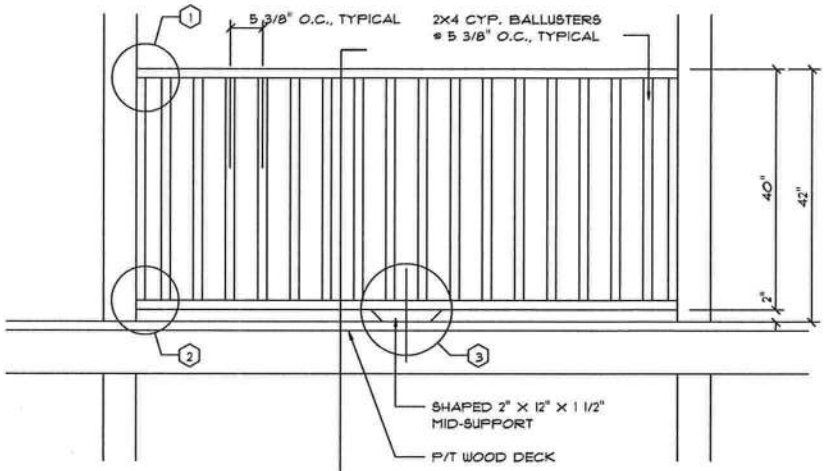
The applicator has used a product in accordance with the product label and state requirements. All treatment materials and methods used comply with state and federal regulations.

Authorized Signature Shannon Gregory Date 4/17/08

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)

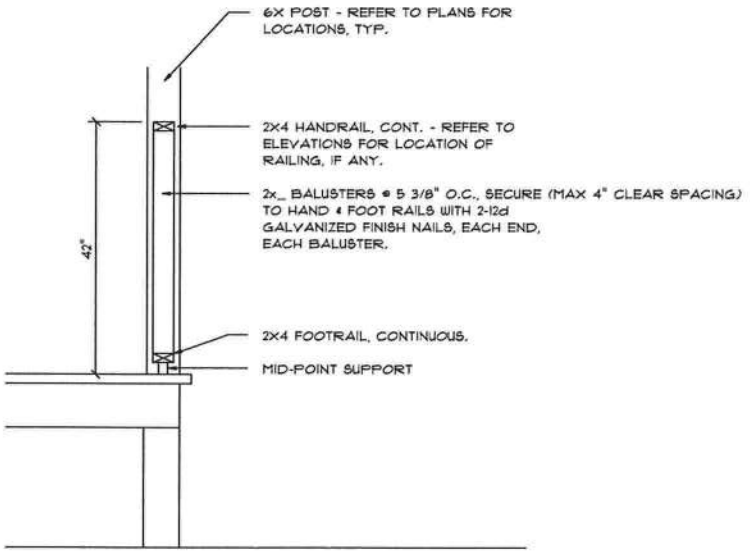
0108-149

JAMES & ERICA COOK



Railing Elevation Detail

SCALE: 3/4" = 1'-0"



Railing Section Detail

SCALE: 3/4" = 1'-0"

B

Armorcoat
Safety & Security Films

Estimate Proposal

BEKAERT

Estimate Date 12-22-08
Installation Date

Name James Cook
Address 111 SW Lawnwood Gln
City/State/Zip Lake City, FL 32024
Phone (H) 352-751-6455 (W) 386-623-4623 Fax

Film Type: ☑ Clear Safety & Security ☐ Solar Safety & Security
Warranty Type: ☑ Residential ☐ Commercial ☐ Glass Breakage ☐ IG Unit Seal Failure
Warranty Term: ☐ Lifetime ☐ 12 Year ☐ 5 Year ☐ 3 Year

This Estimate Proposal form is not a warranty certificate although one will be issued at time of installation completion. Ask your independent Solar Gard dealer for the warranty coverage details specific to your facility application and film selection.

Special Instructions:

8mil clear

Frame Type	Window Type	Glass Type
1-Wood 2-Steel 3-Aluminum 4-Vinyl 5-Rubber Gasket 6-Other	1-French Pane 2-Sliding Doors 3-Sliding Casements 4-Awning 5-Sash Style 6-Removable Storm 7-Fixed 8-Other	1-Clear Single Pane 2-Tinted Single Pane 3-Clear Double Pane 4-Tinted Double Pane 5-Annealed 6-Laminated 7-Tempered 8-Low E 9-Other

INNOCENTI'S
GLASS TINTING
869 E DUVAL ST
LAKE CITY, FL 32055

JEFF INNOCENTI 965-5962

SOLAR GARD DEALER

Room	Exposure	Frame Type	Window Type	Glass Type	Film Type	Roll #	# Of Panels	W x H	Total Square Feet	Price	Total
Str Wd	S	4	7	8-3	clear 8mil		1	32 x80	20	10.0	$200.00
								X			
								X			
								X			
								X			
								X			
								X			
								X			
								X			
								X			

ACKNOWLEDGMENT: All work is guaranteed by the installing dealer to be performed in a professional manner. Any alterations and/or deviations to the above specified Estimate Proposal involving cost changes must be agreed upon in writing by both parties. This Estimate Proposal may be withdrawn at the option of the installing dealer if not accepted within a period of days from its issuance date.

Dealer Signature [signature] Customer Signature Date 2-27-09

ACCEPTANCE: This Estimate Proposal shall constitute a contract only when signed by both parties. Only fully paid contracts will activate warranty coverage. Payment in full at installation completion is understood and accepted as the "Payment Term" unless otherwise agreed upon in writing by both parties. All performance agreements are contingent upon strikes, accidents or delays beyond the control of the installing Armorcoat dealer.

Dealer Signature [signature] Customer Signature Date 12-22-08

Sub-Total	$200.00
Tax	—
Total	$200.00
Deposit	
Balance	

WHITE: CUSTOMER INVOICE • YELLOW: BEKAERT • PINK: DEALER • GOLD: CUSTOMER ESTIMATE

Physical & Thermal Test Results

Armorcoat 10 Mil Silver 80

Armorcoat works around the clock to protect occupants and property. To increase shatter-resistance, thicker optical grade polyester is used with special laminating adhesives, giving Armorcoat its exceptional strength.

Armorcoat
Safety & Security Films

Test Name	Film Thickness				
	4 Mil (100 micron)	7 Mil (175 micron)	8 Mil (200 micron)	10 Mil (250 micron)	14 Mil (350 micron)
Tensile Strength ASTM D 882 (lbs/in²)	29,000	29,000	29,000	29,000	29,000
Elongation (%) ASTM D 882	>100	>100	>100	>100	>100
Yield Stress (5%) ASTM D 882 (lbs/in²)	15,000	15,000	15,000	15,000	15,000
Break Strength (lbs/inch)	116	203	232	290	406
Yield Strength (5%) (lbs/inch)	60	105	120	150	210
Tear Strength Graves Tear Test, ASTM D 1004 (lbs force)	6.5	18.9	21.6	27.0	37.8
Tensile Modulus ASTM D 882 (lbs/in²)	550,000	550,000	550,000	550,000	550,000
Puncture Strength ASTM D 4830 (lbs)	66	115	140	175	230
Peel Strength (g/inch of width)	>2,500	>2,500	>2,500	>2,500	>2,500
Poisson's Ratio ASTM D 882	.38	.38	.38	.38	.38
Abrasion Resistance (%) ASTM D 1003-92, ASTM D 1044 8 100 Cycles	<5	<5	<5	<5	<5
ANSI Z 97.1	Pass	Pass	Pass	Pass	Pass
CPSC CFR 1201, Category II	No	Pass	Pass	Pass	Pass
GSA Security Criteria Performance Condition, Daylight Application [1] Performance Condition, Wet Glaze [1] Performance Condition, Mechanical [2] *1=4PSI/28PSI/ms, 2=10PSI/69PSI/ms 3b*	 3b NA NA	 3b NA NA	 3b 3a 3a	 3b NA NA	 3b NA 3a
Smoke Development Index ASTM E 84	28	28	28	28	142
Flash Temperature (°F) ASTM D 1929	730	730	730	730	730
Self Ignition (°F) ASTM D 1929	750	750	750	750	750
Flame Spread Index ASTME 84	2	2	2	2	5

Notes: This test data contains results arrived at only after employing specific test procedures and standards. The included data does not constitute a recommendation for, endorsement of, or certification of the product or material tested. This data is provided for informational purposes only and are not to be considered part of the basis of any bargain or transaction involving Bekaert Specialty Films, LLC (BSF) products. BSF makes no representation or warranty, expressed or implied, including the implied warranties of merchantability or fitness for a particular purpose, that its products will conform to these test data. Extrapolation of data from the sample or samples relating to the batch or lot from which data were obtained may not correlate and should be interpreted accordingly with caution. BSF shall not be responsible for variations in quality, composition, appearance, performance, or other feature of similar subject matter produced by persons or under conditions over which BSF has no control.

GSA Federal Supply Schedule

BEKAERT

Products

Overview
Clear Safety Films
Solar Safety Films
Warranty Information
Performance Results
Test Results
Attachment Systems
Glossary

Armorcoat Safety Window Films Pass Some of the Most Stringent Testing in the Industry

Armorcoat safety window films have passed some of the toughest government and consumer testing to provide effective hurricane window protection, blast mitigation and overall window safety, making it one of the best investments for homeowners in high risk areas, commercial buildings, and government facilities. The resilient layers of high-tensile polyester, aggressive adhesives, ultraviolet inhibitors and scratch-resistant coatings provide exceptional blast mitigation and impact resistant capabilities – with thicker films offering greater protection.

Hurricane Resistance

Armorcoat 8Mil safety and security film has met the most stringent hurricane mitigation tests. These standard tests, ASTM 1886/1996 Large Missile Impact Level "C" or 4.5lb missile, ensure that Armorcoat 8Mil safety and security films offer the best protection money can buy. Conducted on 3/16" tempered glass with wind speeds up to 140 mph, these tests give property owners in hurricane prone areas the peace of mind that only comes with 24x7 window reinforcements through window film. Solar Gard Armorcoat 8Mil safety and security film is ideal for proactively safeguarding glass in residential properties up to 30 feet in height.

Human Impact Standards

To increase public safety, lawmakers developed human impact standards mandating specific strength levels for glass. To reach the required levels, glass had to be tempered or heat strengthened, however annealed glass needs window film or other enhancements to achieve compliance when necessary. The two most commonly accepted human impact standards are:

- American National Standards Institute (ANSI) Z 97.1 – testing involves glass impact of 100 and 150 foot pounds, the standard most commonly used for residential applications. Armorcoat films 4 Mil or thicker passed!
- Consumer Products Safety Commission (CPSC) Code Federal Regulations (CFR) 1201, category II – testing involves glass impact of 400 foot pounds, the standard more commonly used for commercial applications. Armorcoat films 7 Mil or thicker passed!

Test Results

This section gives you the opportunity to review our official Test Results for different scenarios.

- Armorcoat Testing "At a Glance"
- ARA Testing Report Summary (Bomb Blast)
- Small Missile Impact Testing Report
- Large Missile Impact Testing Report

Bomb Blast Testing

Applied Research Associates, Inc. (ARA), an independent research and product-testing firm,

Untreated Glass - broken glass shards are airborne at a high velocity.

2006 IBC	Florida Specific Requirements, 2004 FBC	TAC Action
2308.11.1 Number of stories. **2308.11.2 Concrete or masonry.** **2308.11.3 Framing and connection details.** **2308.11.3.1 Anchorage.** **2308.12 Additional requirements for conventional construction in Seismic Design Category D or E.**	**2308.11.1 Number of stories. Reserved.** **2308.11.2 Concrete or masonry. Reserved.** **2308.11.3 Framing and connection details. Reserved.** **2308.11.3.1 Anchorage. Reserved.** **2308.12 Additional requirements for conventional construction in Seismic Design Category D or E. Reserved.**	forward
NA	**SECTION 2314 -2330** (see 2006 Supplement) HIGH-VELOCITY HURRICANE ZONES — GENERAL	No overlap exists. Move Florida specific language forward
CHAPTER 24	**GLASS AND GLAZING**	
SECTION 2401 **GENERAL**	**SECTION 2401** **GENERAL**	
2401.1 Scope. The provisions of this chapter shall govern the materials, design, construction and quality of glass, light transmitting ceramic and light-transmitting plastic panels for exterior and interior use in both vertical and sloped applications in buildings and structures.	**2401.1 Scope.** The provisions of this chapter shall govern the materials, design, construction and quality of glass, light-transmitting ceramic and light-transmitting plastic panels for exterior and interior use in both vertical and sloped applications in buildings and structures. **Exception:** Buildings and structures located within the high-velocity hurricane zone shall comply with the provisions of 2410 through 2415.	No overlap exists. Move Florida specific language forward
2403.1 Identification. Each pane shall bear the manufacturer's mark designating the type and thickness of the glass or glazing material. The identification shall not be omitted unless approved and an affidavit is furnished by the glazing contractor certifying that each light is glazed in accordance with approved construction documents that comply with the provisions of this chapter. Safety glazing shall be identified in accordance with Section 2406.2. Each pane of tempered glass, except tempered spandrel glass, shall be permanently identified by the manufacturer. The identification mark shall be acid etched, sand blasted, ceramic fired, laser etched, embossed or of a type that, once applied, cannot be removed without being destroyed.	**2403.1 Identification.** Each pane shall bear the manufacturer's label designating the type and thickness of the glass or glazing material. With the exception of tempered glazing materials or laminated materials, the identification shall not be omitted unless approved and an affidavit is furnished by the glazing contractor certifying that each light is glazed in accordance with approved construction documents that comply with the provisions of this chapter. Safety glazing shall be identified in accordance with Section 2406.2. Each pane of tempered or laminated glass, except tempered or laminated spandrel glass, shall be permanently identified by the manufacturer. The identification label shall be acid etched,	Overlap exists. Need determination.

2006 IBC	Florida Specific Requirements, 2004 FBC	TAC Action
Tempered spandrel glass shall be provided with a removable paper marking by the manufacturer.	sand blasted, ceramic fired, embossed or shall be of a type that once applied cannot be removed without being destroyed. Tempered or laminated spandrel glass shall be provided with a removable paper marking by the manufacturer.	
SECTION 2404 **WIND, SNOW, SEISMIC** **AND DEAD LOADS ON GLASS**	**SECTION 2404** **WIND AND DEAD LOADS ON GLASS**	
2404.1 Vertical glass. Glass sloped 15 degrees (0.26 rad) or less from vertical in windows, curtain and window walls, doors and other exterior applications shall be designed to resist the wind loads in Section 1609 for components and cladding. Glass in glazed curtain walls, glazed storefronts and glazed partitions shall meet the seismic requirements of ASCE 7, Section 13.5.9. The load resistance of glass under uniform load shall be determined in accordance with ASTM E 1300. The design of vertical glazing shall be based on the following equation: *Fgw* δ *Fga* **(Equation 24-1)** where: *Fgw* = Wind load on the glass computed in accordance with Section 1609. *Fga* = Short duration load on the glass as determined in accordance with ASTM E 1300.	**2404.1 Vertical glass.** Glass sloped 15 degrees (0.26 rad) or less from vertical in windows, curtain and window walls, doors and other exterior applications shall be designed to resist the wind loads for components and cladding. The load resistance of glass under uniform load shall be determined in accordance with ASTM E 1300. Design of exterior windows and glass doors in accordance with Section 2404.1 shall utilize the same edition of ASTM E 1300 used for testing in accordance with Section 1714.5. The design of vertical glazing shall be based on the following equation: Fgw ≤ Fga (Equation 24-1) where: Fgw is the wind load on the glass computed in accordance with Section 1609 and Fga is the short duration load resistance of the glass as determined in accordance with ASTM E 1300.	Overlap exists. Need determination.
2404.2 Sloped glass. Glass sloped more than 15 degrees (0.26 rad) from vertical in skylights, sunrooms, sloped roofs and other exterior applications shall be designed to resist the most critical of the following combinations of loads. *Fg=Wo–D* **(Equation 24-2)** *Fg=Wi+D+0.5 S* **(Equation 24-3)** *Fg=0.5Wi+D+S* **(Equation 24-4)** where: *D* = Glass dead load psf (kN/m2). For glass sloped 30 degrees (0.52 rad) or less from horizontal, *D* = 13 *tg* (For SI: 0.0245 *tg*). For glass sloped more than 30 degrees (0.52 rad) from horizontal, *D* = 13 *tg* cos θ (For SI: 0.0245 *tg* cos θ).	**2404.2 Sloped glass.** Glass sloped more than 15 degrees (0.26 rad) from vertical in skylights, sunrooms, sloped roofs and other exterior applications shall be designed to resist the most critical of the following combinations of loads. Fg = Wo – D (Equation 24-3) Fg = Wi + D (Equation 24-4) Fg = 0.5 Wi + D (Equation 24-5) where: D = Glass dead load (psf)(kN/m2) For glass sloped 30 degrees (0.52 rad) or less from horizontal, D = 13 tg cos θ (For SI: 0.0245 tg cos θ). For glass sloped more than 30 degrees (0.52 rad) from	Overlap exists. Need determination.

GLASS ASSOCIATION OF NORTH AMERICA

Glass Informational Bulletin **GANA 03-0706**

Differences Between Safety Glazing Standards
CPSC 16 CFR 1201 and ANSI Z97.1-2004

In 1977, the U.S. Consumer Products Safety Commission (CPSC) adopted as a mandatory federal safety regulation *Safety Standard for Architectural Glazing Materials*, codified at 16 CFR Part 1201. [1] The CPSC amended its *Safety Standard for Architectural Glazing Materials* on several occasions subsequent to its initial adoption, the last time on June 28, 1982.

In 1966, an Accredited Standards Committee comprised of industry and public sector members first developed the *American National Standard for Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test,* under the auspices and protocol of the American National Standards Institute (ANSI). This ANSI standard has been reviewed and either renewed or revised periodically ever since, the last time in 2004. Its current version is ANSI Z97.1-2004. [2]

Set forth below are the more significant differences between these two standards, both standards applicable to safety glazing materials used in architectural applications. This bulletin makes no attempt to summarize all pertinent provisions of the two standards, only their significant differences.

Scope

The principal differences between the CPSC's 16 CFR 1201 standard and the ANSI Z97.1-2004 standard relate to their scope and function. The CPSC standard is not only a test method and a procedure for determining the safety performance of architectural glazing, but also a federal standard that mandates where and when safety glazing materials must be used in architectural applications and preempts any non-identical state or local standard. In contrast, ANSI Z97.1 is only a voluntary safety performance specification and test method. It does not attempt to declare when and where safety glazing materials must be used, leaving those determinations up to the building codes and to glass and fenestration specifiers.

2945 SW Wanamaker Drive, Suite A Topeka, KS 66614-5321
(785) 271-0208 Fax: (785) 271-0166
www.glasswebsite.com

Application

The CPSC requires the installation of safety glazing materials meeting 16 CFR 1201 only in storm doors, combination doors, entrance-exit doors, sliding patio doors, closet doors, and shower and tub doors and enclosures. Other than that, meeting CPSC's requirements is necessary only when and if a building code authority or other jurisdiction adopting safety glazing laws specifically mandates that safety glazing comply with the CPSC standard, 16 CFR 1201 -- and most building codes do.

ANSI Z97.1, as a voluntary standard, applies only when, where, and if it is adopted by a building code authority or is specified in the approved plans and specifications of the architect, building contractor, or other glass specifier.

Test Specimens

For impact testing, the CPSC requires only one specimen of each nominal thickness be submitted for testing and specifies it must be the largest size the manufacturer produces up to a maximum of size of 34″ by 76″.

ANSI Z97.1 requires that four specimens of each nominal thickness and size must be impact-tested. The manufacturer has the option of testing either 34″ by 76″ (+/- ⅛-inch) specimens or the largest size it commercially produces less than 34″ by 76″, but with a minimum size of 24″ by 30″.

Types of Glass

The CPSC standard has no performance tests for plastics or for bent glass. ANSI Z97.1 has specific tests for both.

The CPSC exempts polished wired glass from its standard when used in fire rated applications and has no separate impact test specifically designed for or applicable to wired glass. ANSI Z97.1 has a separate impact test category just for fire-resistant polished wired glass.

The CPSC standard does not prohibit the use of ordinary annealed glass in hazardous locations as long as it passes the appropriate impact tests, consistent with the concept of a performance based impact test. (Thick, heavy annealed glass is likely to pass the CPSC 18-inch drop-height and 48-inch drop-height impact tests for Category I and II locations.) ANSI Z97.1-2004 contains an express limitation on annealed glass: "Monolithic annealed in any thickness is not considered safety glazing material under this standard."

Asymmetrical Glazing Material

The CPSC standard requires all asymmetrical glazing materials to be impacted on both sides of each specimen and then evaluated under the pass-fail criteria. There is no exception.

ANSI Z97.1 requires that, with the exception of mirror glazing, all asymmetrical glass specimens

must be impacted on both sides: two on one side and two on the other. With respect to mirror glazing products using reinforced or non-reinforced organic adhesive backing, all four specimens must be impacted only on the non-reinforced side "and with no other material applied."

Impact Categories or Levels

The CPSC standard has two distinct impact levels or categories, Category I and Category II, and specifies which defined hazardous location must contain Category II safety glazing materials and which may use Category I glazing materials. Glazing material successfully passing the impact test of a 48-inch drop height, a 400 foot-pound impact, is classified as "Category II" glass. Glazing material passing the 18-inch drop height, a 150 foot-pounds impact, is classified as "Category I" glass.

ANSI Z97.1 has adopted three separate impact categories or classes, based upon impact performance. ANSI Z97.1's Class A glazing materials are comparable to the CPSC's Category II glazing materials, passing a 48-inch drop height test, and its Class B glazing materials are comparable to the CPSC's Category I glazing materials, passing the 18-inch drop height test. ANSI Z97.1 also has a product-specific Class C impact test, a 12-inch drop height test, applicable only for fire-resistant glazing materials.

Pass-Fail Impact Criteria

The CPSC standard, like the ANSI standard, offers alternative criteria for evaluating whether a test specimen passes the impact test. The CPSC standard considers the specimen a pass if a 3-inch diameter solid steel ball, weighing 4 lbs., will not pass through the opening when placed on the horizontal specimen for one second. ANSI also uses the 3-inch sphere measure, but does not require the sphere be a steel ball or specify the weight of the 3-inch sphere. It does require the sphere not pass freely through the opening when a force of 4 lbs. is applied to the sphere while the specimen is in a vertical position. There is no time element associated with this alternative.

A second alternative pass-fail criterion under the CPSC standard involves weighing the 10 largest particles selected within five minutes after the impact test -- they must weigh no more than the equivalent weight of 10 square inches of the original specimen. The ANSI standard has an identical criterion, except it also includes product-specific qualifications applicable solely to selecting the 10 largest particles of tempered glass and offers a formula for determining the weight of 10 square inches of the original specimen.

The CPSC standard has no separate pass-fail impact criteria for the scenario in which the glass specimen separates from the frame after impact and breaks or produces a hole in the glass. The ANSI standard has a special criterion for that scenario -- to pass, the glass is subjected to the same 3-inch sphere measure or to the weight criterion for the 10 largest particles.

The CPSC standard involves impact-testing of only a single specimen of each nominal glass thickness. Accordingly, if that specimen passes, all glass of that type and thickness is deemed to pass. Under the ANSI standard, four specimens of each type, size, and thickness must be impact

tested, and if any one of the four specimens fails, there is a failure of that specific type, thickness, and size.

Labeling

The CPSC standard, with one exception, does not require labels on safety glazing materials. Organic coated glass, tested for environmental durability from one side only, must be labeled, according to the CPSC standard: it must have a permanent label on the coating stating, "Glaze This Side In," and must contain a "message" remaining on the glass until installation stating, "See Permanent Label For Important Mounting Instructions."

The CPSC statute, 15 U.S.C. § 2063, requires the safety glazing manufacturer to issue a certificate of compliance, certifying its glass conforms to the requirements of the 16 CFR 1201, either Category I or Category II. The CPSC standard permits (but does not require) this certification of compliance to take the form of a permanent label on the glass as long as the label contains all the statutorily mandated certification information: that is, it must specify "16 CFR 1201 Cat. I or II," the name of the manufacturer, and the date and place of manufacture. (If the fabricator or manufacturer elects not to inscribe this certification information on a label applied to the safety glazing material, the manufacturer must include this information on a separate paper or document accompanying the glass when shipped from the fabricator to the glass distributor or retailer.)

ANSI Z97.1 requires permanent labeling. The label must contain the glass supplier's name, distinctive mark, or designation, the characters "ANSI Z97.1-2004," either an "L" or a "U" indicating test size, either "A," "B," or "C," indicating the drop height class (except plastic glazing does not require the drop height class designation), and the place of fabrication if the fabricator has more than one fabricating location. ANSI Z97.1 permits additional information on the label, including glass thickness and date of manufacture.

ANSI Z97.1 specifies how to label glazing materials cut to size after manufacturing -- stock sheets of laminated and fire-resistant wired glass must be labeled by the manufacturer, and all cut-sizes of laminated, fire-resistant wired glass, and tempered glass must be labeled by the company producing the cut-to-size glass. The safety-film installer must label all field-applied organic coatings (films). Glazing materials intended for use in indoor applications only must be permanently marked with the words, "Indoor Use Only," and the phrase, "Glaze This Side In," on all organic-coated glass that has a specific side that should be exposed.

Certification

Neither the CPSC standard nor the ANSI Z97.1 standard requires third-party testing, certification, or labeling. However, the CPSC, as noted above, requires that a certification of compliance accompany all safety glazing materials, but, as an alternative, permits this certification to take the form of a permanent label on the glass. The CPSC standard permits the manufacturer to self-certify as long as it is able to certify compliance with 16 CFR 1201 based upon "a reasonable testing program." The CPSC standard does not define "a reasonable testing

program," but it contemplates periodic testing, the frequency of which is dependent upon unspecified factors associated with the nature of the glass and manufacturing process of the fabricator. ANSI Z97.1 does not address certification.

Impact Testing Apparatus

Relatively minor technical differences exist between the test frames and impactors specified in the CPSC standard and those in ANSI Z97.1. The ANSI standard prescribes special test frame and subframe configurations for impact-testing bent glass; the CPSC standard has no provisions for testing bent glass. The ANSI standard includes detailed specifications for the impactor suspension device and traction and release system and for their operation; the CPSC standard does not.

Weathering Tests

The CPSC standard requires a weathering test only for organic coated glass. ANSI requires a weathering test for laminated glass and plastics as well as for organic coated glass.

The CPSC accelerated weathering test (only for organic coated glass) uses the xenon arc Weatherometer. The ANSI standard gives the manufacturer the choice of one of three weathering exposure alternatives, the xenon arc exposure, the enclosed twin carbon arc exposure, or the one-year outdoor exposure in South Florida. The ANSI prescribed xenon arc apparatus and procedure are the more current versions of the pertinent ASTM standards,[3] ASTM G 155-00 and ASTM D 2565-92A, than the versions referenced in the CPSC standard. The CPSC's xenon arc procedure for interpreting results of the adhesion test requires an average adhesion value or pull force of no less than 90% of the average of the unexposed organic-coated glass specimens in order to "pass," whereas the ANSI standard requires no less than 75% of the average of the unexposed specimens.

Modulus and Hardness Tests

The CPSC standard contains no modulus or hardness test whereas the ANSI standard requires both, but only for plastic glazing materials.

Indoor Aging Tests

The CPSC standard does not prescribe any indoor aging test; the ANSI standard requires specified indoor aging tests for plastics and organic coated glass intended for indoor-use only, followed by impact tests.

Non-Architectural Applications

Neither the CPSC nor the ANSI standard claims to require or address the use of tested safety glazing materials in non-architectural applications, not even in consumer products incorporating glass, such as fire-place screens, table tops, or similar furniture, subject to human impact. No

state or local laws or ordinances are known to mandate safety glazing in these non-architectural applications either.

Notwithstanding the absence of a law or regulation requiring safety glazing materials, a potential personal-injury lawsuit asserting product liability could call into question the reasonableness of the actions of the product manufacturer, specifier, fabricator, or distributor who is responsible for installing non-safety glass in a product subject to human impact. The recognized industry standard of care to which the court holds the "defendant" accountable may dictate the use of safety glazing materials in that particular application.

The Glass Association of North America (GANA) has produced this Glass Informational Bulletin solely to provide general information as to principal differences between the federal safety regulation CPSC 16 CFR 1201 and American National Standard ANSI Z97.1-2004. This bulletin makes no attempt to summarize all pertinent provisions of the two standards or to indicate where and when safety glazing materials must be used. The user of this Bulletin has the responsibility to ensure that building code requirements and project specifications are considered to determine where and when safety glazing materials must be used. GANA disclaims any responsibility for any specific results related to the use of this Bulletin, for any errors or omissions contained in the Bulletin, and for any liability for loss or damage of any kind arising out of the use of this Bulletin.

This bulletin was developed by the Glass Association of North America and approved by the membership and the GANA Board of Directors. This is the original version of the document as approved and published in July 2006.

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[1] U.S. Code of Federal Regulations: Title 16, Volume 2; Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, United States

[2] American National Standards Institute, 11 W. 42nd Street, New York, NY 10036 United States, Phone: 212.642.4900, Website: www.ansi.org

[3] ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 United States, Phone: 610.832.9500; Website: www.astm.org

FORM 600A-2004R Tested sealed ducts must be certified in this house. EnergyGauge® 4.5.2

FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs

Residential Whole Building Performance Method A

Project Name:	**James & Ericka Cook**	Builder:	**Aaron Simque Homes**
Address:	**Lot: 1 B, Sub: The Cove, Plat:**	Permitting Office:	
City, State:	**Lake City, FL 32024-**	Permit Number:	
Owner:		Jurisdiction Number:	221000
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	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2156 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 477.3 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 477.3 ft²	
8.	Floor types		
	a. Stem Wall	R=19.0, 1498.0ft²	
	b. Raised Wood, Adjacent	R=30.0, 658.0ft²	
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 690.0 ft²	
	b. Frame, Wood, Exterior	R=13.0, 1304.7 ft²	
	c. Frame, Wood, Adjacent	R=13.0, 315.0 ft²	
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 2156.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts(Leak Free)		
	a. Sup: Con. Ret: Con. AH(Scaled):Garage	Sup. R=6.0, 50.0 ft	
	b. N/A		

12.	Cooling systems		
	a. Central Unit	Cap: 54.0 kBtu/hr SEER: 15.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 54.0 kBtu/hr HSPF: 8.20	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 80.0 gallons EF: 0.92	
	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)	PT, CF,	

Glass/Floor Area: 0.22

Total as-built points: 28790

Total base points: 29334

PASS

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

PREPARED BY: _____

DATE: 1-14-08

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: _____

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** 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	2156.0	18.59	7214.0	1.Double, Clear	W	1.5	9.0	24.0	38.52	0.97	897.0	
				2.Double, Clear	W	9.5	9.0	40.0	38.52	0.52	796.0	
				3.Double, Clear	S	11.5	9.0	15.0	35.87	0.49	262.0	
				4.Double, Clear	W	1.5	9.0	36.0	38.52	0.97	1345.0	
				5.Double, Clear	N	1.5	9.0	15.0	19.20	0.98	280.0	
				6.Double, Clear	W	1.5	9.0	30.0	38.52	0.97	1121.0	
				7.Double, Clear	N	1.5	9.0	20.0	19.20	0.98	374.0	
				8.Double, Clear	N	1.5	9.0	16.0	19.20	0.98	299.0	
				9.Double, Clear	N	1.5	9.0	3.0	19.20	0.98	56.0	
				10.Double, Clear	E	1.5	9.0	18.0	42.06	0.97	734.0	
				11.Double, Clear	E	1.5	9.0	8.0	42.06	0.97	326.0	
				12.Double, Clear	E	1.5	16.0	21.0	42.06	1.00	878.0	
				13.Double, Clear	E	7.0	9.0	13.3	42.06	0.58	326.0	
				14.Double, Clear	E	1.5	8.0	30.0	42.06	0.96	1208.0	
				15.Double, Clear	S	1.5	9.0	6.0	35.87	0.94	203.0	
				16.Double, Clear	W	1.5	8.0	32.0	38.52	0.96	1181.0	
				17.Double, Clear	W	1.5	8.0	20.0	38.52	0.96	738.0	
				18.Double, Clear	S	1.5	8.0	15.0	35.87	0.92	496.0	
				19.Double, Clear	W	1.5	8.0	36.0	38.52	0.96	1328.0	
				20.Double, Clear	N	1.5	8.0	15.0	19.20	0.97	278.0	
				21.Double, Clear	E	1.5	8.0	32.0	42.06	0.96	1288.0	
				22.Double, Clear	E	1.5	8.0	32.0	42.06	0.96	1288.0	
				As-Built Total:				**477.3**			**15702.0**	

WALL TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	= Points
Adjacent	315.0	0.70	220.5	1. Frame, Wood, Exterior	13.0	690.0	1.50	1035.0
Exterior	1994.7	1.70	3391.0	2. Frame, Wood, Exterior	13.0	1304.7	1.50	1957.0
				3. Frame, Wood, Adjacent	13.0	315.0	0.60	189.0
Base Total:	**2309.7**		**3611.5**	**As-Built Total:**		**2309.7**		**3181.0**

DOOR TYPES	Area X	BSPM	= Points	Type	Area X	SPM	= Points
Adjacent	18.0	2.40	43.2	1.Exterior Insulated	20.0	4.10	82.0
Exterior	20.0	6.10	122.0	2.Adjacent Insulated	18.0	1.60	28.8
Base Total:	**38.0**		**165.2**	**As-Built Total:**	**38.0**		**110.8**

SUMMER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM X SCM	=	Points
Under Attic	658.0	1.73	1138.3	1. Under Attic	30.0	2156.0	1.73 X 1.00		3729.9
Base Total:	**658.0**		**1138.3**	**As-Built Total:**		**2156.0**			**3729.9**
FLOOR TYPES	Area X	BSPM	= Points	Type	R-Value	Area X	SPM	=	Points
Slab	0.0(p)	0.0	0.0	1. Stem Wall	19.0	1498.0	-4.70		-7040.6
Raised	2156.0	-3.99	-8602.4	2. Raised Wood, Adjacent	30.0	658.0	0.40		263.2
Base Total:			**-8602.4**	**As-Built Total:**		**2156.0**			**-6777.4**
INFILTRATION	Area X	BSPM	= Points			Area X	SPM	=	Points
	2156.0	10.21	22012.8			2156.0	10.21		22012.8
Summer Base Points: 25539.4				**Summer As-Built Points:**					**37959.1**
Total Summer Points	X System Multiplier	= Cooling Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Cooling Points
				(sys 1: Central Unit 54000btuh ,SEER/EFF(15.0) Ducts:Con(S),Con(R),Gar(AH),R6.0(INS)					
				37959	1.00	(1.00 x 1.000 x 1.00)	0.228	0.902	7794.9
25539.4	**0.3250**	**8300.3**		**37959.1**	**1.00**	**1.000**	**0.228**	**0.902**	**7794.9**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** 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	2156.0	20.17	7828.0	1.Double, Clear	W	1.5	9.0	24.0	20.73	1.01	501.0	
				2.Double, Clear	W	9.5	9.0	40.0	20.73	1.17	972.0	
				3.Double, Clear	S	11.5	9.0	15.0	13.30	3.11	619.0	
				4.Double, Clear	W	1.5	9.0	36.0	20.73	1.01	752.0	
				5.Double, Clear	N	1.5	9.0	15.0	24.58	1.00	368.0	
				6.Double, Clear	W	1.5	9.0	30.0	20.73	1.01	626.0	
				7.Double, Clear	N	1.5	9.0	20.0	24.58	1.00	491.0	
				8.Double, Clear	N	1.5	9.0	16.0	24.58	1.00	393.0	
				9.Double, Clear	N	1.5	9.0	3.0	24.58	1.00	73.0	
				10.Double, Clear	E	1.5	9.0	18.0	18.79	1.02	343.0	
				11.Double, Clear	E	1.5	9.0	8.0	18.79	1.02	152.0	
				12.Double, Clear	E	1.5	16.0	21.0	18.79	1.01	396.0	
				13.Double, Clear	E	7.0	9.0	13.3	18.79	1.22	305.0	
				14.Double, Clear	E	1.5	8.0	30.0	18.79	1.02	574.0	
				15.Double, Clear	S	1.5	9.0	6.0	13.30	1.02	81.0	
				16.Double, Clear	W	1.5	8.0	32.0	20.73	1.01	670.0	
				17.Double, Clear	W	1.5	8.0	20.0	20.73	1.01	419.0	
				18.Double, Clear	S	1.5	8.0	15.0	13.30	1.04	207.0	
				19.Double, Clear	W	1.5	8.0	36.0	20.73	1.01	754.0	
				20.Double, Clear	N	1.5	8.0	15.0	24.58	1.00	368.0	
				21.Double, Clear	E	1.5	8.0	32.0	18.79	1.02	613.0	
				22.Double, Clear	E	1.5	8.0	32.0	18.79	1.02	613.0	
				As-Built Total:				**477.3**			**10290.0**	

WALL TYPES	Area X	BWPM	= Points	Type	R-Value	Area X	WPM	= Points
Adjacent	315.0	3.60	1134.0	1. Frame, Wood, Exterior	13.0	690.0	3.40	2346.0
Exterior	1994.7	3.70	7380.4	2. Frame, Wood, Exterior	13.0	1304.7	3.40	4436.0
				3. Frame, Wood, Adjacent	13.0	315.0	3.30	1039.5
Base Total:	**2309.7**		**8514.4**	**As-Built Total:**		**2309.7**		**7821.5**

DOOR TYPES	Area X	BWPM	= Points	Type	Area X	WPM	= Points
Adjacent	18.0	11.50	207.0	1.Exterior Insulated	20.0	8.40	168.0
Exterior	20.0	12.30	246.0	2.Adjacent Insulated	18.0	8.00	144.0
Base Total:	**38.0**		**453.0**	**As-Built Total:**	**38.0**		**312.0**

WINTER CALCULATIONS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** PERMIT #:

BASE				AS-BUILT					
CEILING TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM X WCM =		Points
Under Attic	658.0	2.05	1348.9	1. Under Attic	30.0	2156.0	2.05 X 1.00		4419.8
Base Total:	**658.0**		**1348.9**	**As-Built Total:**		**2156.0**			**4419.8**
FLOOR TYPES	Area X	BWPM =	Points	Type	R-Value	Area X	WPM	=	Points
Slab	0.0(p)	0.0	0.0	1. Stem Wall	19.0	1498.0	2.30		3445.4
Raised	2156.0	0.96	2069.8	2. Raised Wood, Adjacent	30.0	658.0	2.20		1447.6
Base Total:			**2069.8**	**As-Built Total:**		**2156.0**			**4893.0**
INFILTRATION	Area X	BWPM =	Points			Area X	WPM	=	Points
	2156.0	-0.59	-1272.0			2156.0	-0.59		-1272.0
Winter Base Points:			**18942.0**	**Winter As-Built Points:**					**26464.2**
Total Winter Points	X System Multiplier	= Heating Points		Total Component (System - Points)	X Cap Ratio	X Duct Multiplier (DM x DSM x AHU)	X System Multiplier	X Credit Multiplier	= Heating Points
18942.0	**0.5540**	**10493.9**		(sys 1: Electric Heat Pump 54000 btuh ,EFF(8.2) Ducts:Con(S),Con(R),Gar(AH),R6.0					
				26464.2	1.000	(1.000 x 1.000 x 1.00)	0.416	0.950	10455.0
				26464.2	**1.00**	**1.000**	**0.416**	**0.950**	**10455.0**

WATER HEATING & CODE COMPLIANCE STATUS

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** 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
4		2635.00	10540.0	80.0	0.92	4		1.00	2635.00	1.00	10540.0
				As-Built Total:							**10540.0**

CODE COMPLIANCE STATUS

BASE				AS-BUILT			
Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points	Cooling Points	+ Heating Points	+ Hot Water Points	= Total Points
8300	**10494**	**10540**	**29334**	**7795**	**10455**	**10540**	**28790**

PASS

Code Compliance Checklist

Residential Whole Building Performance Method A - Details

ADDRESS: **Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-** 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 612.1.ABC.3.2. Switch or clearly marked cir 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.	

Tested sealed ducts must be certified in this house.

ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

ESTIMATED ENERGY PERFORMANCE SCORE* = 85.6

The higher the score, the more efficient the home.

, Lot: 1 B, Sub: The Cove, Plat: , Lake City, FL, 32024-

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	4	
5.	Is this a worst case?	No	
6.	Conditioned floor area (ft²)	2156 ft²	
7.	Glass type[1] and area: (Label reqd. by 13-104.4.5 if not default)		
	a. U-factor: (or Single or Double DEFAULT)	7a. (Dble Default) 477.3 ft²	
	b. SHGC: (or Clear or Tint DEFAULT)	7b. (Clear) 477.3 ft²	
8.	Floor types		
	a. Stem Wall	R=19.0, 1498.0ft²	
	b. Raised Wood, Adjacent	R=30.0, 658.0ft²	
	c. N/A		
9.	Wall types		
	a. Frame, Wood, Exterior	R=13.0, 690.0 ft²	
	b. Frame, Wood, Exterior	R=13.0, 1304.7 ft²	
	c. Frame, Wood, Adjacent	R=13.0, 315.0 ft²	
	d. N/A		
	e. N/A		
10.	Ceiling types		
	a. Under Attic	R=30.0, 2156.0 ft²	
	b. N/A		
	c. N/A		
11.	Ducts(Leak Free)		
	a. Sup: Con. Ret: Con. AH(Sealed):Garage	Sup. R=6.0, 50.0 ft	
	b. N/A		

12.	Cooling systems		
	a. Central Unit	Cap: 54.0 kBtu/hr	
		SEER: 15.00	
	b. N/A		
	c. N/A		
13.	Heating systems		
	a. Electric Heat Pump	Cap: 54.0 kBtu/hr	
		HSPF: 8.20	
	b. N/A		
	c. N/A		
14.	Hot water systems		
	a. Electric Resistance	Cap: 80.0 gallons	
		EF: 0.92	
	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)	PT, CF,	

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 850/487-1824.*

1 Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4.

Energy Code Compliance

Duct System Performance Report

Project Name:	James & Ericka Cook	Builder:	Aaron Simque Homes
Address:		Permitting Office:	
City, State:	Lake City, FL 32024-	Permit Number:	
Owner:		Jurisdiction Number:	
Climate Zone:	North		

Total Duct System Leakage Test Results

CFM25 Total Duct Leakage Test Values			
Line	System	Duct Leakage Total	Duct Leakage to Outdoors
1	System1	_____ cfm25(tot)	_____ cfm25(out)
2	System2	_____ cfm25(tot)	_____ cfm25(out)
3	System3	_____ cfm25(tot)	_____ cfm25(out)
4	System4	_____ cfm25(tot)	_____ cfm25(out)
5	**Total House Duct System Leakage**	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,tot) ☐ Receive credit if Q_n,tot≤ 0.03	Sum lines 1-4 _____ Divide by _____ (Total Conditioned Floor Area) = _____ (Q_n,out) ☐ Receive credit if Q_n,out≤ 0.03 AND Q_n,tot≤ 0.09

I hereby certify that the above duct testing performance results demonstrate compliance with the Florida Energy Code requirements in accordance with Section 610.1.A.1, Florida Building Code, Building Volume, Chapter 13 for leak free duct system credit.

Signature: _____

Printed Name: _____

Florida Rater Certification #: _____

DATE: _____

Florida Building Code requires that testing to confirm leak free duct systems be performed by a Class 1 Florida Energy Gauge Certified Energy Rater. Certified Florida Class 1 raters can be found at: http://energygauge.com/search.htp

BUILDING OFFICIAL: _____

DATE: _____

Return to:
Sierra Title
08-0004

#26742

PREPARED BY:
Brenda Mayweather
Robertson & Anschutz
10333 Richmond Avenue, Suite 550
Houston, TX 77042

AFTER RECORDED RETURN TO:

Bank of America, N.A.
9000 Southside Blvd., Ste. 700
Jacksonville, FL 32256

Inst:200812006260 Date:3/31/2008 Time:12:48 PM
DC,P.DeWitt Cason,Columbia County Page 1 of 4 B:1146 P:2307

NOTICE OF COMMENCEMENT

Permit No. _____ Tax Folio No. _____

State of Florida
County of Columbia

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: Parcel No. _____
141 Southwest Emorywood Glen
Lake City, FL 32024

See Exhibit "A" attached hereto and made a part hereof for all purposes
(Legal description of the property and street address if available)

2. General Description of Improvement:

Construction of custom house, well and septic

3. Owner Information:
Name: **James Cook and Ericka Cook, husband and wife**
Address: **467 SW Finley Little Lane**
Lake City, FL 32024
Interest in Property: _____

Fee Simple Titleholder (if other than owner):
Name: **James Cook and Ericka Cook, husband and wife**
Address: **467 SW Finley Little Lane**
Lake City, FL 32024

4. Contractor:
Name: **Simque Construction, Inc.**
Address: **122 SW Midtown Place**
Lake City FL 32025
Phone: **386-755-7787**

5. Surety:
Name: _____
Address: _____
_____
Phone: _____ Amount of Bond: $ _____

6. Lender:
Name: **Bank of America, N.A.**
Address: **1201 Main Street, 11th Floor, Dallas, TX 75202-0000**
Phone: **877-719-6142**

7. 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
Name: _____
Address: _____
Phone numbers of designated persons: _____

8. In addition to himself or herself, Owner designates _____ of _____ to receive a copy of the Lienor's Notice as provided in Section 713.13(1)(b), Florida Statutes.
Phone number of person or entity designated by owner: _____

9. Expiration date of Notice of Commencement (the expiration date is (1) year from the date of recording unless specified): _____

WARNING TO OWNER: ANY PAYMENTS MADE BY THE OWNER AFTER THE EXPIRATION OF THE NOTICE OF COMMENCEMENT ARE CONSIDERED IMPROPER PAYMENTS UNDER CHAPTER 713, PART 1, SECTION 71 3.13, FLORIDA STATUTES, AND CAN RESULT IN YOUR PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR AN ATTORNEY BEFORE COMMENCING WORK OR RECORDING YOUR NOTICE OF COMMITMENT.

_____
Signature of Owner or Owner's Authorized Officer/Director/Partner/Manager

_____
Signatory's Title/Office

State of FLORIDA
County of COLUMBIA

The foregoing instrument was acknowledged before me this 27 day of March 2008 by JAMES COOK & ERICKA CODIC, who is personally known to me or has produced FL DRIVERS LICENSES as identification.

Notary Public

Matthew Rocco

Printed Name
My Commission Expires:

Notary Public State of Florida
Matthew Rocco
My Commission DD578349
Expires 09/17/2010

Under penalties of perjury, I declare that I have read the foregoing and that the facts stated in it are true to the best of my knowledge and belief.

Signature of Natural Person Signing Above

Loan No.: 6822463383

EXHIBIT "A"

Commence at the Northeast corner of Lot 1, Cove at Rose Creek, a subdivision as recorded in Plat Book 8, Pages 107 -109 of the Public Records of Columbia County, Florida and run thence S 89°22'22" W. along the North line of said Lot 1, 141.36 feet to the Point of Beginning, thence continue S 89°22'22" W. along said North line, 112.54 feet, thence S 12°43'13" E. 579.16 feet to a point on a curve on the North right of way of SW Emorywood Glen, thence run Easterly along said North right of way along the arc of said curve concave to the North having a radius of 470.00 feet, a central angle of 18°04'51", a chord bearing and distance of N 75°09'01" E - 147.70 feet, an arc distance of 148.32 feet, thence N 16°38'01" W. 546.22 feet to the Point of Beginning.

BAILEY BISHOP & LANE, INC.

Engineers *Surveyors* *Planners*

April 7, 2008

Aaron Simque
486 SW Commerce Drive
Suite 130
Lake City, FL 32025

RE: James Cook Foundation Letter

Dear Aaron Simque:

We have performed a vertical survey on the foundation located at Parcel 1B of Lot 1, Cove at Rose Creek (being parcel #03397-201), Columbia County, Florida and have determined the following:

- The Subdivision plat requires the minimum finish floor elevation to be 76.0'.
- The proposed finish floor elevation is to be 79.3', being 3.3' above the required elevation.

Sincerely,

Scott Daniel, PSM
Director of Surveying
Bailey Bishop & Lane, Inc.

P. O. Box 3717	Lake City, FL 32056-3717	Ph. (386) 752-5640	FAX (386) 755-7771
P. O. Box 814	Port St. Joe, FL 32457	Ph. (850) 227-9449	FAX (850) 227-9650
1835 Fiddler Court	Tallahassee, FL 32308	Ph. (850) 894-1200	FAX (850) 894-0200

0801-149

PAT LYNCH
LYNCH DRILLING CORP.
P. O. BOX 934
BRANFORD, FL 32008
(386) 935-1076 PHONE
(386) 935-1199 FAX

DATE: 01-31-08

CUSTOMER: James Cook

LOCATION: Columbia County

Parcel # 01-55-16-03397-205

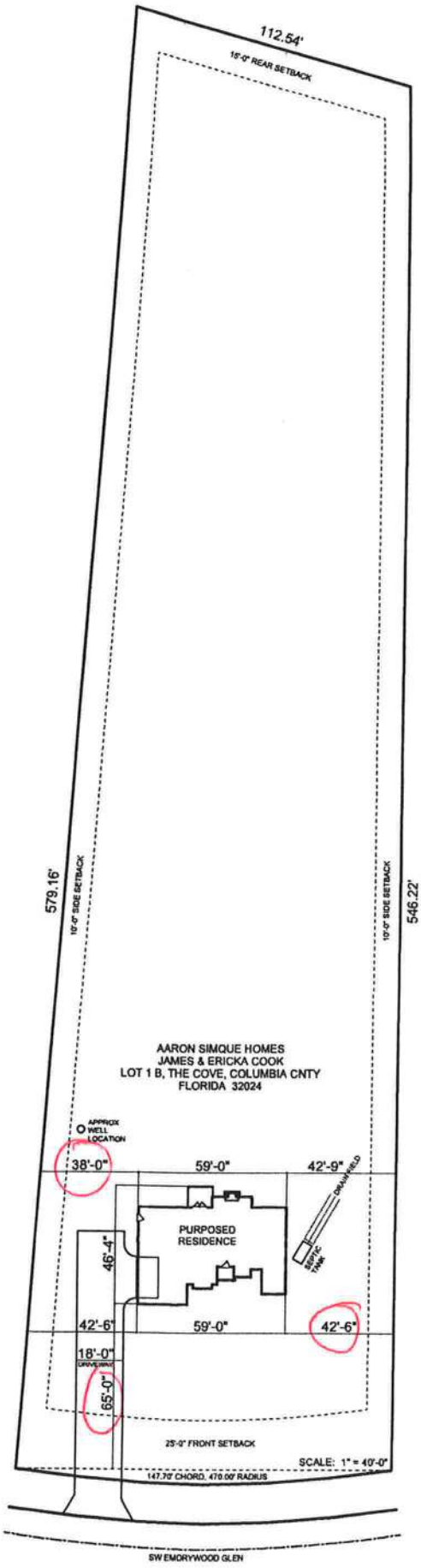
WE WILL CONSTRUCT A 4' WATER WELL COMPLETE WITH 4" BLACK WATER WELL STEEL CASING, IHP SUBMERSIBLE PUMP (20GPM) WITH 1 1/4 " GALVANIZED DROP PIPE, AND AN 81 GALLON CAPTIVE AIR TANK (21.9 GALLON DRAWDOWN)

WELL WILL BE COMPLETE AT THE WELL SITE. WE DO NOT INCLUDE ELECTRICAL NOR PLUMBING CONNECTIONS FROM THE WELL TO THE HOME AND/OR POWER POLE.

ANY VARIATIONS OF THE ABOVE ARE SUBJECT TO APPROVAL FROM THE CUSTOMER AND/OR CONTRACTOR PRIOR TO COMMENSEMENT OF THE INDIVIDUAL JOB.

NOT RESPONSIBLE FOR THE QUALITY OF WATER

752-2282


112.54'
15'-0" REAR SETBACK
579.16'
10'-0" SIDE SETBACK
546.22'
10'-0" SIDE SETBACK
AARON SIMQUE HOMES
JAMES & ERICKA COOK
LOT 1 B, THE COVE, COLUMBIA CNTY
FLORIDA 32024
APPROX WELL LOCATION
38'-0"
59'-0"
42'-9"
DRAIN FIELD
SEPTIC TANK
PURPOSED RESIDENCE
46'-4"
42'-6"
59'-0"
42'-6"
16'-0" DRIVEWAY
65'-0"
25'-0" FRONT SETBACK
SCALE: 1" = 40'-0"
147.70' CHORD, 470.00' RADIUS
SW EMORYWOOD GLEN

COLUMBIA COUNTY 9-1-1 ADDRESSING

P. O. Box 1787, Lake City, FL 32056-1787
PHONE: (386) 758-1125 * FAX: (386) 758-1365 * Email: ron_croft@columbiacountyfla.com

Addressing Maintenance

To maintain the Countywide Addressing Policy you must make application for a 9-1-1 Address at the time you apply for a building permit. The established standards for assigning and posting numbers to all principal buildings, dwellings, businesses and industries are contained in Columbia County Ordinance 2001-9. The addressing system is to enable Emergency Service Agencies to locate you in an emergency, and to assist the United States Postal Service and the public in the timely and efficient provision of services to residents and businesses of Columbia County.

DATE REQUESTED: 1/14/2008 **DATE ISSUED:** 1/16/2008

ENHANCED 9-1-1 ADDRESS:

141 SW EMORYWOOD GLN

LAKE CITY FL 32024

PROPERTY APPRAISER PARCEL NUMBER:

01-5S-16-03397-201

Remarks:

LOT 1B

Address Issued By: _____

Columbia County 9-1-1 Addressing / GIS Department

NOTICE: THIS ADDRESS WAS ISSUED BASED ON LOCATION INFORMATION RECEIVED FROM THE REQUESTER. SHOULD, AT A LATER DATE, THE LOCATION INFORMATION BE FOUND TO BE IN ERROR, THIS ADDRESS IS SUBJECT TO CHANGE.

Approved Address

1102

JAN 16 2008

911Addressing/GIS Dept

Warranty Deed

This Indenture, made this January, 11th, 2008 A.D.
Between

Mark Cook, a married person whose post office address is: P.O. Box 2695, Lake City FL 32056; Grantor and **James Cook** whose post office address is: P.O. Box 2276, Lake City FL 32056, Grantee,

Inst:200812000845 Date:1/15/2008 Time:3:17 PM
Doc Stamp-Deed:0.70
DC,P.DeWitt Cason,Columbia County Page 1 of 2

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.

The above described property does not constitute the homestead property of the grantor described herein.

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

Parcel Identification Number: A part of 03397-201

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.

TOGETHER with all tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

TO HAVE AND TO HOLD, the same in fee simple forever.

AND the grantor hereby covenants with said grantee that the grantor is lawfully seized of said land in fee simple; that the grantor has good right and lawful authority to sell and convey said land; that the grantor hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances, except taxes accruing subsequent to December 31, 2007.

In Witness Whereof, the said Grantor has caused this instrument to be executed in its name the day and year first above written.

Signed and Sealed in Our Presence:

Witness Print Name: Aaron Nicholson

Witness Print Name: Chad Stewart

MARK COOK

State of Florida
County of COLUMBIA

The foregoing instrument was acknowledged before me this 11 day of January 2008, by MARK COOK, A Married Person, and He is personally known to me or has produced a Drivers License as identification.

Notary Public State of Florida
Chad Stewart
My Commission DD416261
Expires 06/25/2009

Notary Public
Notary Printed Name: Chad Stewart

My Commission Expires: 6-25-09

Lot 1, Cove at Rose Creek, a subdivision according to the plat thereof recorded in Plat Book 8, Page 107-109, public records, Columbia County, Florida

Less and Except

BEGIN AT THE NORTHEAST CORNER OF LOT 1, COVE AT ROSE CREEK, A SUBDIVISION AS RECORDED IN PLAT BOOK 8, PAGES 107-109, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIA, AND RUN THENCE S 18°41'29" E ALONG THE EAST LINE OF SAID LOT 1, 454.76 FEET TO A POINT ON A CURVE ON THE NORTH RIGHT OF WAY OF SW EMORYWOOD GLEN; THENCE WESTERLY, ALONG SAID NORTH RIGHT OF WAY LINE, ALONG SAID CURVE CONCAVE TO THE NORTH, HAVING A RADIUS OF 470.00 FEET, A CENTRAL ANGLE OF 19°44'13", A CHORD BEARING AND DISTANCE OF S 54°14'29" W - 161.10 FEET, AN ARC DISTANCE OF 161.90 FEET; THENCE N 16°38'01" W, 546.22 FEET TO THE NORTH LINE OF AFORESAID LOT 1; THENCE N 89°22'22" E, ALONG SAID NORTH LINE141.36 FEET TO THE POINT OF BEGINNING.

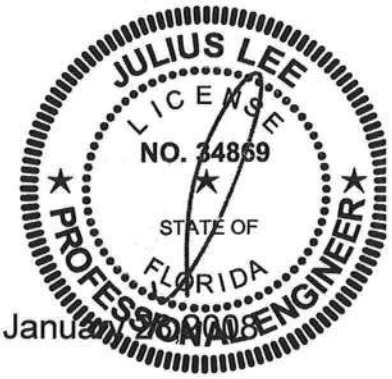
AND

Less and Except

Begin at the Northwest corner of Lot 1, COVE AT ROSE CREEK, a subdivision as recorded in Plat Book 8, Pages 107-109 of the Public Records of Columbia County, Florida and run thence S 00°59'15" W, along the East maintained right of way of SW Walter Avenue, 555.21 feet to the North right of way of SW Emorywood Glen; thence S 47°14'30" E, along said North right of way, 21.85 feet; thence N 89°22'22" E, along said North right of way, 148.68 feet to a Point of a curve; thence run Easterly along said North right of way, along the arc of said curve concave to the North having a radius of 470.00 feet, a central angle of 07°10'56", a chord bearing and distance of N 85°46'54" E - 58.88 feet, an arc distance of 58.92 feet; thence N 12°43'13" W, 579.16 feet to the North line of aforesaid Lot 1; thence S 89°22'22" W, along said North line, 86.34 feet to the Point of Beginning.

0801-149

Builders FirstSource



Project Information for: **L265361F**

Builder: Aaron Simque Homes, Inc.
Lot : 1
Subdivision: The Cove
County: Columbia
Truss Count: 15
Design Program: MiTek 20/20 6.3
Building Code: FBC2004/TPI2002

Truss Design Load Information:

Gravity: **Wind:**

Roof (psf): N/A Wind Standard: N/A Wind Exposure: N/A
Floor (psf): 55.0 Wind Speed (mph): N/A

Note: See the individual truss drawings for special loading conditions.

Contractor of Record, responsible for structural engineering:

Aaron D. Simque Florida Registered Building Contractor License No. RB29003130
Address: Aarom Simque Homes, Inc. Route 9 Box 785-33 Lake City, FL 32024

Truss Design Engineer: Julius Lee, PE Florida P.E. License No. 34869
Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

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 1-2002 Section 2.2
2. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.
3. The Truss Design Engineer's responsibility relative to this structure consists solely of the design of the individual truss components and does not include the design of any additional structural elements including but not limited to continuous lateral bracing elelments in the web and chord planes. See Florida Administrative Code 61G15-31.003 sections 3 c) & 5 and Chapter 2 of the National Design Standard for Metal Plate Connected Wood Truss Construction ANSI/TPI 1-2002 for additional information on the responsibilities of the delegated "Truss Design Engineer". Builders FirstSource and Julius Lee, PE do not accept any additional delegations beyond the scope of work described in the referenced documents above.

No.	Drwg. #	Truss ID	Date
1	J1927004	F01	1/28/08
2	J1927005	F01A	1/28/08
3	J1927006	F02	1/28/08
4	J1927007	F03	1/28/08
5	J1927008	F03KW	1/28/08
6	J1927009	F04	1/28/08
7	J1927010	F04KW	1/28/08
8	J1927011	F05	1/28/08
9	J1927013	F07	1/28/08
10	J1927014	F08	1/28/08
11	J1927015	F09	1/28/08
12	J1927016	F09A	1/28/08
13	J1927017	F10	1/28/08
14	J1927018	F11	1/28/08
15	J1927019	F12	1/28/08

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F01	FLOOR	1	1	J1927004
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 28 13:08:09 2008 Page 1

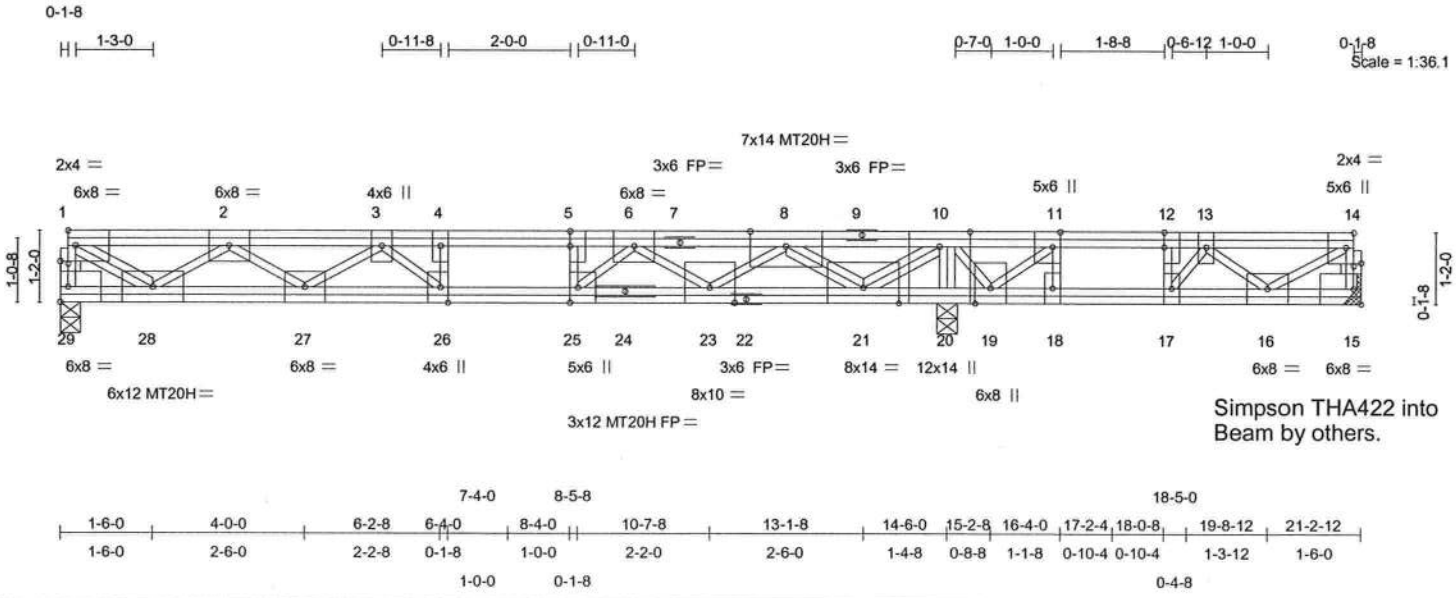


Plate Offsets (X,Y): [1:0-1-8,0-0-8], [5:0-3-0,0-0-0], [11:0-3-0,Edge], [12:0-3-0,0-0-0], [14:0-1-8,0-0-8], [14:0-3-0,Edge], [25:0-3-0,Edge], [26:0-3-0,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.89	Vert(LL)	-0.14	26	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.91	Vert(TL)	-0.38	26-27	>453	240	MT20H	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(TL)	0.05	15	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 170 lb	

LUMBER
TOP CHORD 4 X 2 SYP No.1D
BOT CHORD 4 X 2 SYP No.1D
WEBS 4 X 2 SYP No.3

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

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 29=2162/0-4-0, 20=4079/0-4-0, 15=651/Mechanical
Max Grav 29=2177(load case 7), 20=4079(load case 1), 15=1025(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-29=-2166/0, 14-15=-1053/0, 1-2=-2645/0, 2-3=-6406/0, 3-4=-7654/0, 4-5=-7654/0, 5-6=-7654/0, 6-7=-5022/0, 7-8=-5022/0, 8-9=-476/0, 9-10=-476/0, 10-11=0/2411, 11-12=-918/916, 12-13=-918/916, 13-14=-1036/0
BOT CHORD 28-29=-0/0, 27-28=0/5225, 26-27=0/7489, 25-26=0/7654, 24-25=0/6733, 23-24=0/6733, 22-23=0/3251, 21-22=0/3251, 20-21=-2851/0, 19-20=-3220/0, 18-19=-916/918, 17-18=-916/918, 16-17=-178/1537, 15-16=0/0
WEBS 4-26=-470/0, 5-25=-906/0, 11-18=0/771, 12-17=0/715, 10-20=-3770/0, 1-28=0/3203, 2-28=-3146/0, 2-27=0/1465, 3-27=-1343/0, 3-26=-206/735, 10-21=0/3661, 8-21=-3519/0, 8-23=0/2209, 6-23=-2186/0, 6-25=0/1664, 11-19=-2748/0, 10-19=0/1616, 14-16=0/1234, 13-16=-683/303, 13-17=-1537/0

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1109 Coastal Bay Blvd
Boynton Beach, FL 33435

JOINT STRESS INDEX
1 = 0.84, 1 = 0.49, 2 = 0.99, 3 = 0.80, 4 = 0.33, 5 = 0.39, 6 = 0.79, 7 = 0.33, 8 = 0.82, 9 = 0.14, 10 = 0.00, 11 = 0.77, 12 = 0.44, 13 = 0.82, 14 = 0.76, 14 = 0.49, 15 = 0.41, 16 = 0.59, 17 = 0.81, 18 = 0.47, 19 = 0.92, 20 = 0.85, 21 = 0.97, 22 = 0.53, 23 = 0.94, 24 = 0.68, 25 = 0.91, 26 = 0.59, 27 = 0.70, 28 = 0.91 and 29 = 0.84

January 28,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F01	FLOOR	1	1	J1927004
					Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x6 MT20 unless otherwise indicated.
4) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 22, 24, 7 and 9.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S) Standard

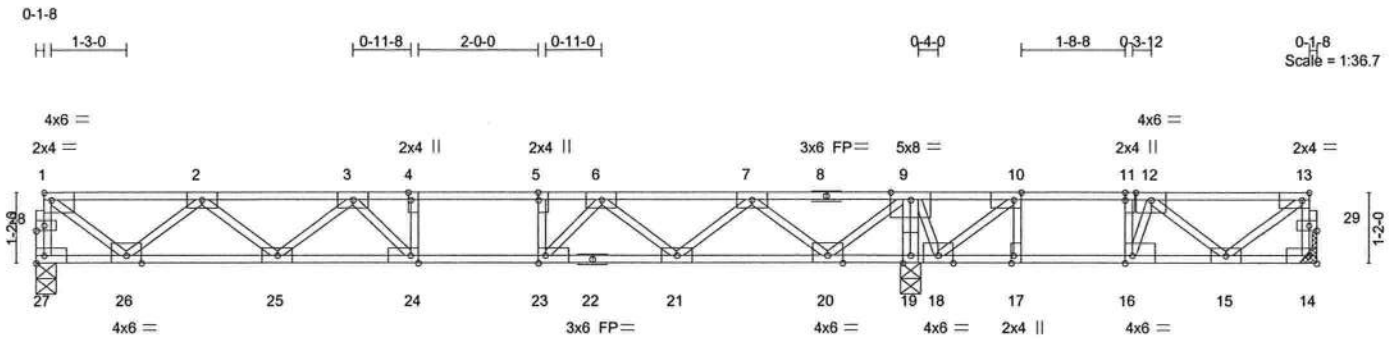
1) Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-14=-318(F=-120)
2) 1st unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-10=-318(F=-120), 10-14=-167(F=-120)
3) 2nd unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-10=-167(F=-120), 10-14=-319(F=-120)
4) 1st chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-5=-318(F=-120), 5-10=-167(F=-120), 10-14=-390(F=-192)
5) 2nd chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-4=-167(F=-120), 4-14=-319(F=-120)
6) 3rd chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-12=-318(F=-120), 12-14=-167(F=-120)
7) 4th chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 15-29=-10, 1-10=-318(F=-120), 10-11=-167(F=-120), 11-14=-390(F=-192)

Julius Lee
Truss Design Engineer
Florida PE No. 34869
1100 Coastal Bay Blvd
Boynton Beach, FL 33435

January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F01A	FLOOR	3	1	J1927005
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:11 2008 Page 1



Simpson THA422 into Beam by others.

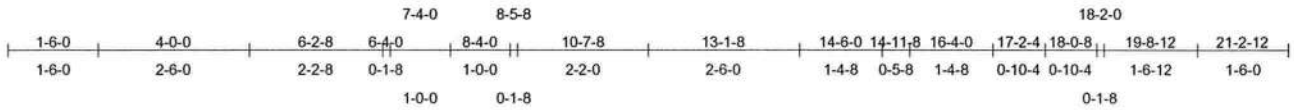


Plate Offsets (X,Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,0-0-0], [10:0-1-8,Edge], [11:0-1-8,0-0-0], [13:0-1-8,Edge], [16:0-1-8 ,Edge], [17:0-1-8,Edge], [23:0-1-8,Edge], [24:0-1-8,Edge], [28:0-1-8,0-1-0], [29:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.63	Vert(LL)	-0.13	24-25	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.68	Vert(TL)	-0.20	24-25	>854	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.03	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 108 lb	

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

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

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 27=726/0-4-0, 14=230/Mechanical, 19=1339/0-4-0
Max Uplift 14=-35(load case 2)
Max Grav 27=732(load case 7), 14=328(load case 3), 19=1339(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 27-28=-726/0, 1-28=-724/0, 14-29=-329/28, 13-29=-329/28, 1-2=-828/0, 2-3=-1929/0, 3-4=-2323/0, 4-5=-2323/0, 5-6=-2323/0, 6-7=-1582/0, 7-8=-251/0, 8-9=-251/0, 9-10=0/739, 10-11=-421/362, 11-12=-421/362, 12-13=-306/61
BOT CHORD 26-27=0/43, 25-26=0/1555, 24-25=0/2255, 23-24=0/2323, 22-23=0/2060, 21-22=0/2060, 20-21=0/1092, 19-20=-836/0, 18-19=-858/0, 17-18=-362/421, 16-17=-362/421, 15-16=-210/519, 14-15=-2/20
WEBS 4-24=-202/18, 5-23=-319/0, 10-17=0/211, 11-16=0/433, 9-19=-1200/0, 1-26=0/1001, 2-26=-947/0, 2-25=0/487, 3-25=-424/0, 3-24=-111/353, 9-20=0/1175, 7-20=-1102/0, 7-21=0/660, 6-21=-650/0, 6-23=0/580, 10-18=-840/0, 9-18=0/357, 13-15=-76/366, 12-15=-277/194, 12-16=-615/0

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JOINT STRESS INDEX
1 = 0.51, 2 = 0.45, 3 = 0.53, 4 = 0.47, 5 = 0.47, 6 = 0.66, 7 = 0.61, 8 = 0.13, 9 = 0.84, 10 = 0.64, 11 = 0.55, 12 = 0.47, 13 = 0.64, 14 = 0.64, 15 = 0.45, 16 = 0.47, 17 = 0.47, 18 = 0.45, 19 = 0.50, 20 = 0.72, 21 = 0.61, 22 = 0.65, 23 = 0.66, 24 = 0.64, 25 = 0.45, 26 = 0.62, 27 = 0.64, 28 = 0.00, 28 = 0.47, 29 = 0.00 and 29 = 0.47

Continued on page 2

January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927005
L265361F	F01A	FLOOR	3	1	Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 22 and 8.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 14.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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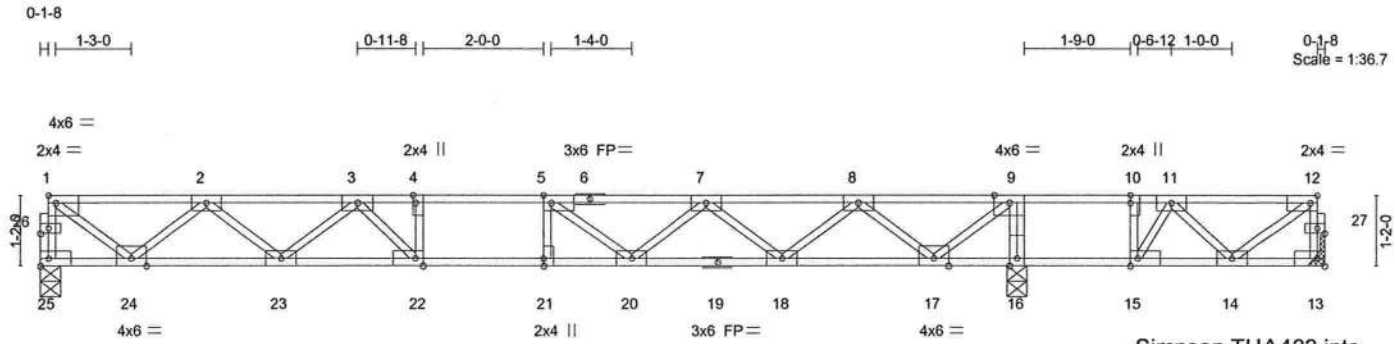
January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR J1927006
L265361F	F02	FLOOR	2	1	Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:12 2008 Page 1



Simpson THA422 into Beam by others.

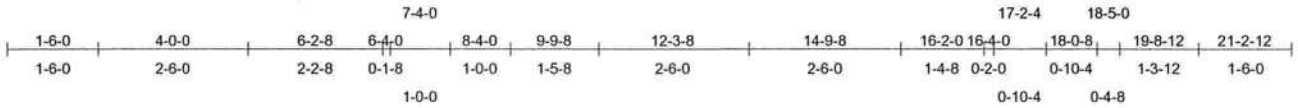


Plate Offsets (X,Y): [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,0-0-0], [12:0-1-8,Edge], [15:0-1-8,Edge], [21:0-1-8,0-0-0], [22:0-1-8,Edge], [26:0-1-8,0-1-0], [27:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.85	Vert(LL)	-0.20	21	>957	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.95	Vert(TL)	-0.31	21	>615	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.05	16	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 106 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

Recommended hanger connection based on manufacturer tested capacities and nail calculations. Conditions may exist that require different connections than indicated. Refer to manufacturer publication for additional information. Hanger connection to be reviewed and approved by the Architect/Engineer of Record.

REACTIONS (lb/size) 25=836/0-4-0, 13=134/Mechanical, 16=1325/0-4-0
Max Uplift 13=-124(load case 2)
Max Grav 25=836(load case 1), 13=297(load case 3), 16=1325(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 25-26=-833/0, 1-26=-831/0, 13-27=-303/110, 12-27=-303/110, 1-2=-969/0, 2-3=-2297/0, 3-4=-3047/0, 4-5=-3047/0, 5-6=-2835/0, 6-7=-2835/0, 7-8=-1989/0, 8-9=-494/0, 9-10=-288/702, 10-11=-288/702, 11-12=-284/162
BOT CHORD 24-25=0/50, 23-24=0/1813, 22-23=0/2776, 21-22=0/3047, 20-21=0/3047, 19-20=0/2588, 18-19=0/2588, 17-18=0/1342, 16-17=-702/288, 15-16=-702/288, 14-15=-389/416, 13-14=-7/18
WEBS 4-22=-310/0, 5-21=-139/80, 10-15=0/367, 9-16=-1057/0, 1-24=0/1174, 2-24=-1098/0, 2-23=0/629, 3-23=-624/0, 3-22=0/635, 9-17=0/1111, 8-17=-1184/0, 8-18=0/860, 7-18=-802/0, 7-20=0/381, 5-20=-439/12, 12-14=-198/340, 11-14=-189/328, 11-15=-682/0

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JOINT STRESS INDEX
1 = 0.60, 2 = 0.58, 3 = 0.71, 4 = 0.47, 5 = 0.64, 6 = 0.36, 7 = 0.45, 8 = 0.79, 9 = 0.68, 10 = 0.47, 11 = 0.71, 12 = 0.64, 13 = 0.64, 14 = 0.52, 15 = 0.71, 16 = 0.44, 17 = 0.68, 18 = 0.79, 19 = 0.82, 20 = 0.45, 21 = 0.47, 22 = 0.70, 23 = 0.58, 24 = 0.72, 25 = 0.64, 26 = 0.00, 26 = 0.47, 27 = 0.00 and 27 = 0.47

Continued on page 2

January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927006
L265361F	F02	FLOOR	2	1	Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 19 and 6.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 13.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F03	FLOOR	5	1	J1927007
					Job Reference (optional)

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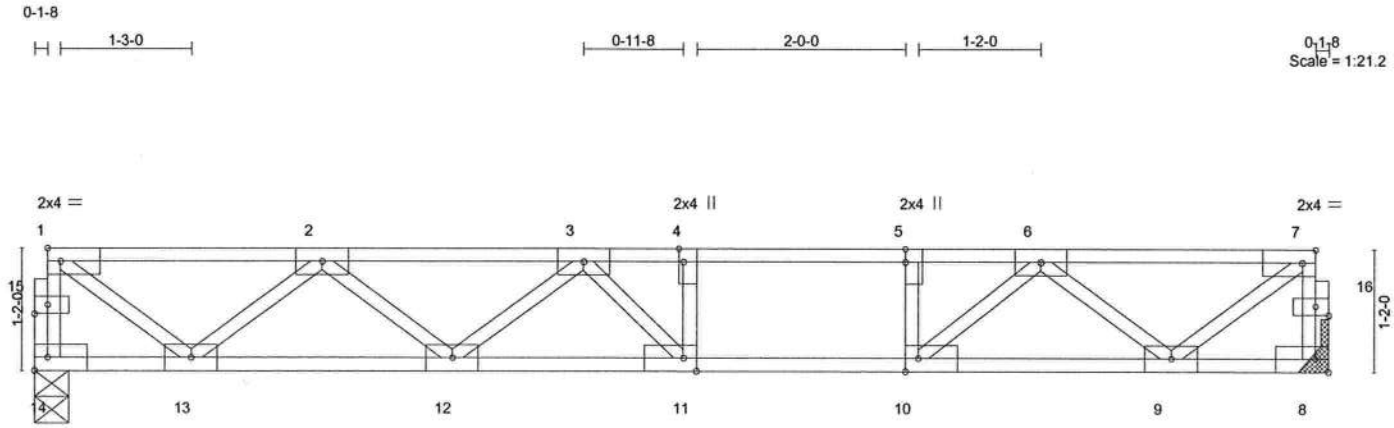

Simpson THA422

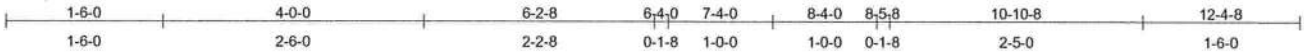

Plate Offsets (X,Y): [4:0-1-8,Edge], [5:0-1-8,0-0-0], [7:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [15:0-1-8,0-1-0], [16:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.65	Vert(LL)	-0.14	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.74	Vert(TL)	-0.21	11-12	>710	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 62 lb	

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

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

REACTIONS (lb/size) 14=661/0-4-0, 8=661/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 14-15=-652/0, 1-15=-651/0, 8-16=-643/0, 7-16=-642/0, 1-2=-731/0, 2-3=-1676/0, 3-4=-1828/0, 4-5=-1828/0, 5-6=-1828/0, 6-7=-707/0
BOT CHORD 13-14=0/39, 12-13=0/1377, 11-12=0/1899, 10-11=0/1828, 9-10=0/1368, 8-9=0/39
WEBS 4-11=-141/74, 5-10=-336/0, 1-13=0/883, 2-13=-842/0, 2-12=0/389, 3-12=-290/0, 3-11=-233/221, 7-9=0/853, 6-9=-860/0, 6-10=0/727

JOINT STRESS INDEX
1 = 0.80, 2 = 0.39, 3 = 0.25, 4 = 0.09, 5 = 0.21, 6 = 0.70, 7 = 0.77, 8 = 0.49, 9 = 0.79, 10 = 0.69, 11 = 0.24, 12 = 0.36, 13 = 0.82, 14 = 0.50, 15 = 0.00, 15 = 0.00, 16 = 0.00 and 16 = 0.00

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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LOAD CASE(S) Standard

January 28,2008

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January 28,2008

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F03KW	GABLE	1	1	J1927008
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:14 2008 Page 1

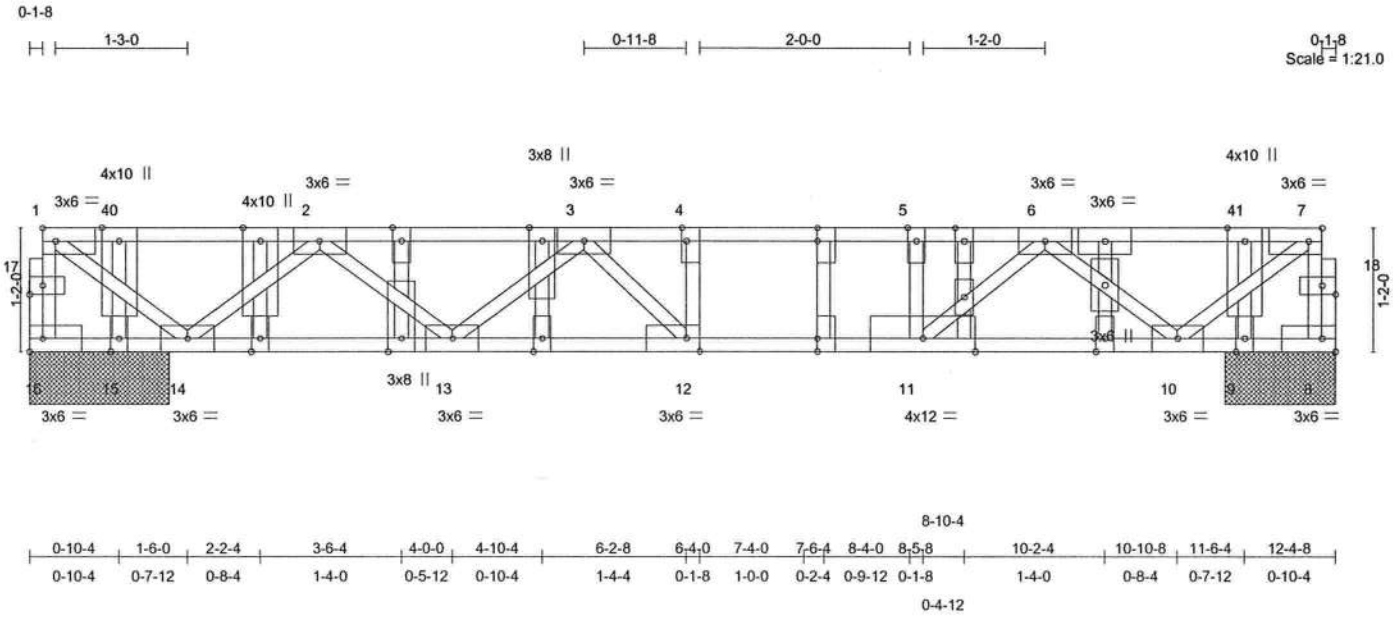

Plate Offsets (X,Y): [4:0-1-8,Edge], [7:0-1-8,Edge], [12:0-1-8,Edge], [17:0-1-8,0-1-0], [18:0-1-8,0-1-0], [30:0-1-8,0-0-0], [31:0-1-8,0-0-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.56	Vert(LL)	-0.11	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.69	Vert(TL)	-0.17	12-13	>741	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 72 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 16=208/1-4-0, 8=425/1-0-8, 15=467/1-4-0, 9=221/1-0-8
Max Grav 16=208(load case 1), 8=425(load case 1), 15=480(load case 4), 9=221(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 16-17=-387/0, 1-17=-386/0, 8-18=-497/0, 7-18=-497/0, 1-40=-381/0, 2-40=-381/0, 2-3=-1415/0, 3-4=-1606/0, 4-5=-1606/0, 5-6=-1606/0, 6-41=-516/0, 7-41=-516/0

BOT CHORD 15-16=0/23, 14-15=0/23, 13-14=0/1074, 12-13=0/1650, 11-12=0/1606, 10-11=0/1169, 9-10=0/30, 8-9=0/30

WEBS 4-12=-145/36, 5-11=-298/0, 1-14=0/457, 2-14=-901/0, 2-13=0/450, 3-13=-313/0, 3-12=-173/215, 7-10=0/621, 6-10=-850/0, 6-11=0/658

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JOINT STRESS INDEX

1 = 0.41, 2 = 0.42, 3 = 0.24, 4 = 0.09, 5 = 0.19, 6 = 0.64, 7 = 0.56, 8 = 0.38, 9 = 0.00, 10 = 0.57, 11 = 0.35, 12 = 0.24, 13 = 0.42, 14 = 0.42, 15 = 0.00, 16 = 0.30, 17 = 0.00, 17 = 0.00, 18 = 0.00, 18 = 0.00, 19 = 0.00, 19 = 0.00, 20 = 0.00, 21 = 0.00, 22 = 0.00, 22 = 0.00, 23 = 0.00, 24 = 0.00, 25 = 0.00, 25 = 0.00, 26 = 0.00, 27 = 0.00, 28 = 0.00, 28 = 0.00, 29 = 0.00, 30 = 0.00, 31 = 0.00, 32 = 0.00, 33 = 0.00, 34 = 0.00, 34 = 0.00, 35 = 0.00, 36 = 0.00, 37 = 0.00, 37 = 0.00, 38 = 0.00, 39 = 0.00 and 39 = 0.00

January 28,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927008
L265361F	F03KW	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 2x4 MT20 unless otherwise indicated.
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F04	FLOOR	3	1	J1927009
					Job Reference (optional)

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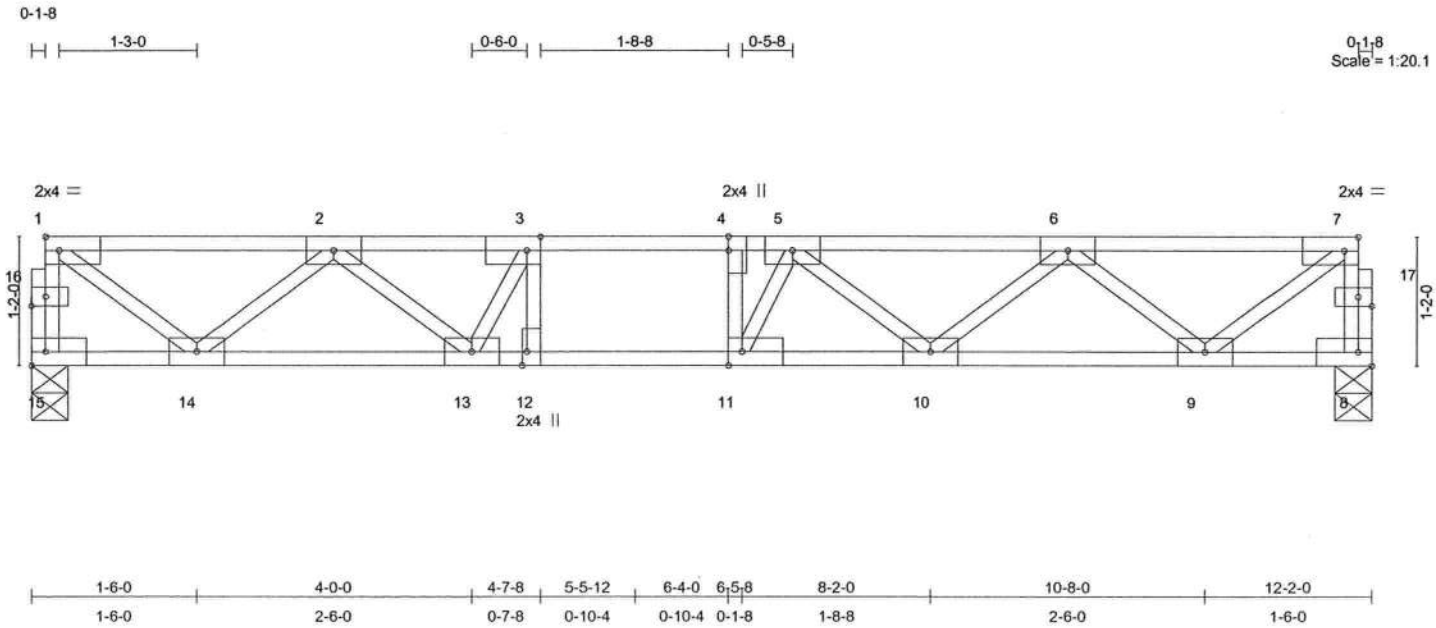

Plate Offsets (X,Y): [3:0-1-8,Edge], [4:0-1-8,0-0-0], [7:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:0-1-8,0-1-0], [17:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.34	Vert(LL)	-0.08	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.64	Vert(TL)	-0.13	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

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

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

REACTIONS (lb/size) 15=649/0-4-0, 8=649/0-4-0

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 15-16=-645/0, 1-16=-644/0, 8-17=-643/0, 7-17=-642/0, 1-2=-714/0, 2-3=-1651/0, 3-4=-1823/0, 4-5=-1823/0, 5-6=-1623/0, 6-7=-719/0
BOT CHORD 14-15=0/39, 13-14=0/1329, 12-13=0/1823, 11-12=0/1823, 10-11=0/1846, 9-10=0/1347, 8-9=0/39
WEBS 3-12=-51/210, 4-11=-193/115, 1-14=0/862, 2-14=-800/0, 2-13=0/476, 3-13=-481/0, 7-9=0/869, 6-9=-817/0, 6-10=0/359, 5-10=-296/0, 5-11=-227/268

JOINT STRESS INDEX
1 = 0.80, 2 = 0.45, 3 = 0.41, 4 = 0.15, 5 = 0.48, 6 = 0.39, 7 = 0.81, 8 = 0.51, 9 = 0.83, 10 = 0.34, 11 = 0.47, 12 = 0.27, 13 = 0.45, 14 = 0.82, 15 = 0.51, 16 = 0.00, 16 = 0.00, 17 = 0.00 and 17 = 0.00

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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LOAD CASE(S) Standard

January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F04KW	GABLE	1	1	J1927010
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Jan 28 13:33:40 2008 Page 1

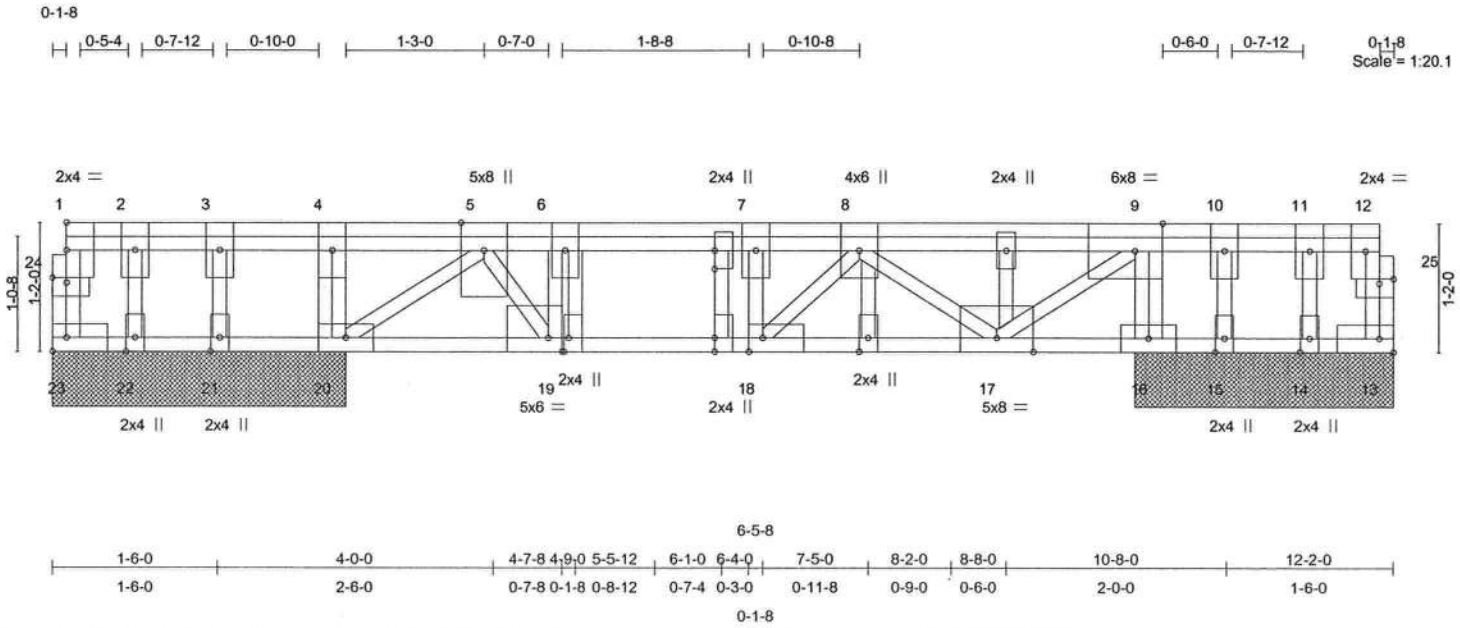

Plate Offsets (X,Y): [9:0-3-0,Edge], [18:0-1-8,Edge], [19:0-1-8,Edge], [24:0-1-8,0-0-8], [25:0-1-8,0-0-8], [27:0-1-8,0-0-0], [28:0-2-0,0-0-0], [29:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.71	Vert(LL)	-0.05	17-18	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.76	Vert(TL)	-0.12	17-18	>763	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(TL)	0.02	13	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 84 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 23=70/2-8-0, 13=38/2-4-0, 20=1427/2-8-0, 16=1787/2-4-0, 21=246/2-8-0, 15=-258/2-4-0, 22=245/2-8-0, 14=361/2-4-0
Max Uplift 15=-262(load case 5)
Max Grav 23=76(load case 5), 13=51(load case 4), 20=1427(load case 1), 16=1788(load case 3), 21=304(load case 5), 22=260(load case 4), 14=364(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	23-24=-71/0, 1-24=-71/0, 13-25=-51/0, 12-25=-51/0, 1-2=-5/0, 2-3=-5/0, 3-4=-5/0, 4-5=-5/0, 5-6=-2012/0, 6-7=-2012/0, 7-8=-2012/0, 8-9=-1085/0, 9-10=-3/0, 10-11=-3/0, 11-12=-3/0
BOT CHORD	22-23=0/5, 21-22=0/5, 20-21=0/5, 19-20=0/1327, 18-19=0/2012, 17-18=0/2047, 16-17=0/3, 15-16=0/3, 14-15=0/3, 13-14=0/3
WEBS	6-19=-994/0, 7-18=-197/38, 4-20=-512/0, 9-16=-1682/0, 3-21=-269/0, 10-15=-12/181, 5-19=0/1328, 2-22=-251/0, 11-14=-335/0, 5-20=-1627/0, 9-17=0/1329, 8-17=-1221/0, 8-18=-150/252

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JOINT STRESS INDEX

1 = 0.03, 2 = 0.11, 3 = 0.12, 4 = 0.11, 5 = 0.70, 6 = 0.43, 7 = 0.09, 8 = 0.67, 8 = 0.00, 9 = 0.53, 10 = 0.11, 11 = 0.14, 12 = 0.02, 13 = 0.04, 14 = 0.22, 15 = 0.24, 16 = 0.65, 17 = 0.61, 17 = 0.00, 18 = 0.27, 19 = 0.70, 20 = 0.72, 21 = 0.17, 22 = 0.16, 23 = 0.06, 24 = 0.00, 24 = 0.00, 25 = 0.00, 25 = 0.00, 26 = 0.00, 26 = 0.00, 27 = 0.00, 28 = 0.00, 28 = 0.00, 29 = 0.00, 30 = 0.00, 30 = 0.00 and 31 = 0.00

January 28,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927010
L265361F	F04KW	GABLE	1	1	Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Gable studs spaced at 1-4-0 oc.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 15.

Loading has been calculated by the truss manufacturer. It is the responsibility of the Architect/Engineer of Record to verify and approve the loading.

LOAD CASE(S)

1) Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-23=-10, 1-12=-322
2) 1st unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-23=-10, 1-4=-322, 4-12=-168
3) 2nd unbalanced Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-23=-10, 1-4=-168, 4-12=-322
4) 1st chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-23=-10, 1-7=-322, 7-9=-168, 9-12=-322
5) 2nd chase Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 13-23=-10, 1-4=-322, 4-6=-168, 6-12=-322

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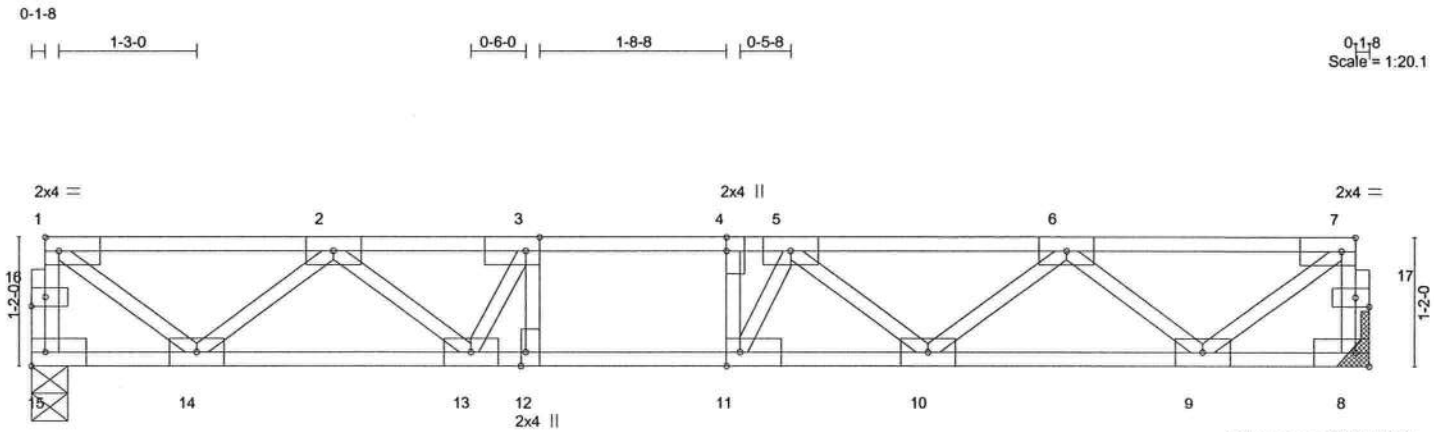
Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F05	FLOOR	2	1	J1927011
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Jan 15 15:33:50 2008 Page 1



Simpson THA422

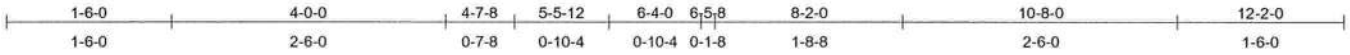


Plate Offsets (X,Y): [3:0-1-8,Edge], [4:0-1-8,0-0-0], [7:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:0-1-8,0-1-0], [17:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.34	Vert(LL)	-0.08	10-11	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.64	Vert(TL)	-0.13	10-11	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.02	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 63 lb	

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

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

REACTIONS (lb/size) 15=649/0-4-0, 8=649/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 15-16=-645/0, 1-16=-644/0, 8-17=-643/0, 7-17=-642/0, 1-2=-714/0, 2-3=-1651/0, 3-4=-1823/0, 4-5=-1823/0, 5-6=-1623/0, 6-7=-719/0
BOT CHORD 14-15=0/39, 13-14=0/1329, 12-13=0/1823, 11-12=0/1823, 10-11=0/1846, 9-10=0/1347, 8-9=0/39
WEBS 3-12=-51/210, 4-11=-193/115, 1-14=0/862, 2-14=-800/0, 2-13=0/476, 3-13=-481/0, 7-9=0/869, 6-9=-817/0, 6-10=0/359, 5-10=-296/0, 5-11=-227/268

JOINT STRESS INDEX
1 = 0.80, 2 = 0.45, 3 = 0.41, 4 = 0.15, 5 = 0.48, 6 = 0.39, 7 = 0.81, 8 = 0.51, 9 = 0.83, 10 = 0.34, 11 = 0.47, 12 = 0.27, 13 = 0.45, 14 = 0.82, 15 = 0.51, 16 = 0.00, 16 = 0.00, 17 = 0.00 and 17 = 0.00

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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LOAD CASE(S) Standard

January 28,2008

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January 28,2008

⚠ Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F07	FLOOR	1	1	J1927013
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:19 2008 Page 1

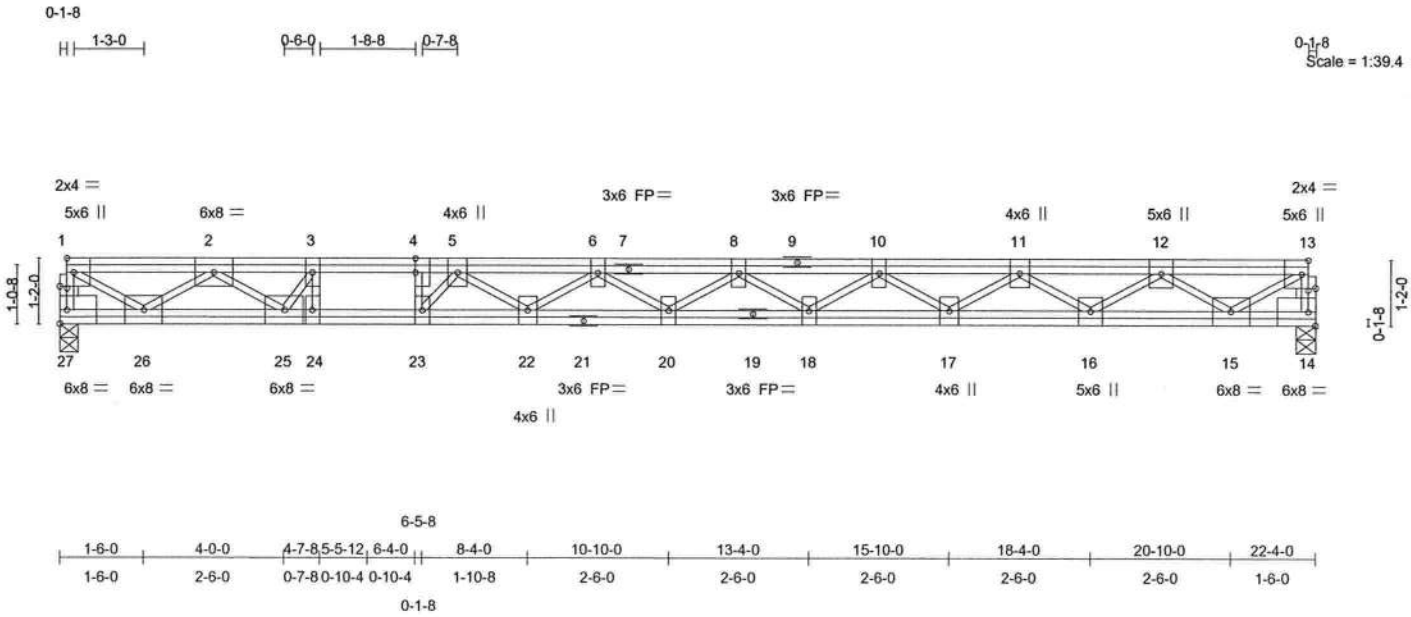

Plate Offsets (X,Y): [1:0-1-8,0-0-8], [4:0-3-0,0-0-0], [13:0-1-8,0-0-8], [13:0-3-0,Edge]

LOADING (psf)		SPACING	1-6-8	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.49	Vert(LL)	-0.36	20	>733	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.78	Vert(TL)	-0.57	20	>469	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(TL)	0.06	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 172 lb	

LUMBER
TOP CHORD 4 X 2 SYP No.1D
BOT CHORD 4 X 2 SYP No.1D
WEBS 4 X 2 SYP No.3

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

REACTIONS (lb/size) 27=936/0-4-0, 14=936/0-4-0

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-27=-934/0, 13-14=-928/0, 1-2=-1265/0, 2-3=-3355/0, 3-4=-4101/0, 4-5=-4101/0, 5-6=-5267/0, 6-7=-5565/0, 7-8=-5565/0, 8-9=-5372/0, 9-10=-5372/0, 10-11=-4581/0, 11-12=-3230/0, 12-13=-1282/0
BOT CHORD 26-27=-0/0, 25-26=0/2346, 24-25=0/4101, 23-24=0/4101, 22-23=0/4777, 21-22=0/5541, 20-21=0/5541, 19-20=0/5601, 18-19=0/5601, 17-18=0/5108, 16-17=0/4030, 15-16=0/2401, 14-15=0/0
WEBS 3-24=0/771, 4-23=0/589, 1-26=0/1508, 2-26=-1342/0, 2-25=0/1250, 3-25=-1460/0, 13-15=0/1529, 12-15=-1389/0, 12-16=0/1028, 11-16=-993/0, 11-17=0/682, 10-17=-655/0, 10-18=0/327, 8-18=-284/0, 8-20=-92/92, 6-20=-72/75, 6-22=-382/11, 5-22=0/665, 5-23=-1198/0

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JOINT STRESS INDEX
1 = 0.90, 1 = 0.47, 2 = 0.58, 3 = 0.68, 4 = 0.35, 5 = 0.77, 6 = 0.76, 7 = 0.35, 8 = 0.76, 9 = 0.34, 10 = 0.76, 11 = 0.79, 12 = 0.90 , 13 = 0.91, 13 = 0.47, 14 = 0.35, 15 = 0.71, 16 = 0.90, 17 = 0.79, 18 = 0.76, 19 = 0.89, 20 = 0.76, 21 = 0.88, 22 = 0.77, 23 = 0.66, 24 = 0.46, 25 = 0.58, 26 = 0.70 and 27 = 0.35

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927013
L265361F	F07	FLOOR	1	1	
					Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 19, 21, 7 and 9.
4) Required 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F08	FLOOR	1	1	J1927014
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:20 2008 Page 1

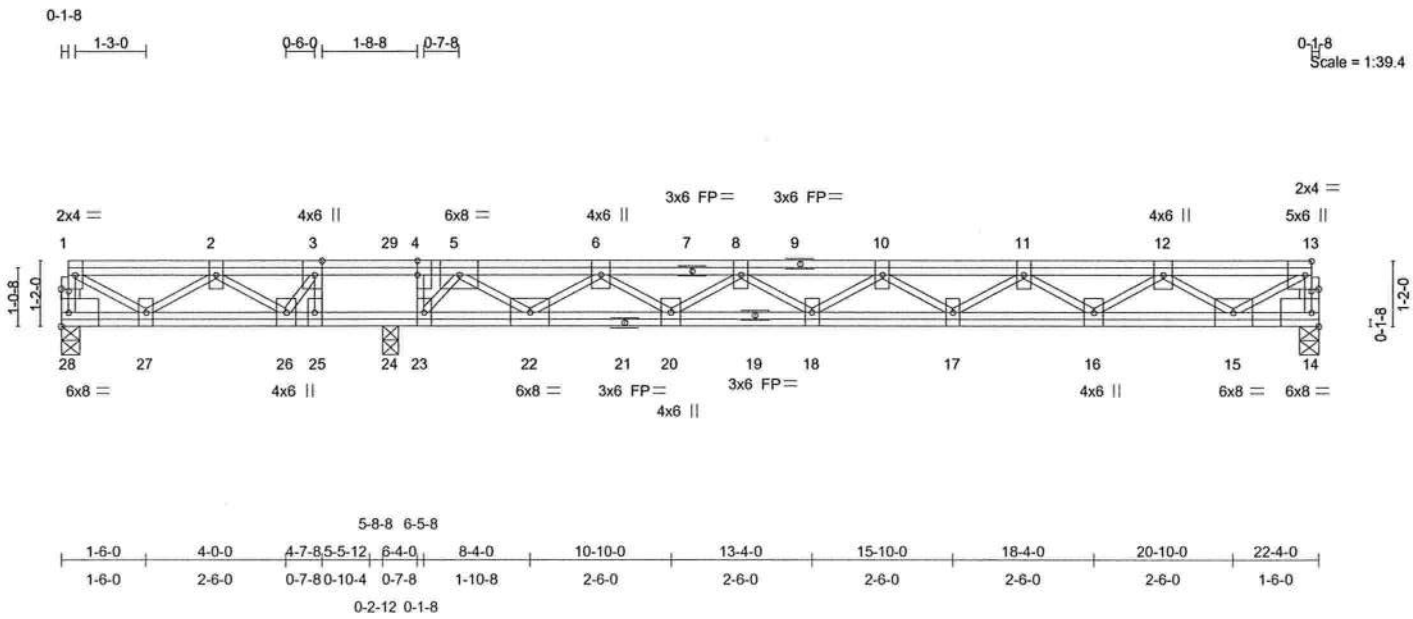

Plate Offsets (X,Y): [1:0-1-8,0-0-8], [3:0-3-0,Edge], [4:0-3-0,0-0-0], [13:0-3-0,Edge], [13:0-1-8,0-0-8]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.25	Vert(LL)	-0.11	18	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.80	Vert(TL)	-0.17	17-18	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(TL)	0.02	14	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 172 lb	

LUMBER
TOP CHORD 4 X 2 SYP No.1D
BOT CHORD 4 X 2 SYP No.1D
WEBS 4 X 2 SYP No.3

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

REACTIONS (lb/size) 28=15/0-4-0, 14=794/0-4-0, 24=1619/0-3-8
Max Uplift 28=-253(load case 3)
Max Grav 28=272(load case 2), 14=794(load case 1), 24=1619(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-28=-264/259, 13-14=-786/0, 1-2=-243/425, 2-3=-225/1284, 3-29=0/1719, 4-29=0/1719, 4-5=0/1719, 5-6=-482/0, 6-7=-2046/0, 7-8=-2046/0, 8-9=-2925/0, 9-10=-2925/0, 10-11=-3039/0, 11-12=-2424/0, 12-13=-1030/0
BOT CHORD 27-28=-0/0, 26-27=-821/439, 25-26=-1719/0, 24-25=-1719/0, 23-24=-1719/0, 22-23=-913/37, 21-22=0/1440, 20-21=0/1440, 19-20=0/2653, 18-19=0/2653, 17-18=0/3154, 16-17=0/2894, 15-16=0/1919, 14-15=0/0
WEBS 3-25=-1005/0, 4-23=-283/0, 1-27=-507/289, 2-27=-245/491, 2-26=-671/0, 3-26=0/1071, 13-15=0/1229, 12-15=-1103/0, 12-16=0/626, 11-16=-582/0, 11-17=0/180, 10-17=-143/0, 10-18=-307/0, 8-18=0/360, 8-20=-778/0, 6-20=0/772, 6-22=-1203/0, 5-22=0/1481, 5-23=-1344/0

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JOINT STRESS INDEX
1 = 0.76, 1 = 0.47, 2 = 0.83, 3 = 0.66, 4 = 0.32, 5 = 0.69, 6 = 0.89, 7 = 0.13, 8 = 0.76, 9 = 0.18, 10 = 0.76, 11 = 0.76, 12 = 0.72 , 13 = 0.73, 13 = 0.47, 14 = 0.32, 15 = 0.57, 16 = 0.72, 17 = 0.76, 18 = 0.76, 19 = 0.42, 20 = 0.89, 21 = 0.23, 22 = 0.69, 23 = 0.74, 25 = 0.42, 26 = 0.77, 27 = 0.83 and 28 = 0.32

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927014
L265361F	F08	FLOOR	1	1	
					Job Reference (optional)

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) The following joint(s) require plate inspection per the Tooth Count Method when this truss is chosen for quality assurance inspection: 19, 21, 7 and 9.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 253 lb uplift at joint 28.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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January 28,2008

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F09	FLOOR	3	1	J1927015
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Feb 15 2006 MiTek Industries, Inc. Tue Jan 15 14:31:21 2008 Page 1

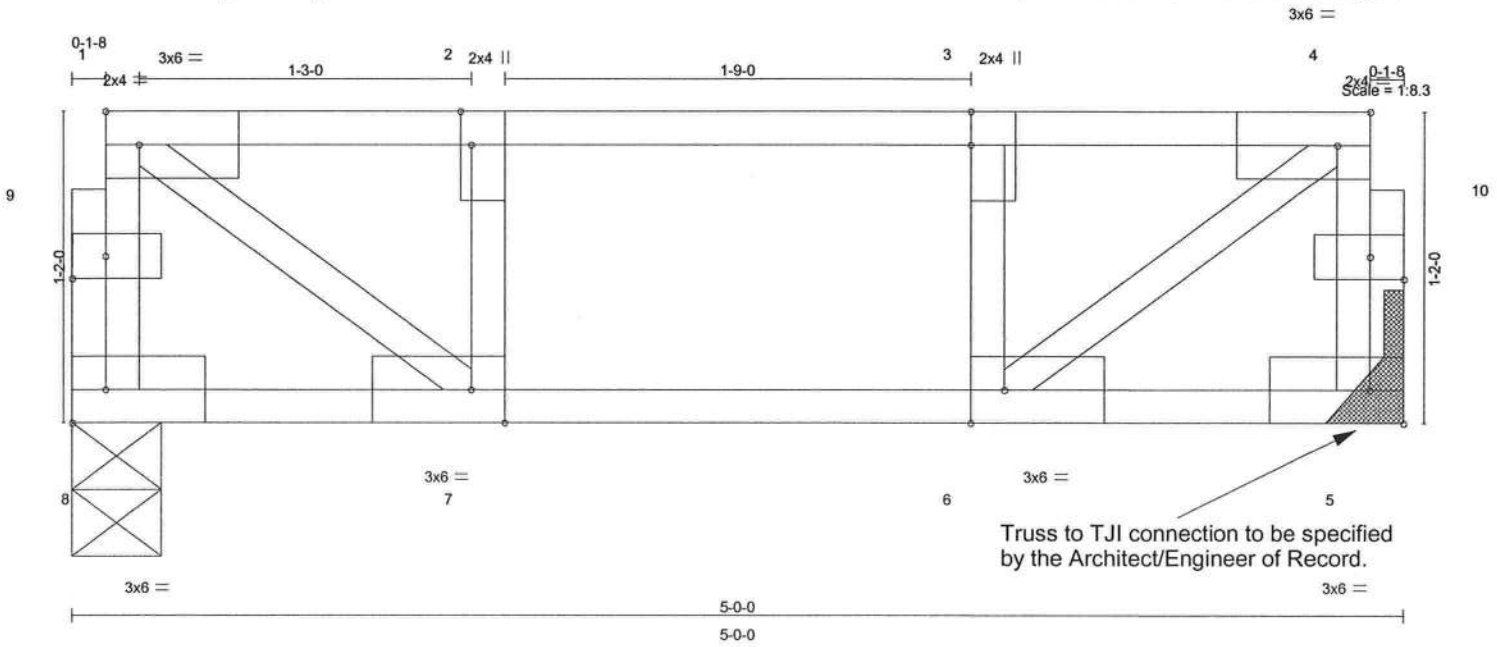

Plate Offsets (X,Y): [2:0-1-8,Edge], [3:0-1-8,0-0-0], [4:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,0-1-0], [10:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.24	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.11	Vert(TL)	-0.01	7	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

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

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

REACTIONS (lb/size) 8=255/0-4-0, 5=255/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 8-9=-249/0, 1-9=-249/0, 5-10=-249/0, 4-10=-249/0, 1-2=-277/0, 2-3=-277/0, 3-4=-277/0
BOT CHORD 7-8=0/15, 6-7=0/277, 5-6=0/15
WEBS 4-6=0/329, 1-7=0/329, 2-7=-181/0, 3-6=-181/0

JOINT STRESS INDEX
1 = 0.30, 2 = 0.11, 3 = 0.11, 4 = 0.30, 5 = 0.19, 6 = 0.30, 7 = 0.30, 8 = 0.19, 9 = 0.00, 9 = 0.00, 10 = 0.00 and 10 = 0.00

NOTES
1) Unbalanced floor live loads have been considered for this design.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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January 28,2008

Warning - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 BEFORE USE

This design is based only upon the parameters shown for an individual building component that is installed and loaded vertically and fabricated with MiTek connectors. Applicability of design parameters and proper incorporation of component into the overall building structure, including all temporary and permanent bracing, is the responsibility of building designer and / or contractor per ANSI / TPI 1 as referenced by the building code. For general guidance regarding storage, delivery, erection and bracing, consult BCSI-1 or HIB-91 Handling Installing and Bracing Recommendation available from the Wood Truss Council of America, 1 WTCA Center, 6300 Enterprise Lane, Madison, WI 53719 or the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

Builders FirstSource

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F09A	FLOOR	1	1	J1927016
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 — 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Jan 15 15:35:39 2008 Page 1

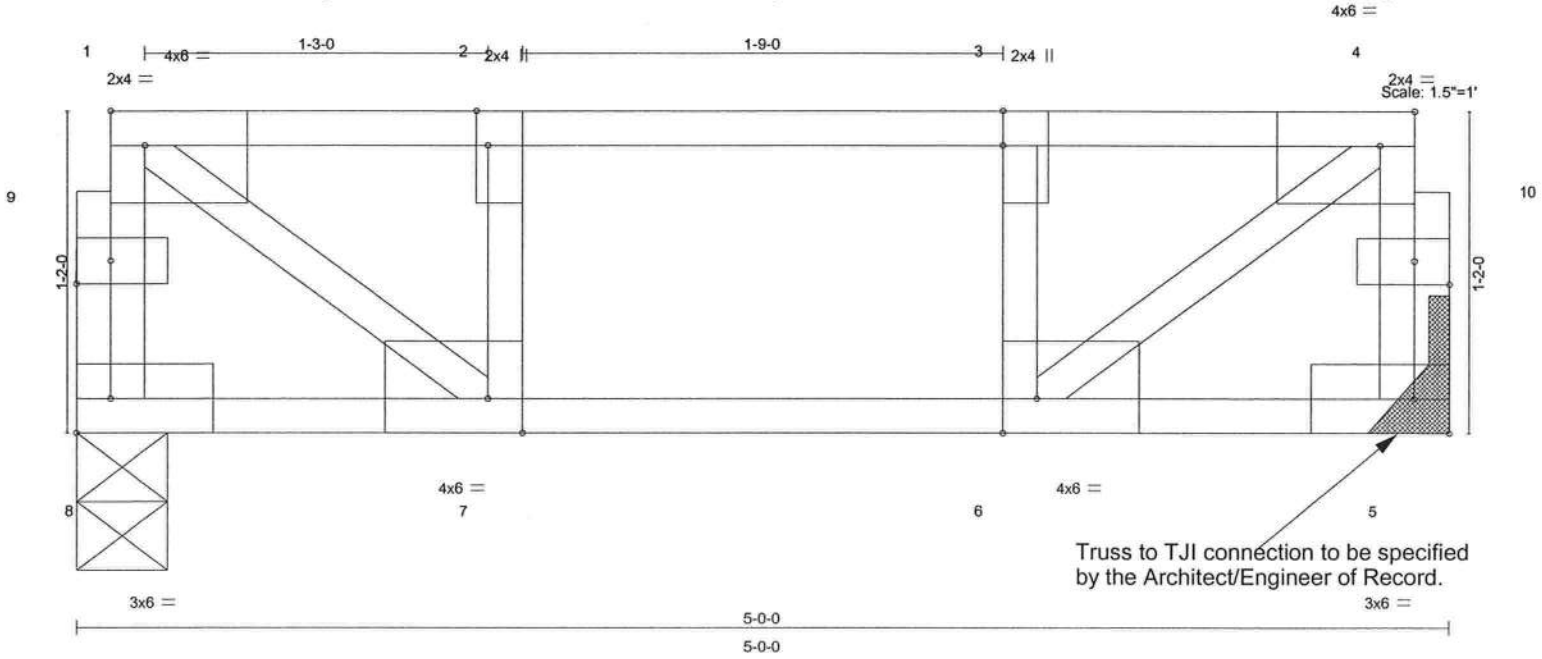

Plate Offsets (X,Y): [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,0-0-0], [4:0-1-8,Edge], [6:0-1-8,Edge], [7:0-1-8,Edge], [9:0-1-8,0-1-0], [10:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.56	Vert(LL)	-0.01	7	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.29	Vert(TL)	-0.02	7	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(TL)	0.00	5	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 27 lb	

LUMBER

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

BRACING

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

REACTIONS (lb/size) 8=883/0-4-0, 5=883/Mechanical

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	8-9=-875/0, 1-9=-874/0, 5-10=-875/0, 4-10=-874/0, 1-2=-961/0, 2-3=-961/0, 3-4=-961/0
BOT CHORD	7-8=0/52, 6-7=0/961, 5-6=0/52
WEBS	4-6=0/1140, 1-7=0/1140, 2-7=-674/0, 3-6=-674/0

JOINT STRESS INDEX

1 = 0.60, 2 = 0.44, 3 = 0.44, 4 = 0.60, 5 = 0.69, 6 = 0.60, 7 = 0.60, 8 = 0.69, 9 = 0.00, 9 = 0.00, 10 = 0.00 and 10 = 0.00

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Girder carries tie-in span(s): 12-2-0 from 0-0-0 to 5-0-0
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
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) Floor: Lumber Increase=1.00, Plate Increase=1.00

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January 28,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F09A	FLOOR	1	1	J1927016
					Job Reference (optional)

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 5-8=-10, 1-4=-372(F=-272)

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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F10	FLOOR	2	1	J1927017
					Job Reference (optional)

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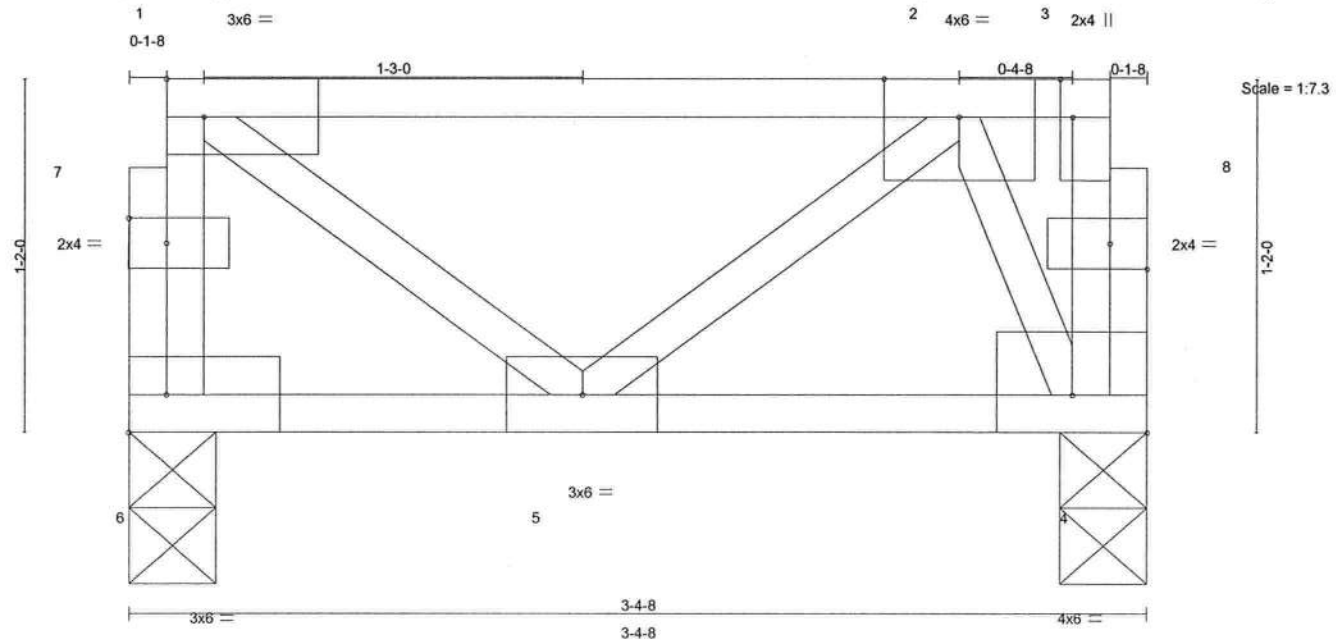

Plate Offsets (X,Y): [3:0-1-8,Edge], [4:Edge,0-1-8], [7:0-1-8,0-1-0], [8:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.33	Vert(LL)	-0.00	5	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.04	Vert(TL)	-0.00	5	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 21 lb	

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-4-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 6=166/0-3-8, 4=166/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 6-7=-161/0, 1-7=-160/0, 4-8=0/134, 3-8=0/134, 1-2=-84/0, 2-3=0/8
BOT CHORD 5-6=0/10, 4-5=0/132
WEBS 1-5=0/95, 2-5=-63/0, 2-4=-324/0

JOINT STRESS INDEX
1 = 0.12, 2 = 0.16, 3 = 0.17, 4 = 0.16, 5 = 0.09, 6 = 0.12, 7 = 0.00, 7 = 0.00, 8 = 0.00 and 8 = 0.00

NOTES
1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F11	FLOOR	1	1	J1927018
					Job Reference (optional)

Builders FirstSource, Lake City, Fl 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Tue Jan 15 15:36:30 2008 Page 1

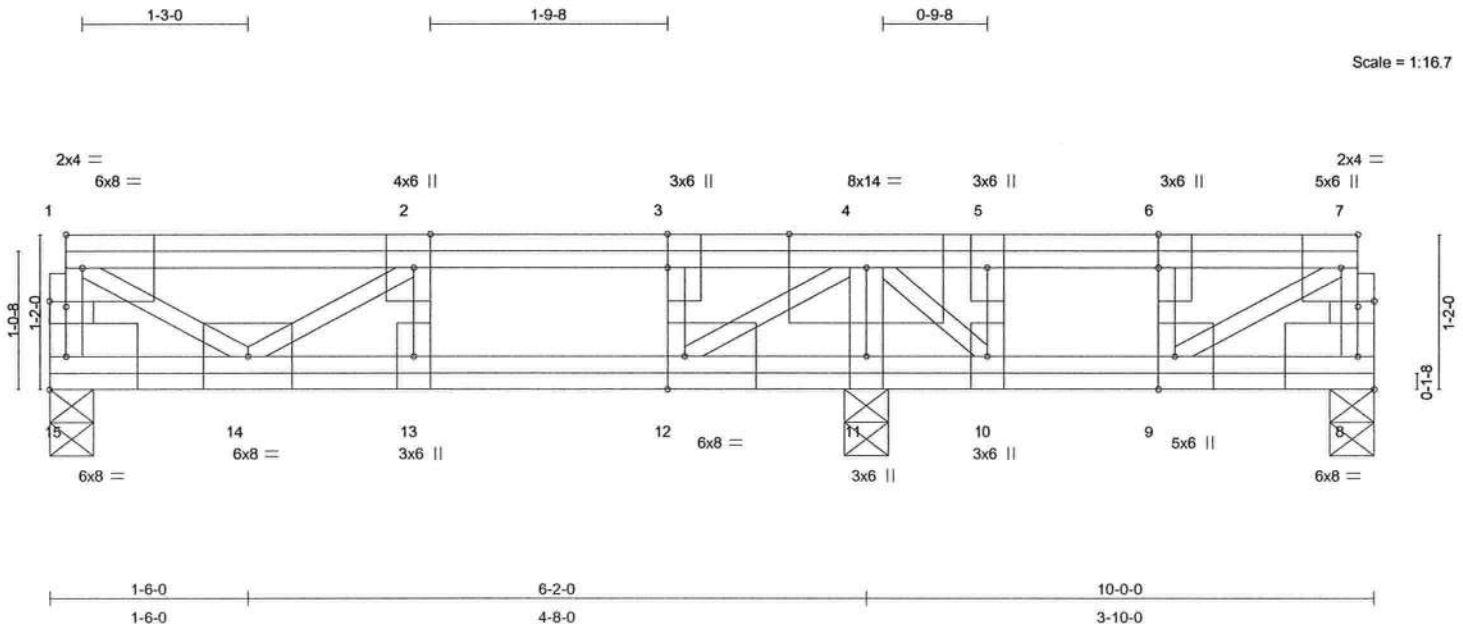

Plate Offsets (X,Y): [1:0-1-8,0-0-8], [2:0-3-0,Edge], [3:0-3-0,Edge], [6:0-3-0,0-0-0], [7:0-3-0,Edge], [7:0-1-8,0-0-8], [9:0-3-0,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.56	Vert(LL)	-0.05	13	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.50	Vert(TL)	-0.08	13	>965	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.68	Horz(TL)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 78 lb	

LUMBER

TOP CHORD	4 X 2 SYP No.1D
BOT CHORD	4 X 2 SYP No.1D
WEBS	4 X 2 SYP No.3

BRACING

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

REACTIONS (lb/size) 15=1285/0-4-0, 8=909/0-4-0, 11=1570/0-4-0
Max Grav 15=1288(load case 7), 8=920(load case 4), 11=1590(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD	1-15=-1300/0, 7-8=-924/0, 1-2=-1299/0, 2-3=-2280/0, 3-4=-2280/0, 4-5=-1127/0, 5-6=-1127/0, 6-7=-1129/0
BOT CHORD	14-15=-0/0, 13-14=0/2280, 12-13=0/2280, 11-12=0/882, 10-11=0/853, 9-10=0/1127, 8-9=0/0
WEBS	4-11=-1613/0, 1-14=0/1548, 4-12=0/1702, 2-14=-1200/0, 2-13=-253/0, 3-12=-693/0, 7-9=0/1327, 4-10=0/473, 5-10=-348/0, 6-9=-635/0

JOINT STRESS INDEX

1 = 0.52, 1 = 0.00, 2 = 0.54, 3 = 0.30, 4 = 0.57, 5 = 0.15, 6 = 0.28, 7 = 0.81, 7 = 0.00, 8 = 0.36, 9 = 0.81, 10 = 0.63, 11 = 0.69, 12 = 0.57, 13 = 0.11, 14 = 0.74 and 15 = 0.51

NOTES

1) Unbalanced floor live loads have been considered for this design.
2) Girder carries tie-in span(s): 12-4-8 from 0-0-0 to 10-0-0
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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January 28,2008

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927018
L265361F	F11	FLOOR	1	1	Job Reference (optional)

LOAD CASE(S) Standard

1) Floor: Lumber Increase=1.00, Plate Increase=1.00
   Uniform Loads (plf)
   Vert: 8-15=-10, 1-7=-376(F=-276)

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Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
L265361F	F12	FLOOR	1	1	J1927019
					Job Reference (optional)

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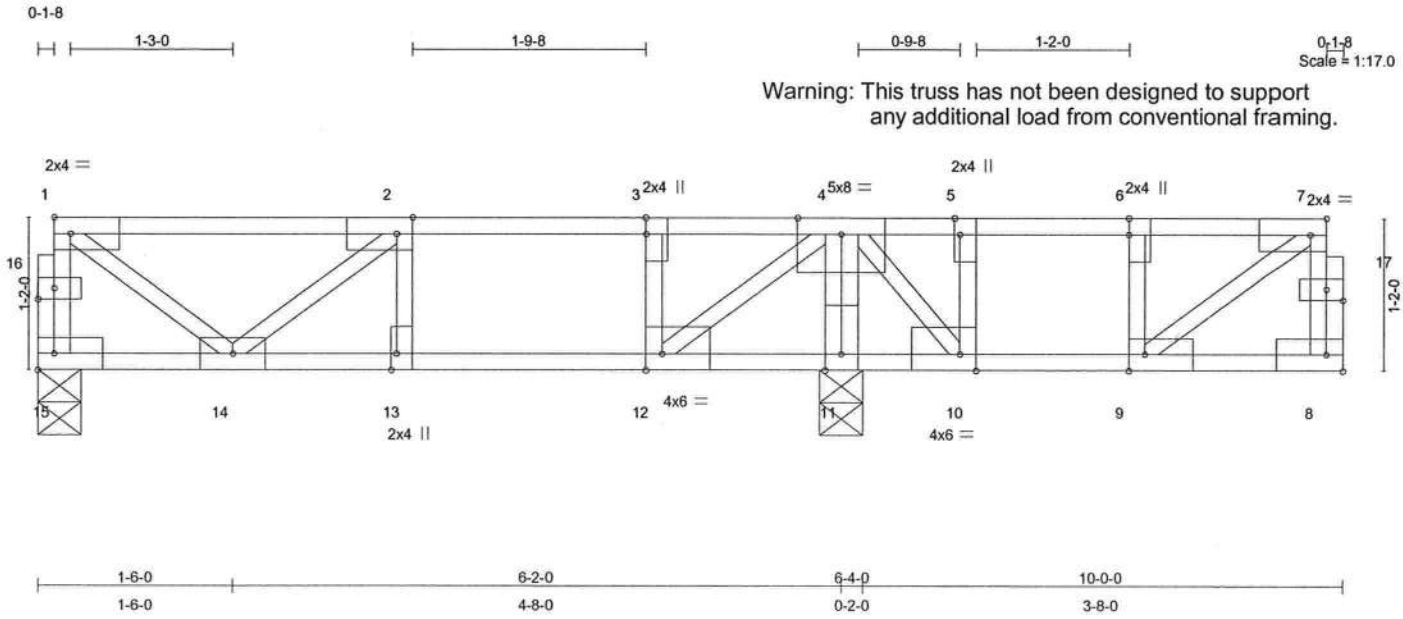

Plate Offsets (X,Y): [2:0-1-8,Edge], [3:0-1-8,Edge], [5:0-1-8,Edge], [6:0-1-8,0-0-0], [7:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [12:0-1-8,Edge], [13:0-1-8,Edge], [16:0-1-8,0-1-0], [17:0-1-8,0-1-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plates Increase	1.00	TC	0.58	Vert(LL)	-0.07	13-14	>999	360	MT20	244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.65	Vert(TL)	-0.10	13-14	>715	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(TL)	-0.00	11	n/a	n/a		
BCDL	5.0	Code FBC2004/TPI2002		(Matrix)							Weight: 54 lb	

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

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

REACTIONS (lb/size) 15=205/0-4-0, 11=855/0-4-0
Max Uplift 15=-32(load case 3)
Max Grav 15=293(load case 2), 11=855(load case 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 15-16=-299/24, 1-16=-298/24, 8-17=0/53, 7-17=0/52, 1-2=-237/83, 2-3=-341/292, 3-4=-341/292, 4-5=0/210, 5-6=0/210, 6-7=0/210
BOT CHORD 14-15=-1/18, 13-14=-292/341, 12-13=-292/341, 11-12=-773/0, 10-11=-784/0, 9-10=-210/0, 8-9=-3/0
WEBS 4-11=-1077/0, 1-14=-104/280, 4-12=0/986, 2-14=-132/267, 2-13=-235/0, 3-12=-334/0, 7-9=-259/0, 4-10=0/836, 5-10=-352/0, 6-9=0/14

JOINT STRESS INDEX
1 = 0.25, 2 = 0.24, 3 = 0.21, 4 = 0.70, 5 = 0.22, 6 = 0.02, 7 = 0.12, 8 = 0.08, 9 = 0.12, 10 = 0.57, 11 = 0.45, 12 = 0.50, 13 = 0.15, 14 = 0.26, 15 = 0.23, 16 = 0.00, 16 = 0.00, 17 = 0.00 and 17 = 0.00

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NOTES
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.

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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	JAMES & ERICA COOK / FLOOR
					J1927019
L265361F	F12	FLOOR	1	1	Job Reference (optional)

NOTES

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 15.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

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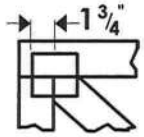
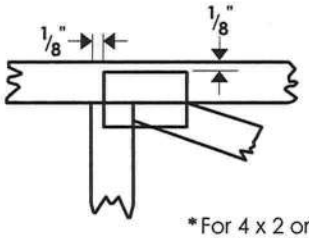
January 28,2008

Symbols

PLATE LOCATION AND ORIENTATION



*Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



*For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.

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

PLATE SIZE

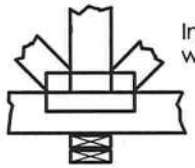
4 x 4

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

LATERAL BRACING

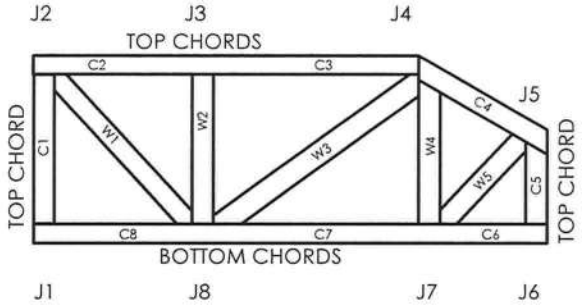
Indicates location of required continuous lateral bracing.

BEARING



Indicates location of joints at which bearings (supports) occur.

Numbering System



JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

CONNECTOR PLATE CODE APPROVALS

BOCA	96-31, 96-67
ICBO	3907, 4922
SBCCI	9667, 9432A
WISC/DILHR	960022-W, 970036-N
NER	561

MiTek®

TEE-LOK®

MiTek Engineering Reference Sheet: MII-7473

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, locate chord splices at ¼ panel length (± 6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and / or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss member or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

ASCE 7-02: 130 MPH WIND SPEED, 15' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 4"	5' 10"	6' 0"	6' 11"	7' 1"	8' 3"	8' 6"	10' 10"	11' 2"	12' 11"	13' 3"
		#3	3' 3"	4' 11"	4' 11"	6' 6"	6' 6"	8' 3"	8' 3"	10' 1"	10' 1"	12' 11"	12' 11"
		STUD	3' 3"	4' 11"	4' 11"	6' 5"	6' 5"	8' 3"	8' 3"	10' 0"	10' 0"	12' 11"	12' 11"
		STANDARD	3' 3"	4' 2"	4' 2"	5' 6"	5' 6"	7' 5"	7' 5"	8' 8"	8' 8"	11' 8"	11' 8"
	SP DFL	#1	3' 8"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#2	3' 7"	5' 10"	6' 3"	6' 11"	7' 5"	8' 3"	8' 11"	10' 10"	11' 8"	12' 11"	13' 11"
		#3	3' 6"	5' 0"	5' 0"	6' 8"	6' 8"	8' 3"	8' 8"	10' 4"	10' 4"	12' 11"	13' 7"
		STUD	3' 6"	5' 0"	5' 0"	6' 7"	6' 7"	8' 3"	8' 8"	10' 3"	10' 3"	12' 11"	13' 7"
		STANDARD	3' 4"	4' 3"	4' 3"	5' 8"	5' 8"	7' 8"	7' 8"	8' 10"	8' 10"	12' 0"	12' 0"
16" O.C.	SPF HF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
		#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
		STANDARD	3' 9"	5' 2"	5' 2"	6' 10"	6' 10"	9' 2"	9' 2"	10' 7"	10' 7"	14' 0"	14' 0"
	SP DFL	#1	4' 3"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	8' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	8' 2"	6' 2"	7' 11"	8' 2"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
		STUD	4' 0"	8' 1"	6' 1"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 5"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
12" O.C.	SPF HF	#1 / #2	4' 3"	7' 4"	7' 7"	8' 9"	8' 11"	10' 6"	10' 8"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 2"	6' 11"	6' 11"	8' 8"	8' 8"	10' 5"	10' 5"	13' 8"	13' 8"	14' 0"	14' 0"
		STUD	4' 2"	6' 11"	6' 11"	8' 8"	8' 9"	10' 5"	10' 5"	13' 6"	13' 8"	14' 0"	14' 0"
		STANDARD	4' 2"	6' 11"	6' 11"	7' 10"	7' 10"	10' 5"	10' 6"	12' 3"	12' 3"	14' 0"	14' 0"
	SP DFL	#1	4' 8"	7' 4"	7' 11"	8' 8"	8' 5"	10' 5"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#2	4' 7"	7' 4"	7' 11"	8' 8"	9' 5"	10' 6"	11' 2"	13' 8"	14' 0"	14' 0"	14' 0"
		#3	4' 4"	7' 2"	7' 2"	8' 8"	9' 2"	10' 5"	10' 11"	13' 5"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 1"	7' 1"	8' 8"	9' 2"	10' 6"	10' 11"	13' 8"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 3"	6' 1"	6' 1"	8' 0"	8' 0"	10' 5"	10' 8"	12' 6"	12' 6"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

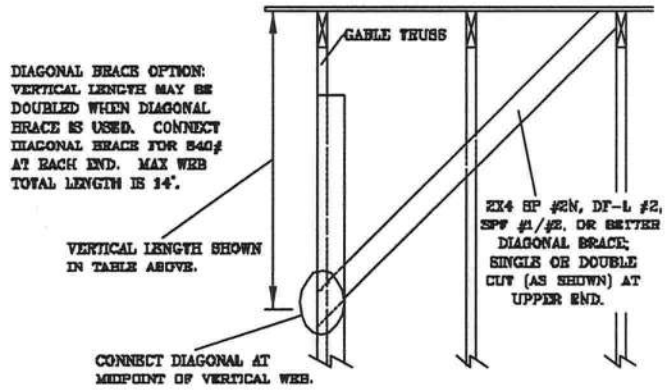
SOUTHERN PINE
#3
STUD
STANDARD

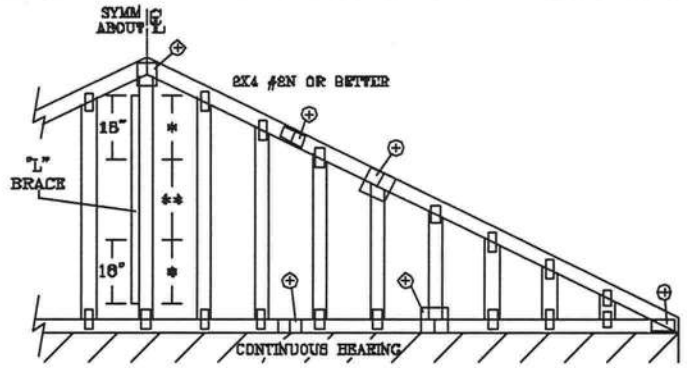
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#2
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 136 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

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

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 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	NO SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-02-GAB13015
DATE 11/26/03
DRWG MITEK STD GABLE 15 E HT
-ENG

ASCE 7-02: 130 MPH WIND SPEED, 30' MEAN HEIGHT, ENCLOSED, I = 1.00, EXPOSURE C

MAX GABLE VERTICAL LENGTH

2X4 GABLE VERTICAL SPACING	SPECIES	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(2) 2X4 "L" BRACE **		(1) 2X6 "L" BRACE *		(2) 2X6 "L" BRACE **	
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B
24" O.C.	SPF HF	#1 / #2	3' 2"	5' 6"	5' 6"	6' 6"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"
		#3	3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STUD	3' 1"	4' 5"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
		STANDARD	2' 11"	3' 9"	3' 9"	6' 0"	5' 0"	6' 9"	6' 9"	7' 10"	7' 10"	10' 7"	10' 7"
	SP DFL	#1	3' 6"	5' 8"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#2	3' 6"	5' 6"	5' 11"	6' 6"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"
		#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 8"
		STUD	3' 3"	4' 6"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 8"
		STANDARD	3' 0"	3' 10"	3' 10"	5' 1"	5' 1"	6' 11"	6' 11"	8' 0"	8' 0"	10' 10"	10' 10"
16" O.C.	SPF HF	#1 / #2	3' 8"	6' 4"	6' 6"	7' 8"	7' 8"	8' 11"	9' 2"	11' 9"	12' 1"	14' 0"	14' 0"
		#3	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
		STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
		STANDARD	3' 7"	4' 6"	4' 6"	6' 2"	6' 2"	8' 3"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"
	SP DFL	#1	4' 0"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#2	3' 11"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	9' 7"	11' 9"	12' 8"	14' 0"	14' 0"
		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 5"	11' 5"	11' 5"	14' 0"	14' 0"
		STUD	3' 8"	5' 6"	5' 8"	7' 3"	7' 3"	8' 11"	8' 5"	11' 4"	11' 4"	14' 0"	14' 0"
		STANDARD	3' 8"	4' 9"	4' 9"	6' 3"	6' 3"	8' 5"	8' 5"	9' 9"	9' 9"	13' 3"	13' 3"
12" O.C.	SPF HF	#1 / #2	4' 0"	6' 11"	7' 2"	8' 3"	8' 6"	9' 10"	10' 1"	12' 11"	15' 4"	14' 0"	14' 0"
		#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	14' 0"
		STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 10"	12' 10"	14' 0"	14' 0"
		STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	9' 6"	9' 6"	11' 1"	11' 1"	14' 0"	14' 0"
	SP DFL	#1	4' 5"	6' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#2	4' 4"	6' 11"	7' 8"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"	14' 0"
		#3	4' 2"	6' 5"	6' 5"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 3"	14' 0"	14' 0"
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 5"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"	14' 0"
		STANDARD	4' 0"	5' 6"	5' 8"	7' 3"	7' 3"	9' 9"	9' 9"	11' 4"	11' 4"	14' 0"	14' 0"

BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STUD

HEM-FIR	
#2	STUD
#3	STANDARD

DOUGLAS FIR-LARCH
#3
STUD
STANDARD

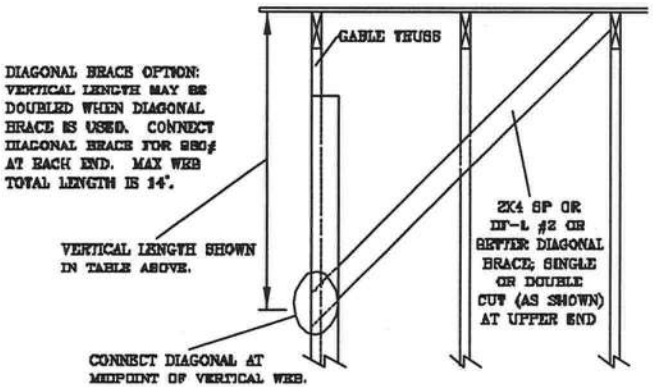
SOUTHERN PINE
#3
STUD
STANDARD

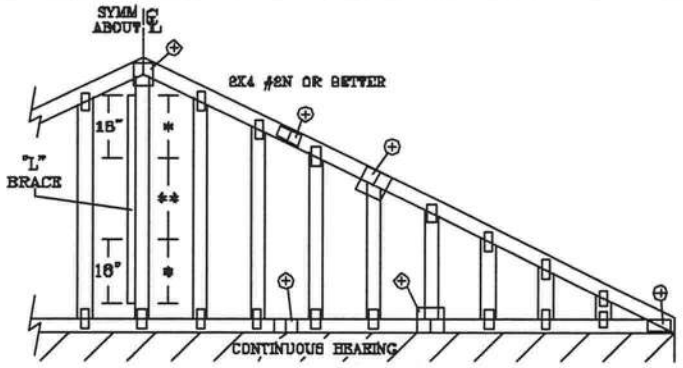
GROUP B:

HEM-FIR
#1 & BTR
#1

SOUTHERN PINE
#2
#2

DOUGLAS FIR-LARCH
#1
#2





REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH.

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 180 PLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD).

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

ATTACH EACH "L" BRACE WITH 10d NAILS.
* FOR (1) "L" BRACE: SPACE NAILS AT 2" O.C. IN 16" END ZONES AND 4" O.C. BETWEEN ZONES.
** FOR (2) "L" BRACES: SPACE NAILS AT 3" O.C. IN 16" END ZONES AND 6" O.C. BETWEEN ZONES.

"L" BRACING MUST BE A MINIMUM OF 80% OF WEB MEMBER LENGTH.

GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH	MID SPLICE
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

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

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161
No: 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

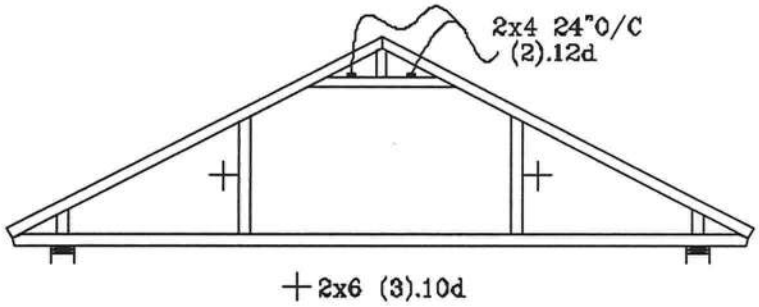
REF ASCE7-02-GAB13030

DATE 11/26/03

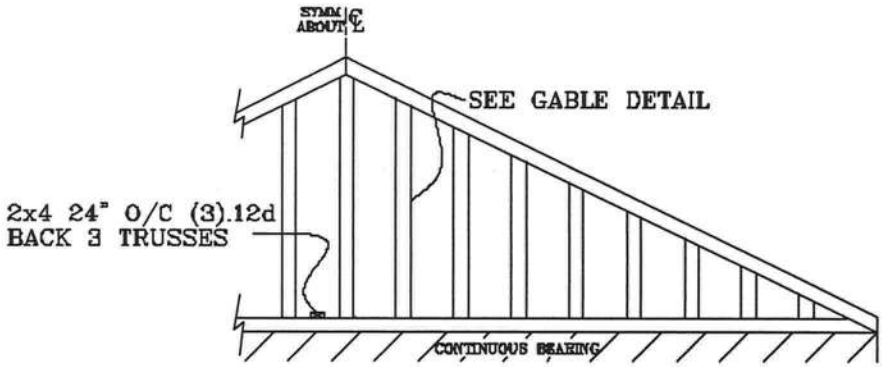
DWG MTEK STD GABLE 30' E W7

-ENG

TYPICAL ATTIC TRUSS BRACING

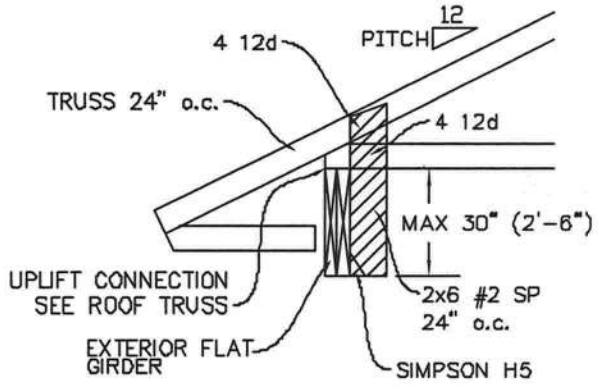


GABLE END TRUSS DETAIL

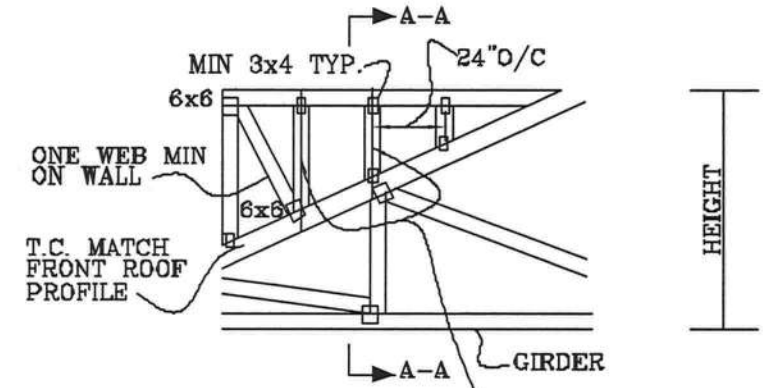


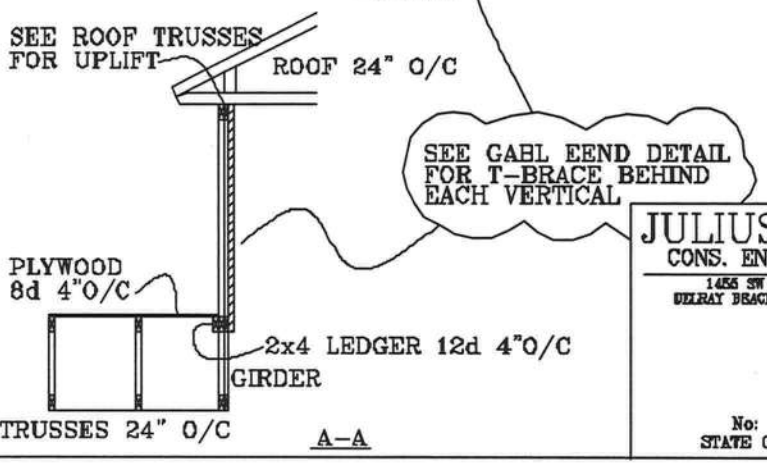
MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL





JULIUS LEE'S
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DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. ATTACH VERTICAL WEBS TO TRUSS TOP CHORD WITH 1.5X3 PLATE.

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS.

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

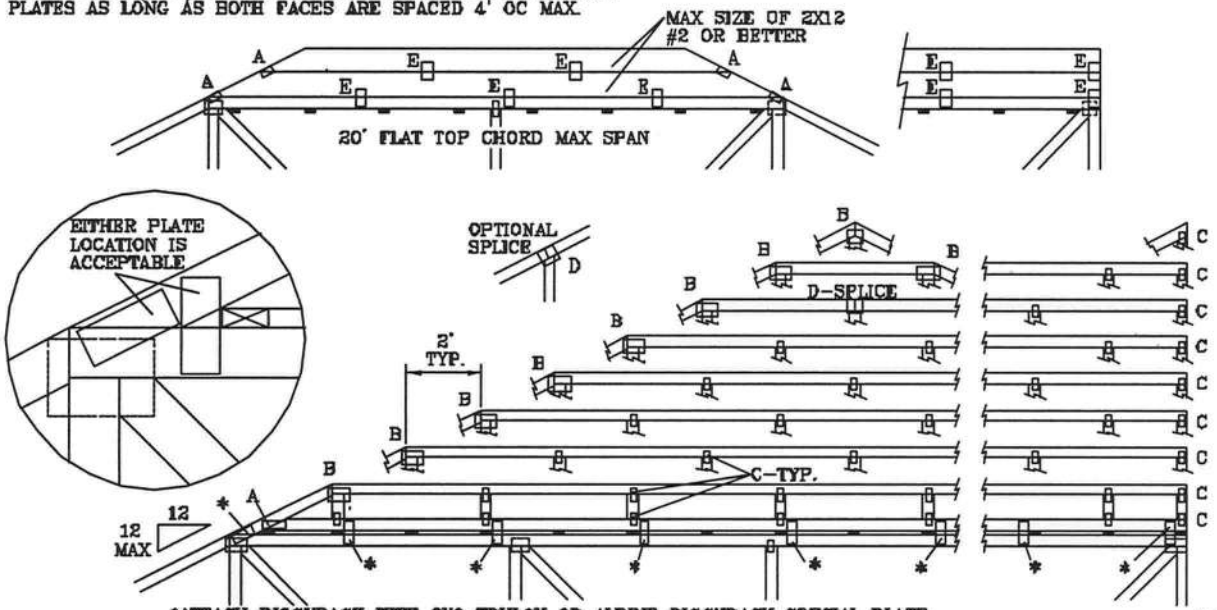
THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL=5 PSF, WIND BC DL=5 PSF

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.



*ATTACH PIGGYBACK WITH 3X8 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE.

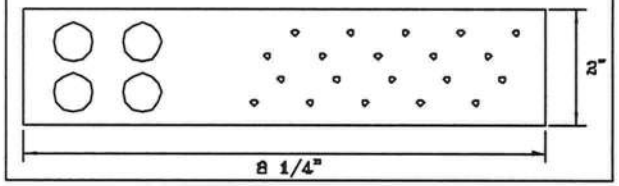
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	52'
A	2X4	2.5X4	2.5X4	3X5
B	4X6	5X6	5X8	5X6
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	5X5	5X5	5X6
E	4X8 OR 3X6 TRULOX AT 4' OC, ROTATED VERTICALLY			

ATTACH TRULOX PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRULOX INFORMATION.

WEB BRACING CHART	
WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	1x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 8d NAILS AT 4" OC.
10' TO 14'	2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4" OC.

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



THIS DRAWING REPLACES DRAWINGS 634,016 634,017 & 847,045

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

MAX LOADING
55 PSF AT 1.33 DUR. FAC.
50 PSF AT 1.25 DUR. FAC.
47 PSF AT 1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG MITEK STD PIGGY
-ENG JL

VALLEY TRUSS DETAIL

TOP CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER.
BOT CHORD 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 OR BETTER.
WEBS 2X4 SP #3 OR BETTER.

* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

** ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND OR (3) 16d FOR ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.

UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEB, VALLEY WEB, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

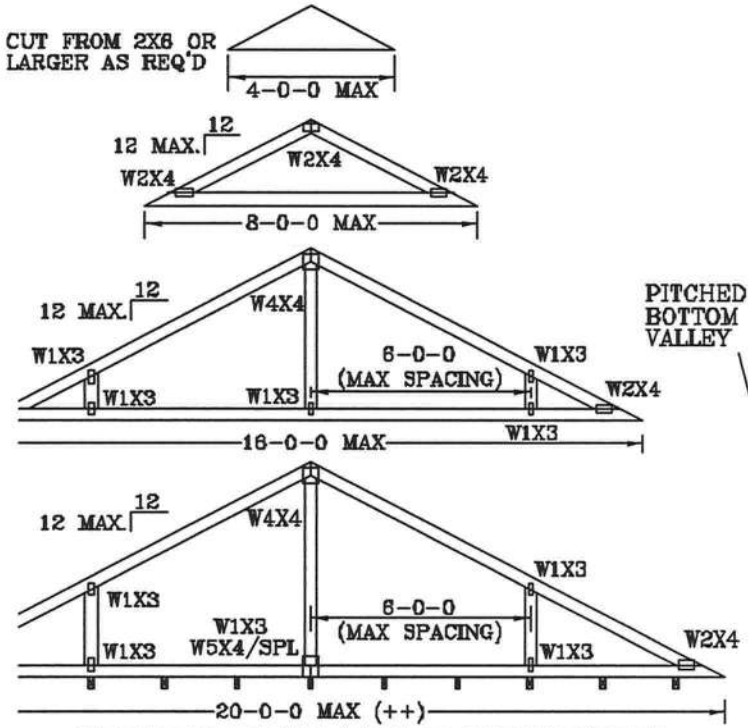
MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0".

TOP CHORD OF TRUSS BENEATH VALLEY SET MUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION
OR
PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN
OR
BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON ENGINEERS' SEALED DESIGN.

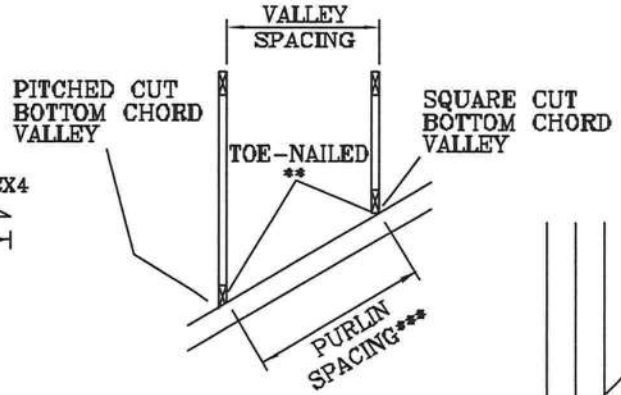
*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD.

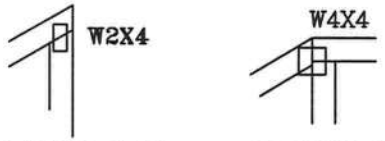
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

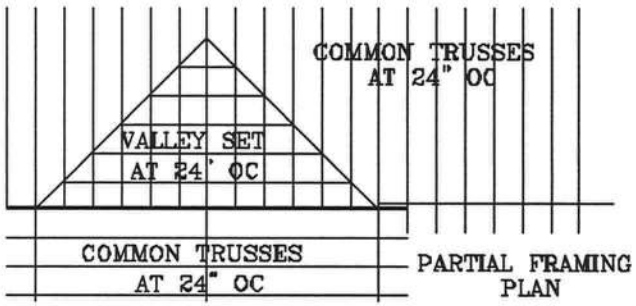
BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.



SUPPORTING TRUSSES AT 24" OC MAXIMUM SPACING.







THIS DRAWING REPLACES DRAWING A105

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

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1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	20	20	PSF	REF	VALLEY DETAIL
TC DL	7	15	PSF	DATE	11/26/03
BC DL	5	5	PSF	DRWG	VALTRUSS1103
BC LL	0	0	PSF	-ENG	JL
TOT. LD.	32	40	PSF		
DURFAC.	1.25	1.25			
SPACING		24"			

TOE-NAIL DETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

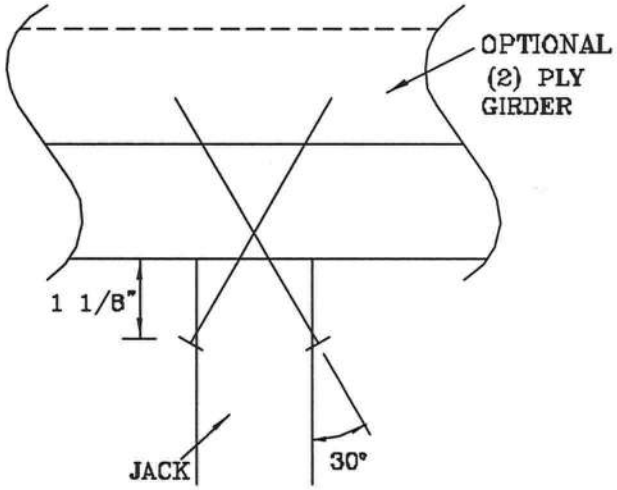
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

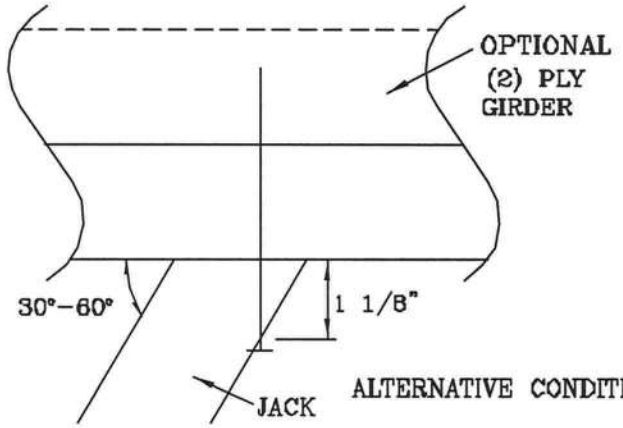
THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.





ALTERNATIVE CONDITION

THIS DRAWING REPLACES DRAWING 784040

=WARNING= TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

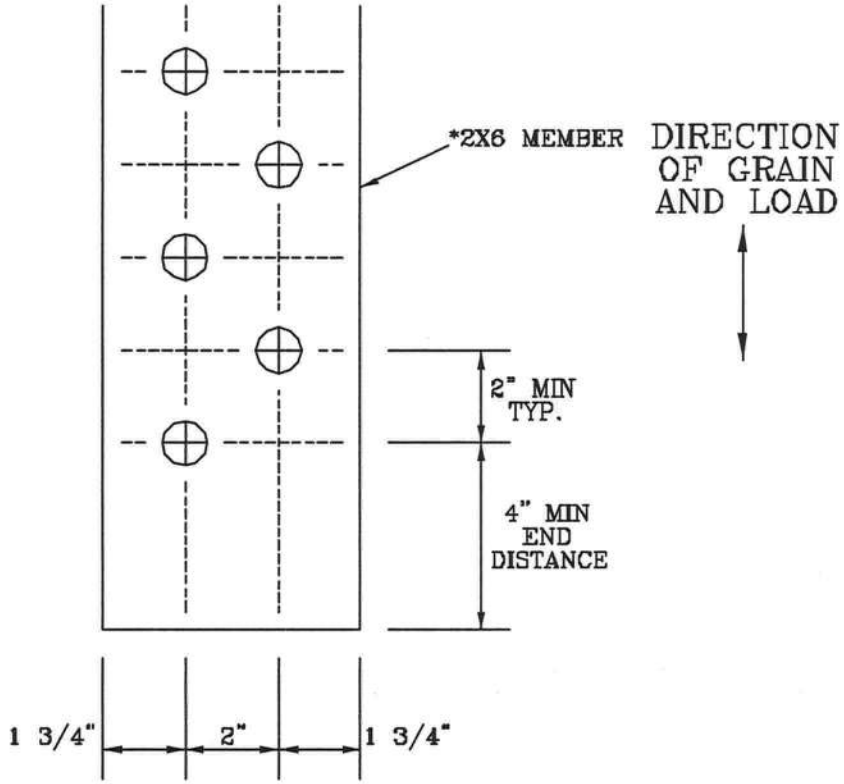
1/2" DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN.

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN.

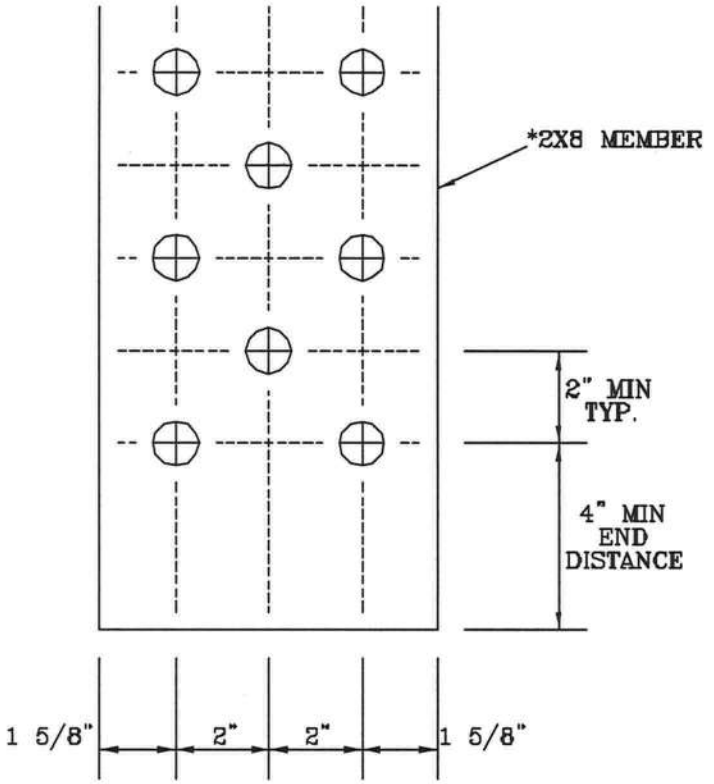
BOLT HOLES SHALL BE A MINIMUM OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL



2X8 DETAIL

THIS DRAWING REPLACES DRAWING A628,016

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (I-03 BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI. 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

No: 34869
STATE OF FLORIDA

TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

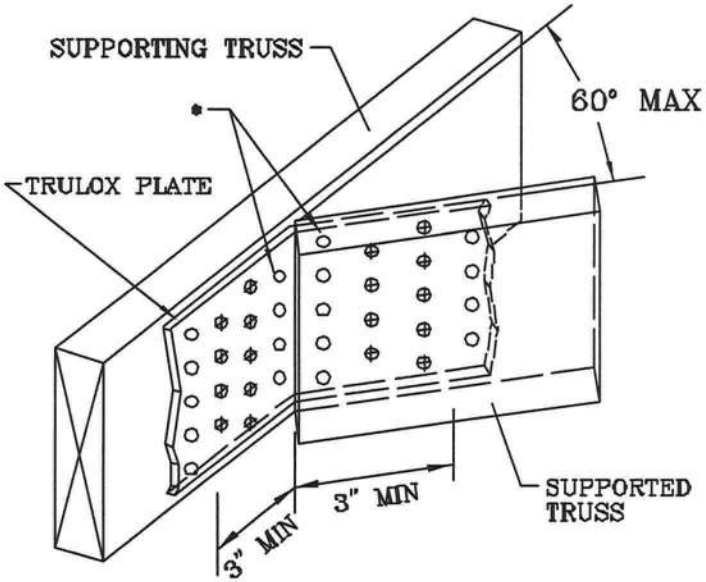
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (⊕).

* NAILS MAY BE OMITTED FROM THESE ROWS.

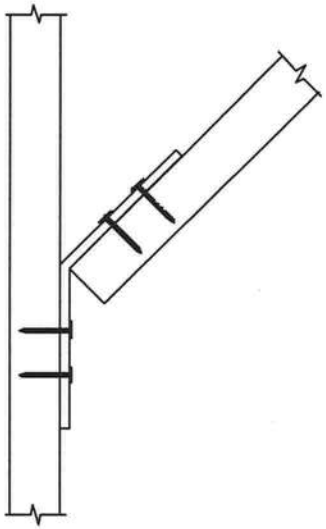
THIS DETAIL MAY BE USED WITH SO. PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

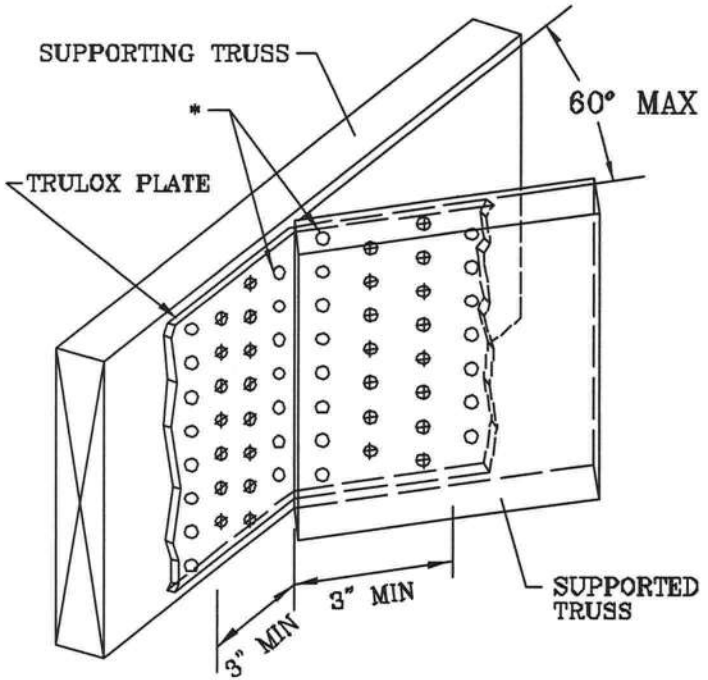
TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN.



MINIMUM 3X6 TRULOX PLATE





MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
5X6	15	990#

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R 1,154,944 1,152,217 1,152,017 1,159,154 & 1,151,524

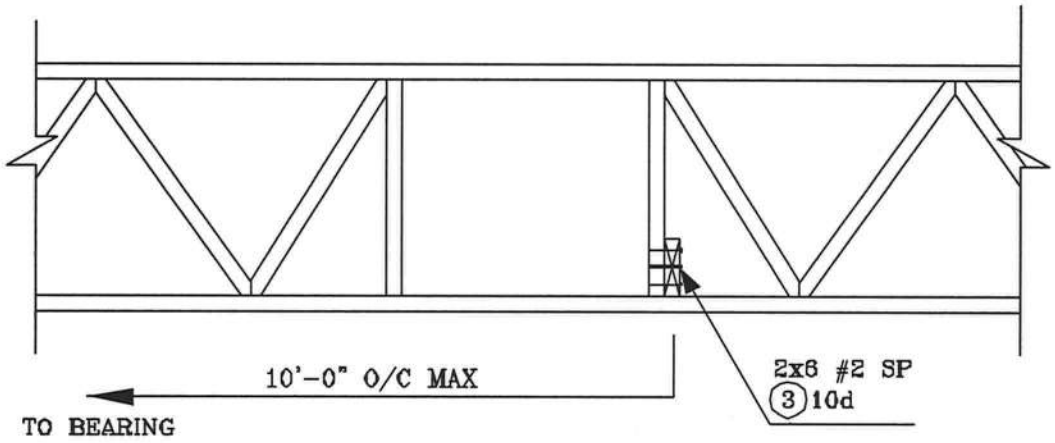
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI 1-03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 583 D'ONOFRIO DR., SUITE 200, MADISON, WI 53719) AND WTCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LN, 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.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

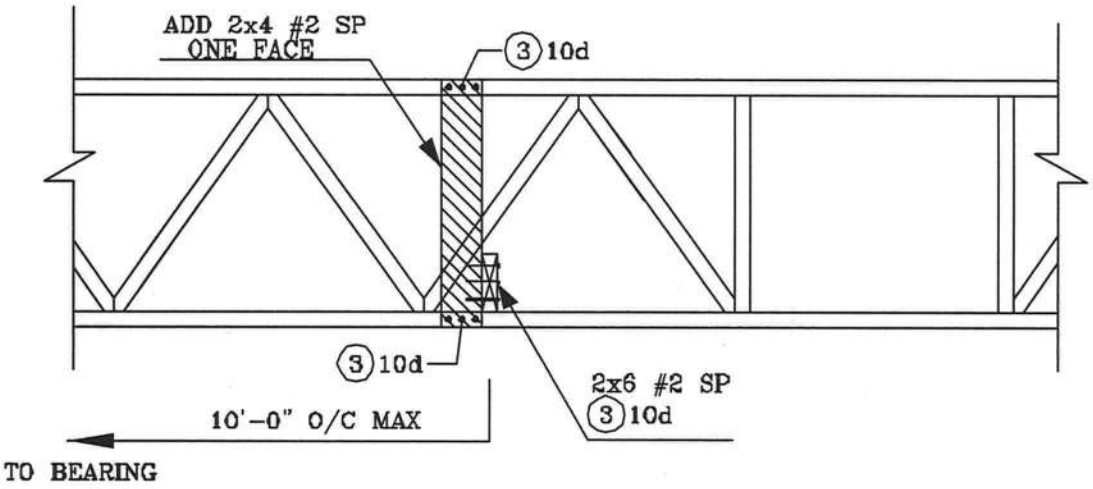
No: 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
-ENG	JL

STRONG BACK DETAIL
SYSTEM–42 OR FLAT TRUSS



ALTERNATE DETAIL FOR
STRONG BACK WITH VERTICAL
NOT LINING UP



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CONS. ENGINEERS P.A.
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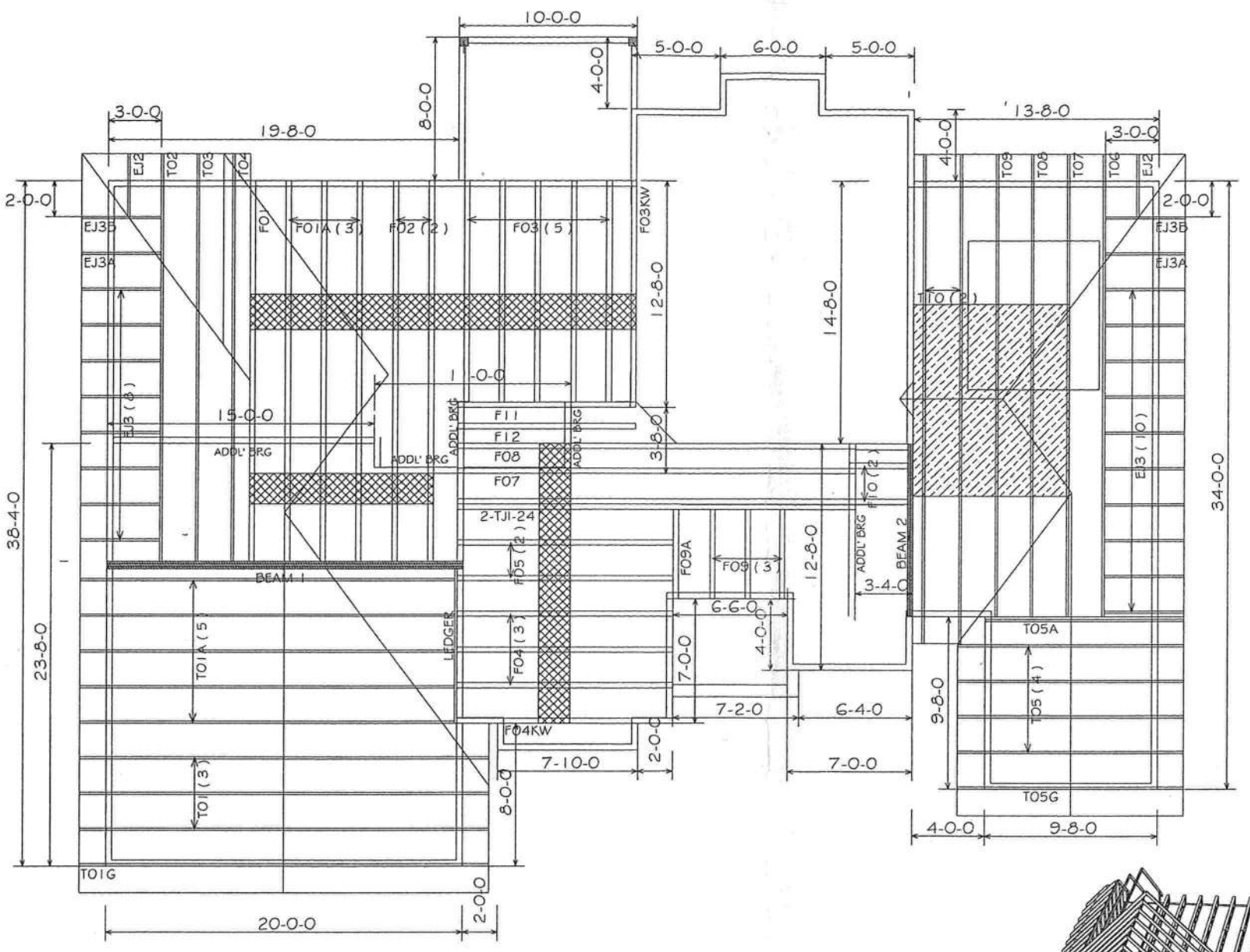
DELRAY BEACH, FL 33444-2161

No: 34869
STATE OF FLORIDA



TRUSS INFORMATION:

FLOOR DEPTH: 1' 2"

FLOOR SPACING: 24" O/C

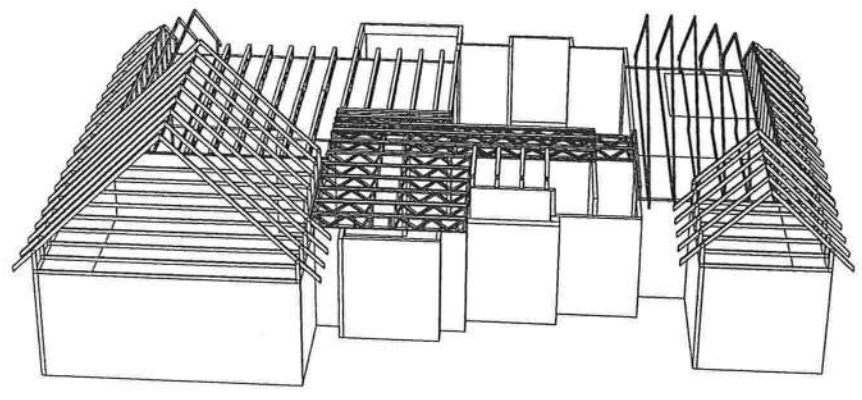
HANGER LIST:
20 - THA422

BEAM LIST:
BEAM 1 = 4-PLY 1 3/4" X 14" X 20' LVL

BEAM 2 = 2-PLY 1 3/4" X 14" X 10' LVL

I-JOIST LIST:
2-PLY = TJI 560 24'

NOTE: ADDITIONAL INT. BEARING WALLS NEEDED ANY AND ALL HEADERS BY OTHERS



BEARING HEIGHT SCHEDULE

9' 0"

A/C CHASE

NOTES:

1) REFER TO HIP 9 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.
2) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.
3) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.
4) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.
5) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.
6) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.
7) ALL ROOF TRUSS HANGERS TO BE SIMPSON HTU26 UNLESS OTHERWISE NOTED. ALL FLOOR TRUSS HANGERS TO BE SIMPSON THA422 UNLESS OTHERWISE NOTED.
8) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

SHOP DRAWING APPROVAL

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

Expected Delivery Date: _____

Approved By: _____ Date: _____

Builders FirstSource

Bunnell
PHONE: 904-437-3349 FAX: 904-437-3994

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Lake City
PHONE: 386-755-6894 FAX: 386-755-7973

Sanford
PHONE: 407-322-0059 FAX: 407-322-5553

BUILDER: AARON SIMQUE

LEGAL ADDRESS: THE COVE COLUMBIA CTY., FL

MODEL: JAMES & ERICA COOK

REVISION: 12/5/08

SCALE: NTS

DATE: 01/15/08

DRAWN BY: JP

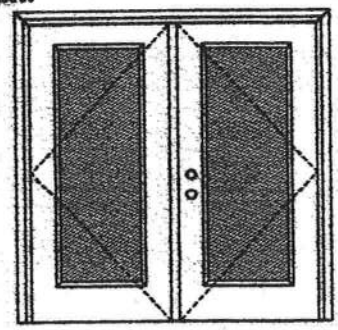
JOB #: L2G53G1F

XX
Glazed Outswing Unit

COP-WL-JH4162-02

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 6'8".

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

Design Pressure
+40.5/-40.5
Limited water unless 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:


100 Series


133, 135 Series


136 Series


680 Series


822 Series

1/2 GLASS:

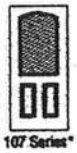

105 Series*


106, 160 Series*


129 Series*


200 Series*


12 R/L, 23 R/L, 24 R/L Series*


107 Series*


108 Series


304 Series

*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.

Johnson™ EntrySystems

March 29, 2002
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PREMDOR® Collection Premium Quality Doors
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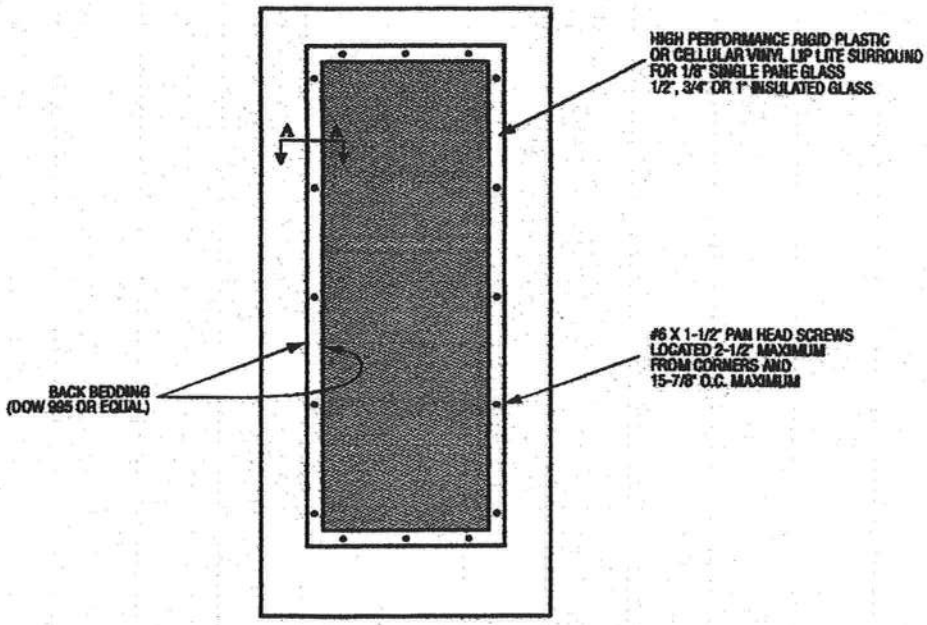
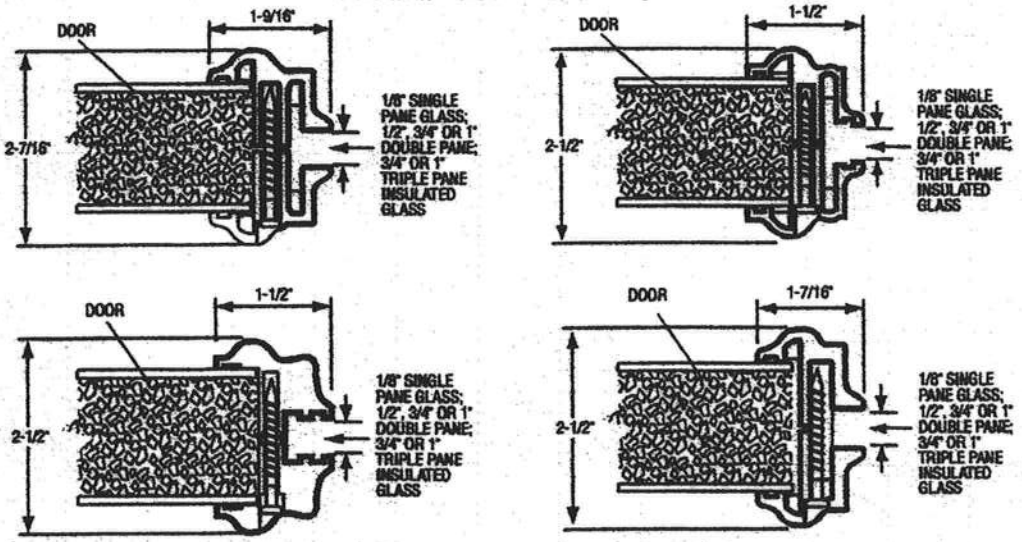
GLASS INSERT IN DOOR OR SIDELITE PANEL



SECTION A-A
TYPICAL RIGID PLASTIC LIP LITE SURROUND



XX
Glazed Outswing Unit

COP-WL-JH4162-02

WOOD-EDGE STEEL DOORS

APPROVED DOOR STYLES:

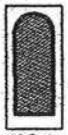
3/4 GLASS:

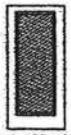

404 Series

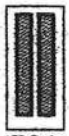

416 Series

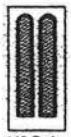

450 Series

FULL GLASS:


109 Series


114, 120, 122 Series


152 Series


149 Series


300 Series

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 end rails constructed of 0.041" steel. Bottom end 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 lite 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 Balthy

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

Johnson EntrySystems

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PREMDOR Collection Premium Quality Doors

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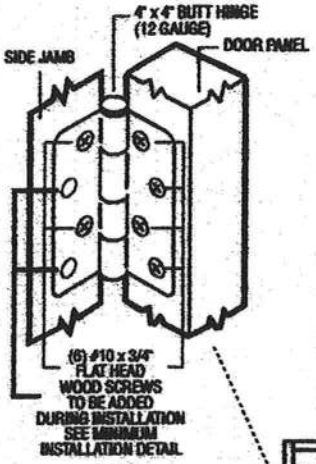
XX
Unit

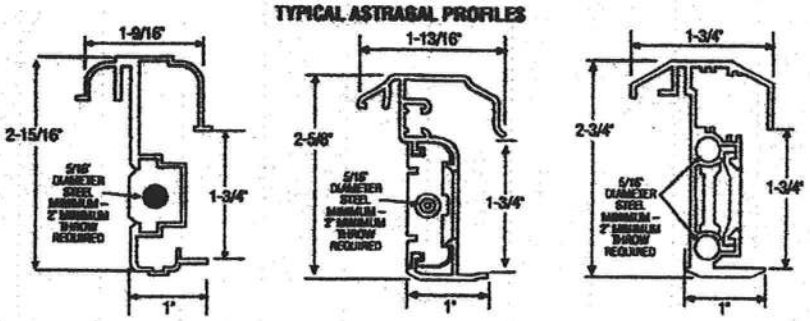
MAD-WL-MA0012-02

OUTSWING UNITS WITH DOUBLE DOOR

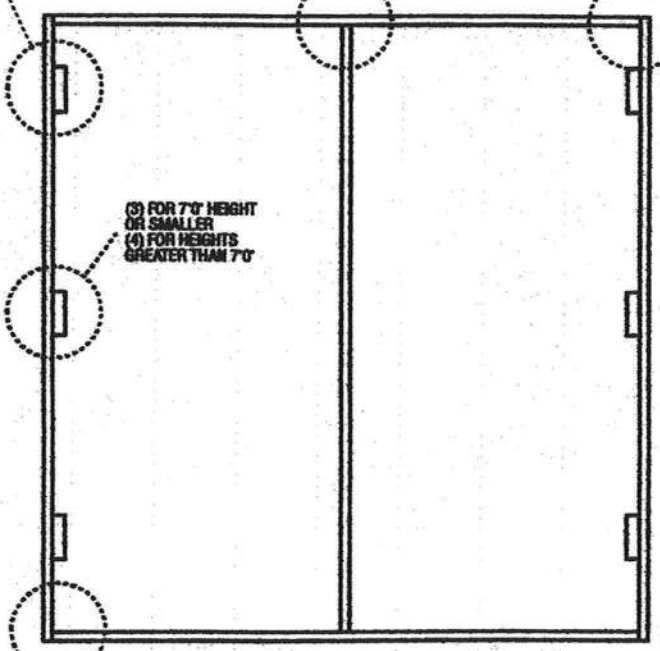
TYPICAL HINGE ATTACHMENT



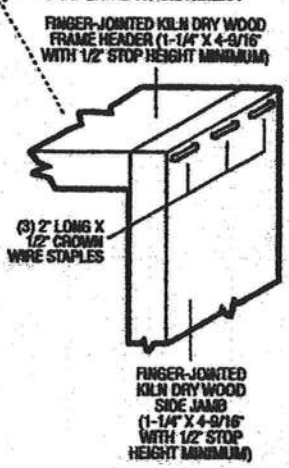
TYPICAL ASTRAGAL PROFILES



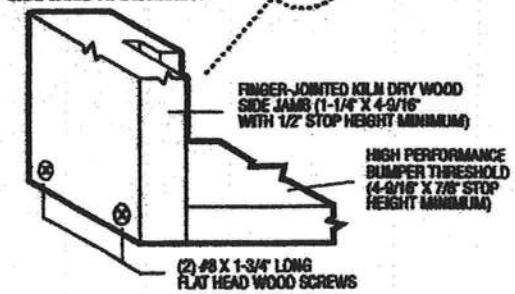
ALUMINUM EXTRUDED ASTRAGAL (0.05" MINIMUM WALL THICKNESS) WITH ADDED REINFORCEMENT INSERTS AT TOP EXTENSION BOLT, BOTTOM EXTENSION BOLT AND CYLINDERICAL/DEADBOLT LATCHING LOCATIONS. ATTACH WITH #8 X 1" PAN HEAD SCREWS – LOCATE 1" FROM EACH END MINIMUM AND 22" O.C. MAXIMUM.



TYPICAL HEADER & SIDE JAMB ATTACHMENT



TYPICAL THRESHOLD & SIDE JAMB ATTACHMENT



March 29, 2002
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PREMDOR Collection Premium Quality Doors
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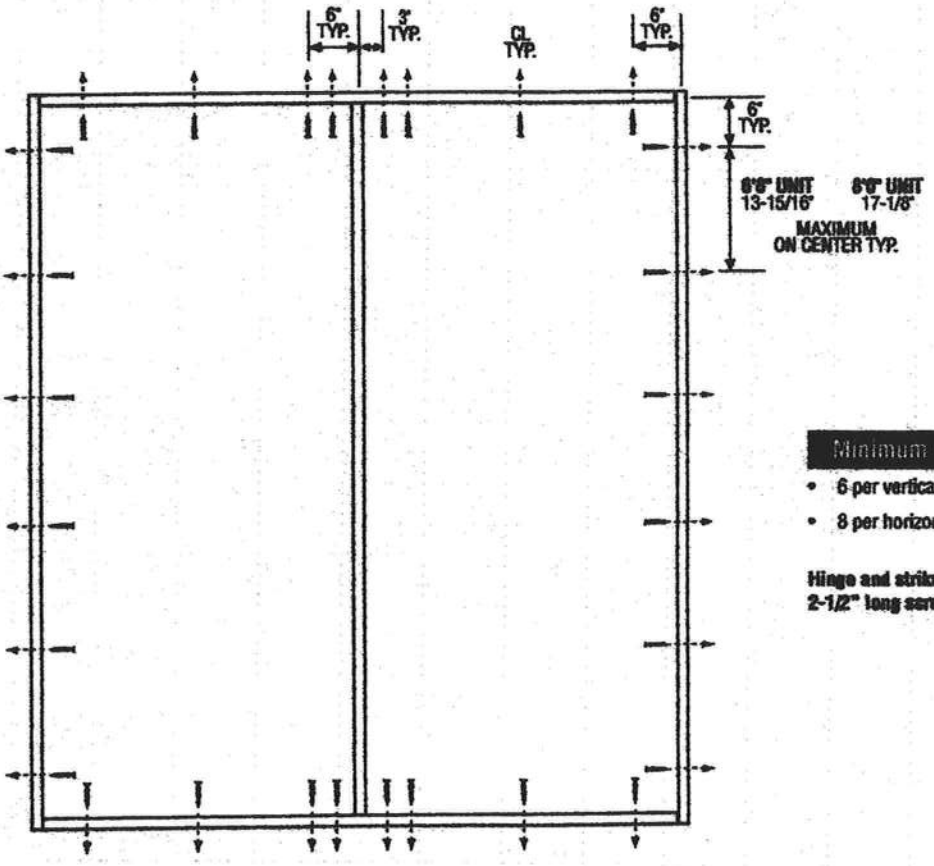
Masonite International Corporation

XX
Unit

MID-WL-MA0002-02

DOUBLE DOOR



Minimum Fastener Count

- 6 per vertical framing member
- 8 per horizontal framing member

Hinge and strike plates require two 2-1/2" long screws per location.

Latching Hardware:

- Compliance requires that GRADE 2 or better (ANSI/BHMA A156.2) cylinderical and deadlock hardware be installed.

Notes:

1. Anchor calculations have been carried out with the lowest (least) fastener rating from the different fasteners being considered for use. Fasteners analyzed for this unit include #8 and #10 wood screws or 3/16" Tapcons.
2. The wood screw single shear design values come from Table 11.3A of ANSI/AF & PA NDS for southern pine lumber with a side member thickness of 1-1/4" and achievement of minimum embedment. The 3/16" Tapcon single shear design values come from the ITW and ELCO Dade Country approvals respectively, each with minimum 1-1/4" embedment.
3. Wood bucks by others, must be anchored properly to transfer loads to the structure.

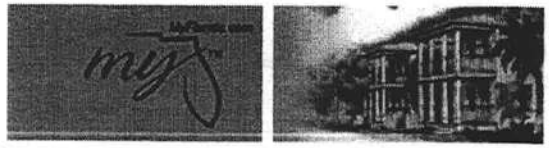
PREMDOR Collection Premium Quality Doors

Exclusively from Masonite®

Masonite International Corporation

March 29, 2002

FLORIDA DEPARTMENT OF Community Affairs



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- EMERGENCY MANAGEMENT
- OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL5108
Application Type	New
Code Version	2004
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	MI Windows and Doors
Address/Phone/Email	650 W Market St Gratz, PA 17030 (717) 365-3300 ext 2101 surich@miwd.com
Authorized Signature	Steven Urich surich@miwd.com
Technical Representative Address/Phone/Email	
Quality Assurance Representative Address/Phone/Email	

Windows

A·L·I
(Validator / Operations Administrator)

AAMA
CERTIFICATION PROGRAM

AUTHORIZATION FOR PRODUCT CERTIFICATION

MI Windows & Doors, Inc.
P.O. Box 370
Gratz, PA 17030-0370

Attn: Bill Emley

The product described below is hereby approved for listing in the next issue of the AAMA Certified Products Directory. The approval is based on successful completion of tests, and the reporting to the Administrator of the results of tests, accompanied by related drawings, by an AAMA Accredited Laboratory.

1. The listing below will be added to the next published AAMA Certified Products Directory.

SPECIFICATION	RECORD OF PRODUCT TESTED				LABEL ORDER NO.
AAMA/NWWDA 101/I.S. 2-97 H-R55*-36x62					
COMPANY AND PLANT LOCATION	CODE NO.	SERIES MODEL & PRODUCT DESCRIPTION	MAXIMUM SIZE TESTED		
			FRAME	SASH	
MI Windows & Doors, Inc. (Oldsmar, FL) MI Windows & Doors, Inc. (Smyrna, TN)	MTL-8 MTL-9	185/3185 SH (Fin) (AL)(O/X)(OG) (ASTM)	3'0" x 5'2"	2'10" x 2'7"	By Request

2. This Certification will expire May 14, 2008 and requires validation until then by continued listing in the current AAMA Certified Products Directory.

3. Product Tested and Reported by: Architectural Testing, Inc.

   Report No.: 01-50360.02

   Date of Report: June 14, 2004

NOTE: PLEASE REVIEW, AND ADVISE ALI IMMEDIATELY IF DATA, AS SHOWN, NEEDS CORRECTION.

Date: August 1, 2005

Validated for Certification:

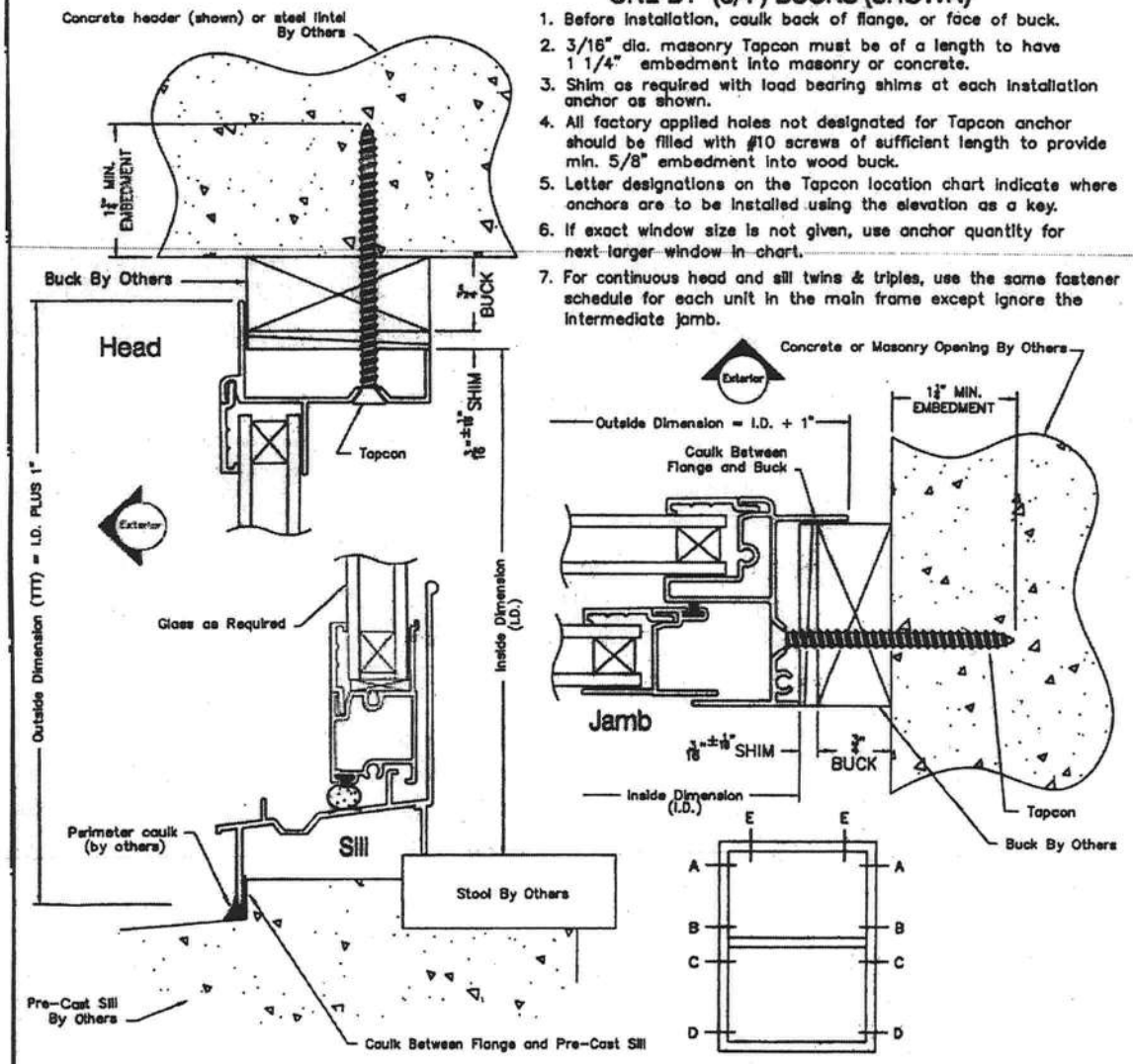
Associated Laboratories, Inc.

Authorized for Certification:

American Architectural Manufacturers Association

cc: AAMA
JGS/df
ACP-04 (Rev. 5/03)

"ONE BY" (3/4") BUCKS (SHOWN)



1. Before installation, caulk back of flange, or face of buck.
2. 3/16" dia. masonry Tapcon must be of a length to have 1 1/4" embedment into masonry or concrete.
3. Shim as required with load bearing shims at each installation anchor as shown.
4. All factory applied holes not designated for Tapcon anchor should be filled with #10 screws of sufficient length to provide min. 5/8" embedment into wood buck.
5. Letter designations on the Tapcon location chart indicate where anchors are to be installed using the elevation as a key.
6. If exact window size is not given, use anchor quantity for next larger window in chart.
7. For continuous head and sill twins & triples, use the same fastener schedule for each unit in the main frame except ignore the intermediate jamb.

*"TAPCON" TYPE HARDENED MASONRY SCREWS INCLUDE TAPCON, RAWL, & SIMPSON

SYM	REVISION	DATE	BY
A	REMOVED SILL INSTALLATION ANCHOR SCREWS	7/16/04	BB

"TWO BY" (1 1/2") BUCKS

"TWO BY" bucks are engineered and fastened to the masonry opening BY OTHERS.

Follow the same instructions and fastener requirements for "one by" bucks except use #10 screws of sufficient length for 1 1/4" minimum embedment into buck.

MI HOME PRODUCTS
BetterBilt / Capitol

* TAPCON LOCATION CHART

CODE SIZE	WINDOW ID SIZE	FASTENER LOCATIONS UP TO DP35	DP35.1 TO DP55	DP55.1 TO DP69.3
12	18 1/8 x 25	A, D & E	A, D & E	A, D & E
13	18 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
14	18 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
15	18 1/8 x 62	A, D & E	A, D & E	A, D & E
16	18 1/8 x 71	A, D & E	A, D & E	A, D & E
17	18 1/8 x 83	A, D & E	A, D & E	A, D & E
1/2 32	25 1/2 x 25	A, D & E	A, D & E	A, D & E
1/2 33	25 1/2 x 37 3/8	A, D & E	A, D & E	A, D & E
1/2 34	25 1/2 x 49 5/8	A, D & E	A, D & E	A, D & E
1/2 35	25 1/2 x 62	A, D & E	A, D & E	A, D & E
1/2 36	25 1/2 x 71	A, D & E	A, D & E	A, D & E
1/2 37	25 1/2 x 83	A, D & E	A, D & E	A, C, D & E
22	36 x 25	A, D & E	A, D & E	A, D & E
23	36 x 37 3/8	A, D & E	A, D & E	A, D & E
24	36 x 49 5/8	A, D & E	A, D & E	A, D & E
25	36 x 62	A, D & E	A, D & E	A, D & E
26	36 x 71	A, D & E	A, D & E	A, C, D & E
27	36 x 83	A, D & E	A, C, D & E	A, C, D & E
32	52 1/8 x 25	A, D & E	A, D & E	A, D & E
33	52 1/8 x 37 3/8	A, D & E	A, D & E	A, D & E
34	52 1/8 x 49 5/8	A, D & E	A, D & E	A, D & E
35	52 1/8 x 62	A, D & E	A, C, D & E	A, C, D & E
36	52 1/8 x 71	A, D & E	A, C, D & E	A, B, C, D & E
37	52 1/8 x 83	A, D & E	A, C, D & E	A, B, C, D & E
2040	23 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
2050	23 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
2060	23 3/8 x 71 5/8	A, D & E	A, D & E	A, D & E
2070	23 3/8 x 83 5/8	A, D & E	A, D & E	A, D & E
3040	35 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
3050	35 3/8 x 59 5/8	A, D & E	A, D & E	A, D & E
3060	35 3/8 x 71 5/8	A, D & E	A, D & E	A, C, D & E
3070	35 3/8 x 83 5/8	A, D & E	A, C, D & E	A, C, D & E
4040	47 3/8 x 47 5/8	A, D & E	A, D & E	A, D & E
4050	47 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4060	47 3/8 x 71 5/8	A, D & E	A, C, D & E	A, C, D & E
4070	47 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4450	51 3/8 x 59 5/8	A, D & E	A, D & E	A, C, D & E
4460	51 3/8 x 71 5/8	A, D & E	A, C, D & E	A, B, C, D & E
4470	51 3/8 x 83 5/8	A, D & E	A, C, D & E	A, B, C, D & E

MI HOME PRODUCTS
GRATZ, PA

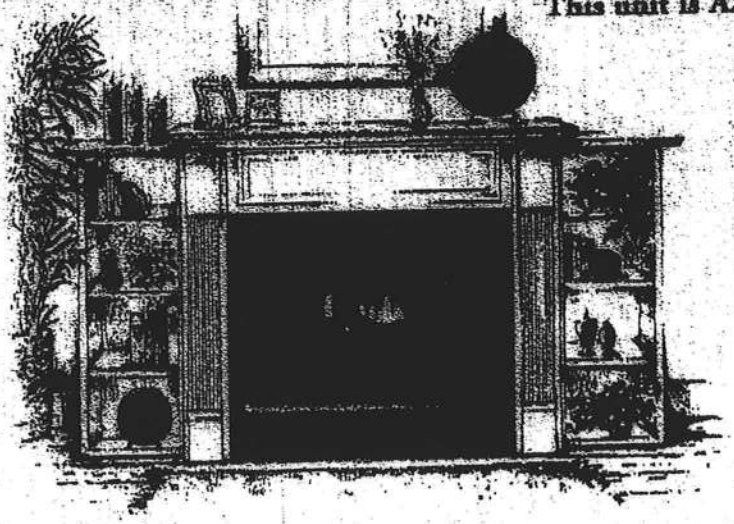
TITLE: 185/3185 SINGLE HUNG FLANGE FRAME INSTALLATION DETAILS & FASTENER SCHEDULE

PREPARED BY: PTC Product Technology Corporation
Phone 407.822.6334 Fax 407.822.6335

DRAWN: DRL	DATE: 06/15/04
SCALE: N.T.S.	DWG. NO: MIHP0059
REV. LETTER: A	SHEET: 1 OF 1

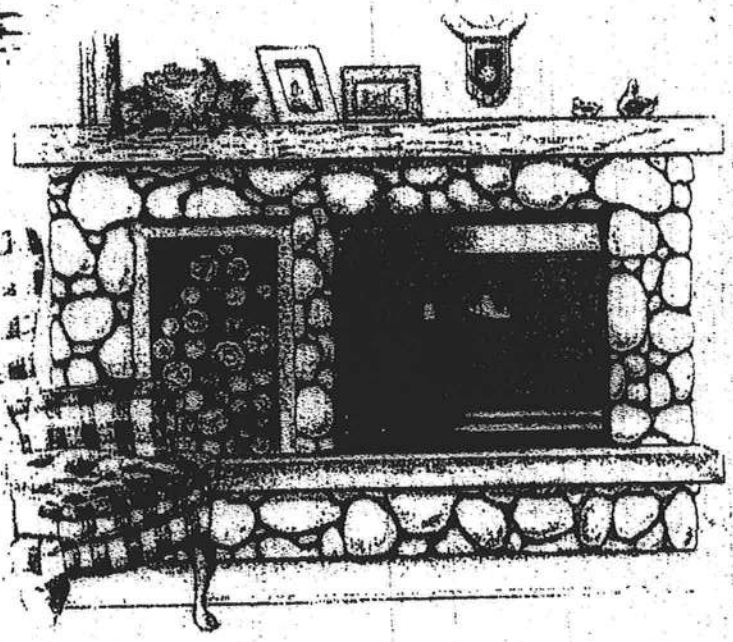
VENT-FREE

This unit is A.G.A. certified as a heater with 99% heat efficiency
No chimney or flue system required
Wide selection of factory installed options offered



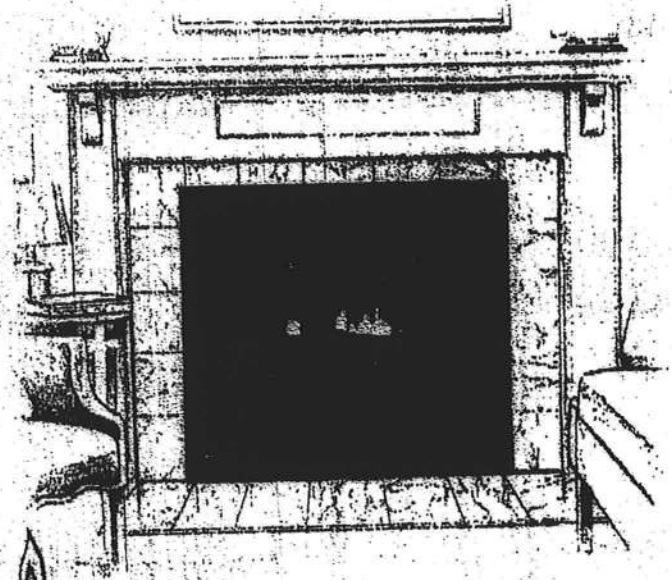
VF-4000

- 14,000 – 25,000 Btu/hr with manual control valve
- 19,500 – 25,000 Btu/hr with millivolt control valve
- Fully assembled and ready to install
- Attractive wood surrounds available
- 15" x 30" fixed or operable screen opening



VF-5000

- 25,000 Btu/hr millivolt variable heat output
- 15" X 30" glass or screen viewing area
- Clean burning, safe and easy to install
- Realistic charred oak logs with glowing embers



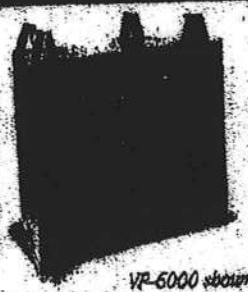
VF-6000

- 32,000 Btu/hr millivolt variable heat output
- Beautiful 20" X 34" glass or screen viewing area
- Will operate during a power failure
- Designed for large rooms

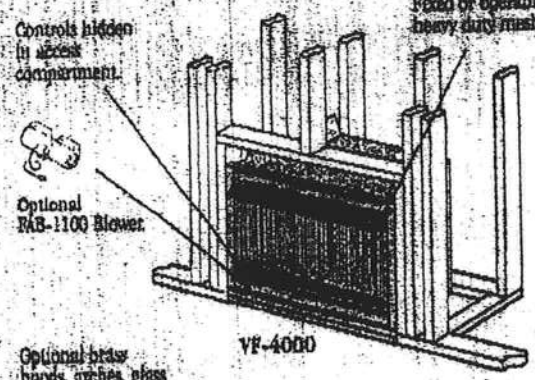
GAS

SUPERIOR

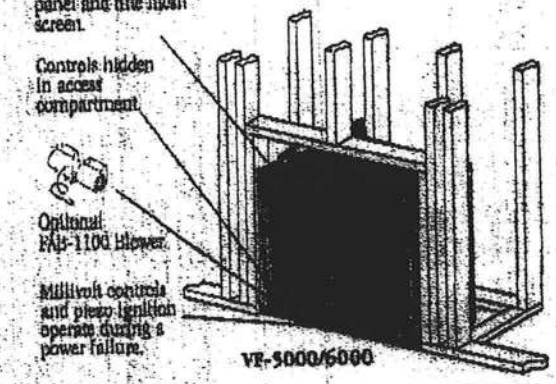
VF-4000/5000/6000



VF-6000 shown



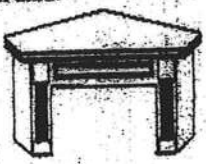
VF-4000



VF-5000/6000

SURROUNDS

The Charleston Poplar Surround is hand crafted using a combination of solid Poplar and Poplar veneer. Using the unique wood type of Poplar allows you the option to paint or stain this elegantly detailed surround. The surround is constructed using easy to assemble cam locks, and available in corner and wall units.



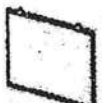
Distributed by:

Refractory tan brick panels

Gas flue liner kit.

Square brass trim kit.

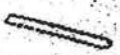
Brass Louver Kit (For VF-4 only)



Screen panel kit. (For VF-5 & VF6 only)

Arch kit. (For VF-5 & VF6 only)

Glass door kit. (For VF-5 & VF6 only)

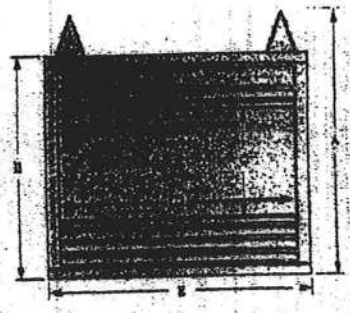


Brass hood. (For VF-5 & VF6 only)

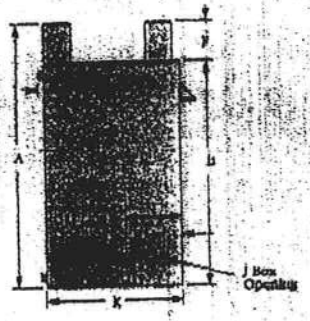
Wall switch or optional wireless remote available. (For VF-4MV, VF-5 & VF-6)

Wall thermostat (For VF-4MV, VF-5 & VF-6)

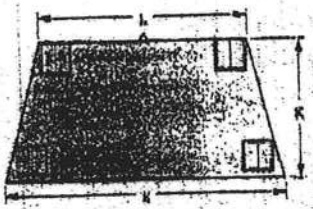
Front View



Left Side View



Top View



Vent-Free Product Dimensions

	VF-4000/5000C	VF-6000C
A		42-1/8"
B	33-1/2"	36-5/8"
C		20"
D	30"	34"
E		40"
F	5-1/2"	5-1/2"
G		1-1/2"
H	3-1/4"	3-3/4"
J		8-1/2"
K	3"	3"
L		19-1/2"
M	27"	28-1/2"

Btu Chart

Model	Natural	Propane
VF-4000 manual	14,000 – 25,000	14,000 – 25,000
VF-4000/5000 millivolt	19,500 – 25,000	19,500 – 25,000
VF-6000	25,000 – 32,000	25,000 – 32,000

Framing Dimension

Model	Width	Height	Depth
VF-4000/5000	37"	37-1/4"	15-1/2"
VF-6000	41"	42-3/8"	19-1/2"

NOTE: Diagrams and illustrations are not to scale. Product designs, materials, dimensions, specifications, colors and prices subject to change or discontinuation without notice. Built to ANSI Z21.11.2 standard and approved by A.G.A. (report # L2970017).

Consult your distributor for local fireplace code information.

SUPERIOR

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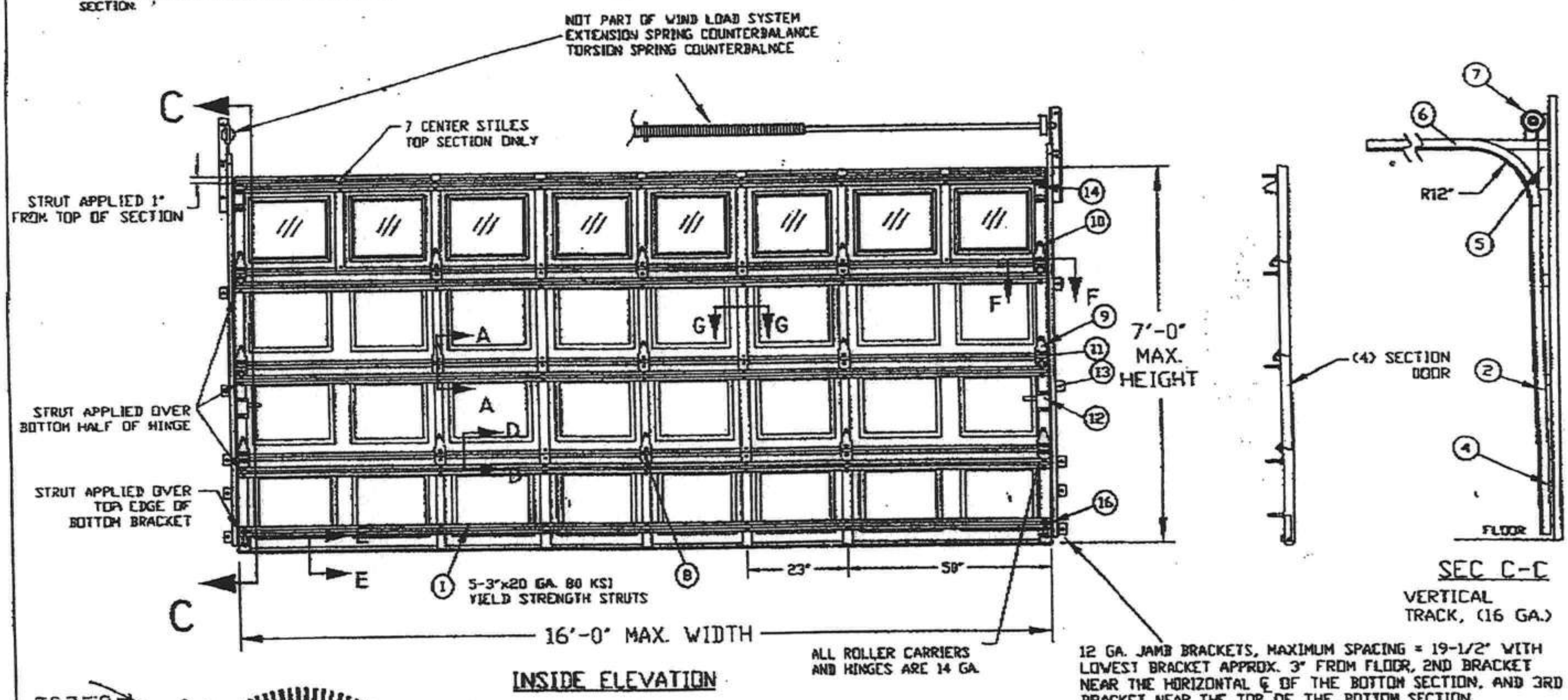
P/N 909464 REV # 2/00

REV.	DATE	BY	DESCRIPTION
A - A	11-10-00	DW	SEE E.C.N. 831

NOTES:

1. TESTED TO POSITIVE AND NEGATIVE 20 PSF DESIGN AND POSITIVE AND NEGATIVE 30 PSF TEST PRESSURES PER ASTM E-330
2. MAXIMUM SECTION HEIGHT= 21"
3. SECTION HEIGHTS OF 21.00" AND 19.50" ARE AVAILABLE AND MAY BE USED IN ANY COMBINATION TO ACHIEVE VARIOUS DOOR HEIGHTS.
4. WINDOWS MAY BE INSTALLED IN THE TOP SECTION (AS TESTED WITH 1/8" DSB GLASS OR EQUIVALENT) OR IN THE SECTION IMMEDIATELY BELOW THE TOP SECTION.
5. MINIMUM LENGTH OF ROLLER STEM IS 5¼" (7" AS TESTED)
6. THE STRUT PLACEMENT ON DOOR MUST BE CONSISTENT WITH THE DOOR SHOWN.
7. STRUTS SECURED AT ALL LOCATIONS WITH TEK SCREWS.
8. QUANTITY OF SIDE LOCKS CAN BE 0,1, OR 2 AS TESTED.
9. (A) DROP IN TYPE OF INSULATION IS OPTIONAL



INSIDE ELEVATION

SEC C-C
VERTICAL TRACK, (16 GA.)

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

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.

LISTED
SBCCI
PST & ESI
REPORT No. 2202

TEST REPORTS ON FILE VIDEO 10/19/00 (00293)

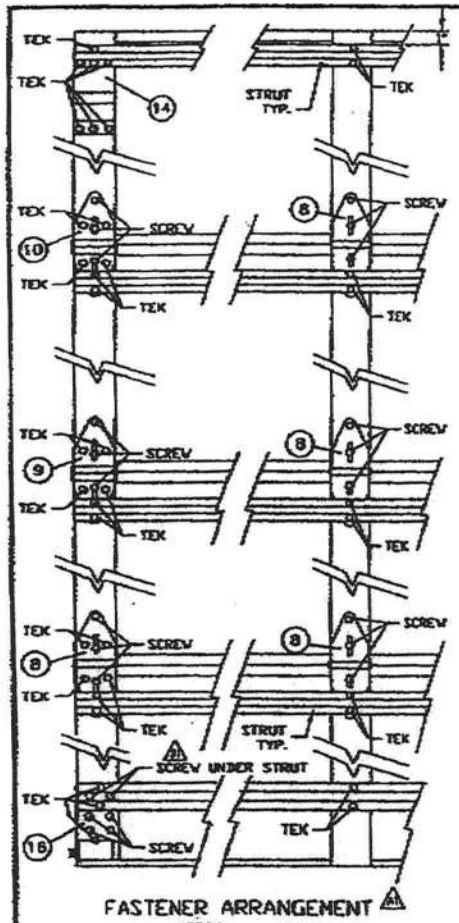
DESIGN LOAD +20.0 PSF & -20.0 PSF
TEST LOAD +30.0 PSF & -30.0 PSF

GADCO DOORS
SERIES 7400, EXTERIOR STEEL =.017 MIN (AS TESTED)
SERIES 7825, EXTERIOR STEEL =.019" MIN (A)
SERIES 7524, EXTERIOR STEEL =.024" MIN (A)
(TESTED) WITH WINDOWS

MAXIMUM DOOR WIDTH	MAXIMUM DOOR HEIGHT	TYPICAL CTR. STILE SPACING	STRUTS 80 KSI SIZE	STRUTS 80 KSI QTY.	VERTICAL TRACK
16'	7'	23"	3"	5	2 IN.

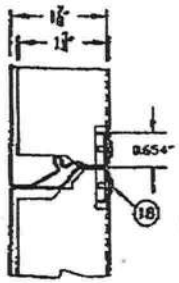
GADCO GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: 105	APPROVED BY:	DRAWN BY: R. VIEDMAN
DATE: 10-20-00		REVISED: (A) 11-10-00
DESCRIPTION: 16' X 7' MAX. RAISED PANEL STEEL DOOR -WINDLOAD ±20 PSF		
PART NUMBER:	PAGE 1 OF 2	DRAWING NUMBER: W13220-1

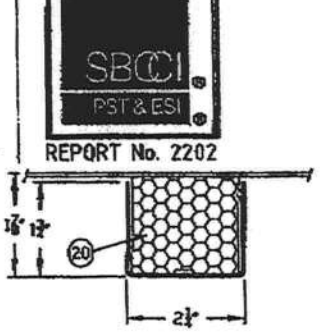


FASTENER ARRANGEMENT

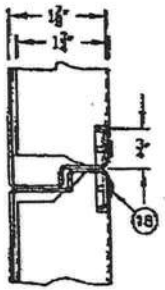
LISTED
SBCCI PST&ESI
REPORT No. 2202



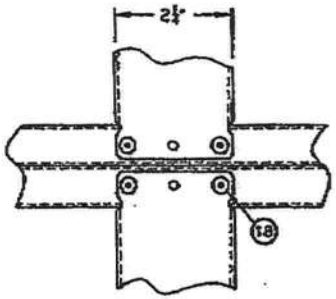
SEC D-D
PAN ATTACHMENT TO STILE (OPTIONAL)



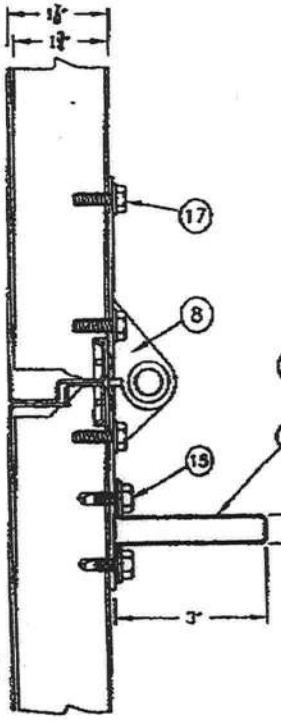
SEC G-G
CENTER STILE
20 GA. GALVANIZED



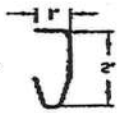
SEC D-D
PAN ATTACHMENT TO STILE (AS TESTED)



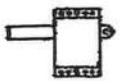
PAN ATTACHMENT TO STILE



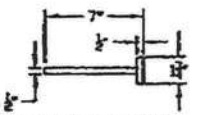
SEC A-A



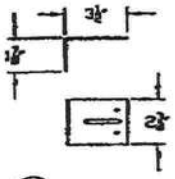
TRACK
16 GA. COSS MIN.



(12) SIDE LOCK



(11) ROLLER 10 BALLS



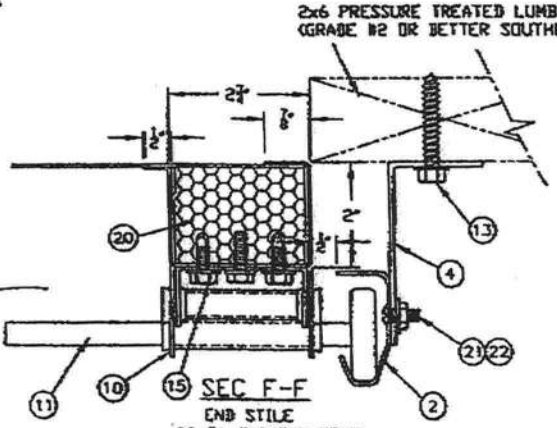
(4) #6 JAMB BRACKET

(1) 5-3"x20 GA. 80 KSI YIELD STRENGTH HEMMED STRUT APPLIED WITH 2 TEK SCREWS PER HINGE OR STILE LOCATION (14 PER STRUT, MINIMUM)

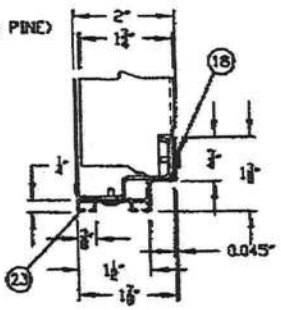
(17) 1/4-20 x 3/4 HEX WASHERHEAD SCREW

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

ITEM	PART NO.	DESCRIPTION
23	3485	BOTTOM RAIL, 6063 T6 ALUM EXT.
22	1391	1/4"-20 X 5/8" RIBBED NECK SCREW
21	4944	1/4"-20 SERRATED FLANGE NUT
20		1.0 DENSITY FILLER BLOCK EPS
19		
18	4385	POP RIVET, 5/32" STEEL
17	4229	HEX WASHERHEAD SCREW 1/4"-20 X 3/4"
16	3399LHR	BOTTOM ROLLER BRACKET
15	0138	HWH TEK SCREW 1/4-20 X 3/4 W/ REDUCED PT.
14	3875	TOP SUPPORT BRACKET
13	4848	5/16" X 1-5/8" LAG SCREW
12	4718	SIDE LOCK
11	4305	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



SEC F-F
END STILE
20 GA. PAINTED STEEL



SEC E-E

NORTH CAROLINA PROFESSIONAL SEAL PE No. 024280 ENGINEER

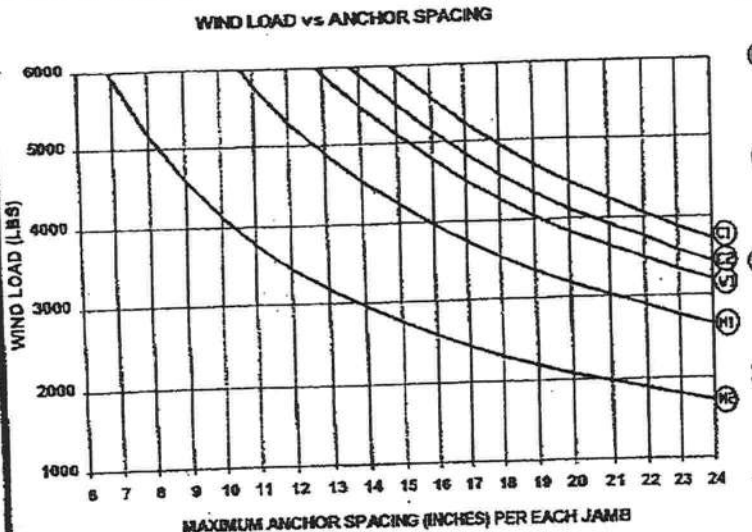
The seal on this drawing only certifies that the product(s) illustrated and described herein represent the configuration(s), dimensions and installation(s) of the door as tested.

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

SCALE: NONE | APPROVED BY: | DRAWN BY: B. WIDMAN
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: W13220-2



C1 CONCRETE BACKUP HILTI KWIK BOLT II EXPANSION ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

C2 CONCRETE BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-5/8" EMBEDMENT

M1 MASONRY/CMU BACKUP RAWL LOK/BOLT SLEEVE ANCHOR 3/8" DIA. 1-3/8" EMBEDMENT

M2 MASONRY/CMU BACKUP ITW BUILDEX TAPCON MASONRY ANCHOR 1/4" DIA. 1-3/4" EMBEDMENT

W1 WOOD STUD BACKUP LAG SCREWS 5/16" DIA. 1-1/2" EMBEDMENT

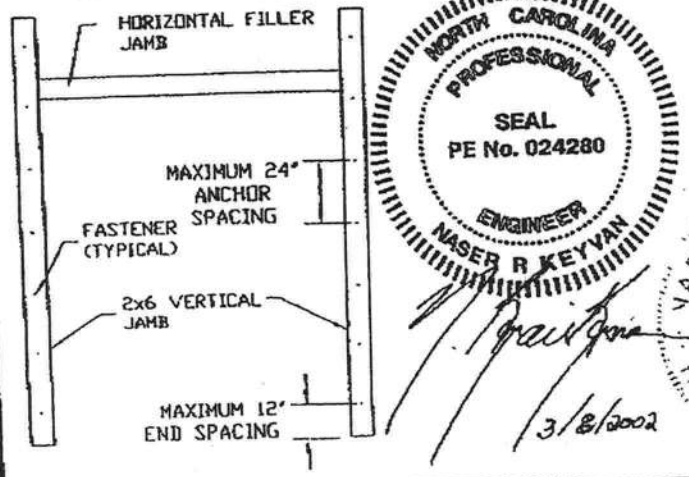
DESIGN LOAD $\frac{(LBS)}{FT^2}$ X GARAGE DOOR AREA(WIDTH-FT X HEIGHT-FT) = WIND LOAD(LBS)

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



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®

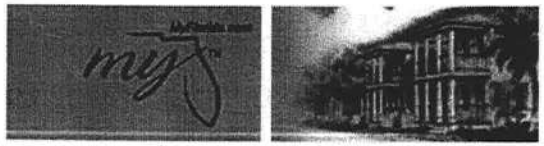
GENERAL AMERICAN DOOR COMPANY
5050 BASELINE ROAD
MONTGOMERY, IL 60538

SCALE: NONE	APPROVED BY:	DRAWN BY: DV
DATE: 8-30-99		REVISED:

DESCRIPTION: JAMB TO STRUCTURE ATTACHMENT FOR WIND LOADED GARAGE DOORS

MASTER DRAWING NUMBER: A10560 DRAWING NUMBER:

FLORIDA DEPARTMENT OF Community Affairs



Product Approval
USER: Public User

FL #	FL1956-R1
Application Type	Revision
Code Version	2004
Application Status	Approved
Comments	
Archived	

Product Manufacturer	TAMKO Building Products, Inc.
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 ext 2394 fred_oconnor@tamko.com
Authorized Signature	Frederick O'Connor fred_oconnor@tamko.com
Technical Representative	Frederick J. O'Connor
Address/Phone/Email	PO Box 1404 Joplin, MO 64802 (800) 641-4691 fred_oconnor@tamko.com

Quality Assurance Representative Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Certification Mark or Listing
Certification Agency	Underwriters Laboratories Inc.

Referenced Standard and Year (of Standard)	**Standard**	**Year**
	ASTM D 3462	2001

Equivalence of Product Standards Certified By	
Product Approval Method	Method 1 Option A
Date Submitted	06/09/2005
Date Validated	06/20/2005
Date Pending FBC Approval	06/25/2005
Date Approved	06/29/2005

Summary of Products

FL #	Model, Number or Name	Description

3

slopes of 2:12 or greater. Not approved for use in HVHZ.	

Back Next

DCA Administration
Department of Community Affairs
Florida Building Code Online
Codes and Standards
2555 Shumard Oak Boulevard
Tallahassee, Florida 32399-2100
(850) 487-1824, Suncom 277-1824, Fax (850) 414-8436

Product Approval Accepts:

4

Underwriters Laboratories Inc.®

Northbrook Division
333 Pfingsten Road
Northbrook, IL 60062-2096 USA
www.ul.com
tel: 1 847 272 8800

June 17, 2005

Tamko Roofing Products
Ms. Kerri Eden
P.O. Box 1404
220 W. 4th Street
Joplin, MO 64802-1404

Our Reference: R2919

This is to confirm that "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage 50 AR", "Glass-Seal AR" manufactured at Tuscaloosa, AL and "Elite Glass-Seal AR", "Heritage 30 AR", "Heritage XL AR", "Heritage 50 AR" manufactured at Frederick, MD and "Heritage 30 AR", "Heritage XL AR", and "Heritage 50 AR" manufactured in Dallas, TX are UL Listed asphalt glass mat shingles and have been evaluated in accordance with ANSI/UL 790, Class A (ASTM E108), ASTM D3462, ASTM D3161 or UL 997 modified to 110 mph when secured with four nails.

Let me know if you have any further questions.

Very truly yours,

Alpesh Patel (Ext. 42522)
Engineer Project
Fire Protection Division

Reviewed by,

Randall K. Laymon (Ext. 42687)
Engineer Sr Staff
Fire Protection Division

4

TAMKO BUILDING PRODUCTS

Application Instructions for

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

THESE ARE THE MANUFACTURER'S APPLICATION INSTRUCTIONS FOR THE ROOFING CONDITIONS DESCRIBED. TAMKO BUILDING 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.

I. 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.

TAMKO does not recommend re-roofing over existing roof.

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. FASTENERS

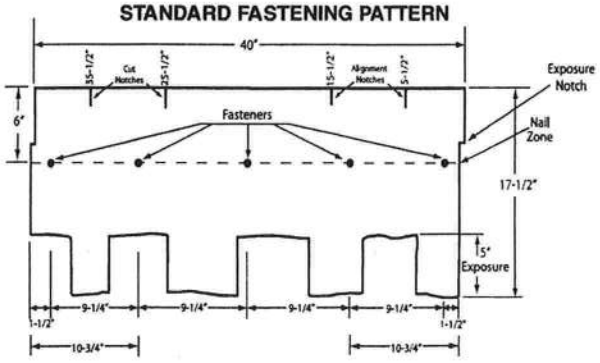
WIND CAUTION: Extreme wind velocities can damage these shingles after application when proper sealing of the shingles does not occur. This can especially be a problem if the shingles are applied in cooler months or in areas on the roof that do not receive direct sunlight. These conditions may impede 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, this will result in the termination of TAMKO's liabilities under the limited warranty. TAMKO will not be responsible for damage to shingles caused by winds in excess of the applicable miles per hour as stated in the limited warranty. See limited warranty for details.

FASTENING PATTERNS: Fasteners must be placed 6 in. from the top edge of the shingle located horizontally as follows:

1) Standard Fastening Pattern. (For use on decks with slopes 2 in. per foot to 21 in. per foot.) One fastener 1-1/2 in. back from each end, one 10-3/4 in. back from each end and one 20 in. from one end of the shingle for a total of 5 fasteners. (See standard fastening pattern illustrated below).

STANDARD FASTENING PATTERN



2) Mansard or Steep Slope Fastening Pattern. (For use on decks with slopes greater than 21 in. per foot.) Use standard nailing instructions with four additional nails placed 6 in. from the butt edge of the shingle making certain nails are covered by the next (successive) course of shingles.

(Continued)

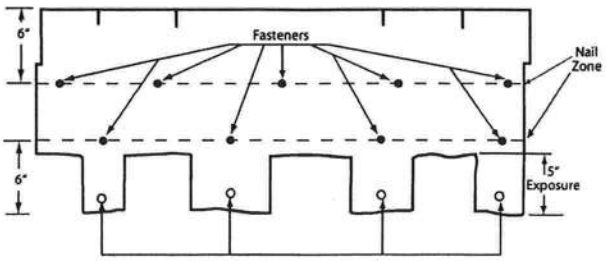
TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 1)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

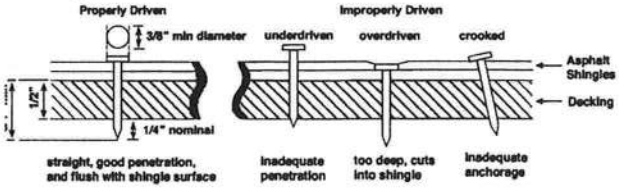
Each shingle tab must be sealed underneath with quick setting asphalt adhesive cement immediately upon installation. Spots of cement must be equivalent in size to a $.25 piece and applied to shingles with a 5 in. exposure, use 9 fasteners per shingle.

MANSARD FASTENING PATTERN



Apply under each tab 1" diameter asphalt adhesive cement.

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. into the roof deck. Where the deck is less than 3/4 in. thick, the nails should be long enough to penetrate completely through plywood decking and extend at least 1/8 in. through the roof deck. Drive nail head flush with the shingle surface.



4. UNDERLAYMENT

UNDERLAYMENT: An underlayment consisting of asphalt saturated felt must be applied over the entire deck before the installation of TAMKO shingles. Failure to add underlayment can cause premature failure of the shingles and leaks which are not covered by TAMKO's limited warranty. Apply the felt when the deck is dry. On roof decks 4 in. per foot and greater apply the felt parallel to the eaves lapping each course of the felt over the lower course at least 2 in. Where ends join, lap the felt 4 in. If left exposed, the underlayment felt may be adversely affected by moisture and weathering. Laying of the underlayment and the shingle application must be done together.

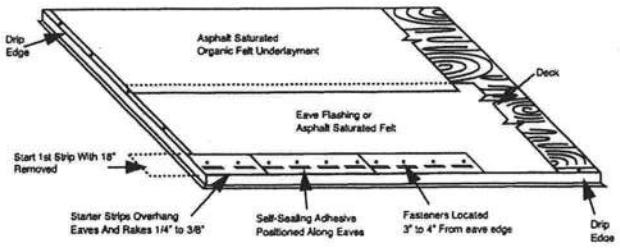
Products which are acceptable for use as underlayment are:

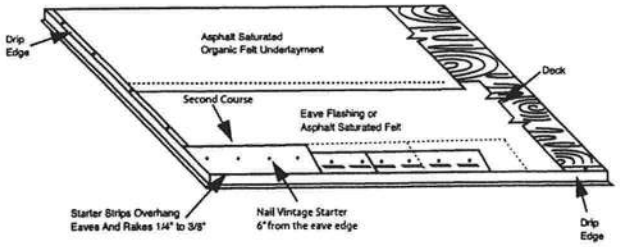
- TAMKO No. 15 Asphalt Saturated Organic Felt
- A non-perforated asphalt saturated organic felt which meets ASTM: D226, Type I or ASTM D4869, Type I
- Any TAMKO non-perforated asphalt saturated organic felt
- TAMKO TW Metal and Tile Underlayment, TW Underlayment and Moisture Guard Plus® (additional ventilation maybe required. Contact TAMKO's technical services department for more information)

In areas where ice builds up along the eaves or a back-up of water from frozen or clogged gutters is a potential problem, TAMKO's Moisture Guard Plus® waterproofing underlayment (or any specialty eaves flashing product) may be applied to eaves, rakes, ridges, valleys, around chimneys, skylights or dormers to help prevent water damage. Contact TAMKO's Technical Services Department for more information.
TAMKO does not recommend the use of any substitute products as shingle underlayment.

5. APPLICATION INSTRUCTIONS

STARTER COURSE: Two starter course layers must be applied prior to application of Heritage Vintage AR Shingles.
The first starter course may consist of TAMKO Shingle Starter, three tab self-sealing type shingles or a 9 inch wide strip of mineral surface roll roofing. If three tab self-sealing shingles are used, remove the exposed tab portion and install with the factory applied adhesive adjacent to the eaves. If using three tab self-sealing shingles or shingle starter, remove 18 in. from first shingle to offset the end joints of the Vintage Starter. Attach the first starter course with approved fasteners along a line parallel to and 3 in. to 4 in. above the eave edge. The starter course should overhang both the eave and rake edge 1/4 in. to 3/8 in. Over the first starter course, install Heritage Vintage Starter AR and begin at the left rake edge with a full size shingle and continue across the roof nailing the Heritage Vintage Starter AR along a line parallel to and 6 in. from the eave edge.





Note: Do not allow Vintage Starter AR joints to be visible between shingle tabs. Cutting of the starter may be required.

HERITAGE VINTAGE STARTER AR
12 1/2" x 36" 20 PIECES PER BUNDLE
60 LINEAL FT. PER BUNDLE

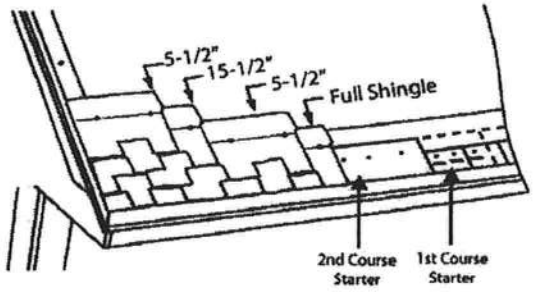
(Continued)

TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 2)

• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

SHINGLE APPLICATION: Start the first course at the left rake edge with a full size shingle and overhang the rake edge 1/4 in. to 3/8 in.. To begin the second course, align the right side of the shingle with the 5-1/2 in. alignment notch on the first course shingle making sure to align the exposure notch. (See shingle illustration on next page) Cut the appropriate amount from the rake edge so the overhang is 1/4" to 3/8". For the third course, align the shingle with the 15-1/2 in. alignment notch at the top of the second course shingle, again being sure to align the exposure notch. Cut the appropriate amount from the rake edge. To begin the fourth course, align the shingle with the 5-1/2 in. alignment notch from the third course shingle while aligning the exposure notch. Cut the appropriate amount from the rake edge. Continue up the rake in as many rows as necessary using the same formula as outlined above. Cut pieces may be used to complete courses at the right side. As you work across the roof, install full size shingles taking care to align the exposure notches. Shingle joints should be no closer than 4 in.



6. LOW SLOPE APPLICATION
On pitches 2 in. per foot to 4 in. per foot cover the deck with two layers of underlayment. Begin by applying the underlayment in a 19 in. wide strip along the eaves and overhanging the drip edge by 1/4 to 3/4 in. Place a full 36 in. wide sheet over the 19 in. wide starter piece, completely overlapping it. All succeeding courses will be positioned to overlap the preceding course by 19 in. If winter temperatures average 25°F or less, thoroughly cement the laps of the entire underlayment to each other with plastic cement from eaves and rakes to a point of a least 24 in. inside the interior wall line of the building. As an alternative, TAMKO's Moisture Guard Plus self-adhering waterproofing underlayment may be used in lieu of the cemented felts.

7. VALLEY APPLICATION
TAMKO recommends an open valley construction with Heritage Vintage AR shingles.

To begin, center a sheet of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment in the valley.

After the underlayment has been secured, install the recommended corrosion resistant metal (26 gauge galvanized metal or an equivalent) in the valley. Secure the valley metal to the roof deck. Overlaps should be 12" and cemented.

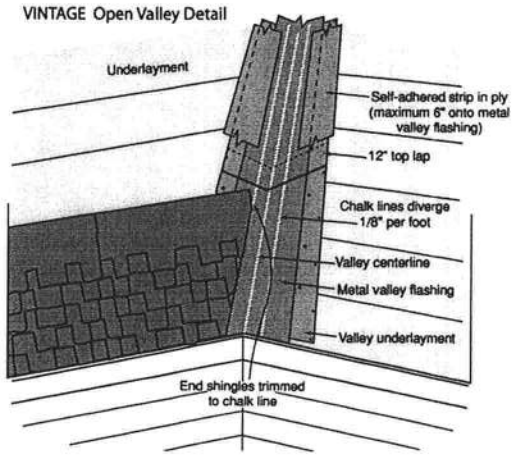
Following valley metal application; a 9" to 12" wide strip of TAMKO Moisture Guard Plus, TW Underlayment or TW Metal & Tile Underlayment should be applied along the edges of the metal valley flashing (max. 6" onto metal valley flashing) and on top of the valley underlayment. The valley will be completed with shingle application.

SHINGLE APPLICATION INSTRUCTIONS (OPEN VALLEY)
- Snap two chalk lines, one on each side of the valley centerline over the full length of the valley flashing. Locate the upper ends of the chalk lines 3" to either side of the valley centerline.
- The lower end should diverge from each other by 1/8" per foot. Thus, for an 8' long valley, the chalk lines should be 7" either side of the centerline at the eaves and for a 16' valley 8".

As shingles are applied toward the valley, trim the last shingle in each course to fit on the chalk line. Never use a shingle trimmed to less than 12" in length to finish a course running into a valley. If necessary, trim the adjacent shingle in the course to allow a longer portion to be used.

- Clip 1" from the upper corner of each shingle on a 45° angle to direct water into the valley and prevent it from penetrating between the courses.

- Form a tight seal by cementing the shingle to the valley lining with a 3" width of asphalt plastic cement (conforming to ASTM D 4586).



• **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)

TAMKO BUILDING PRODUCTS

(CONTINUED from Pg. 3)

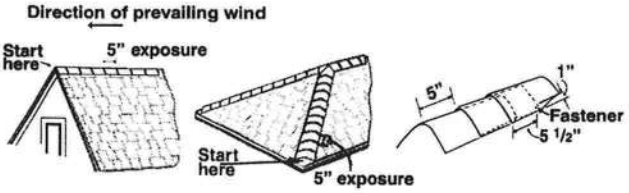
• HERITAGE® VINTAGE™ AR – Phillipsburg, KS
LAMINATED ASPHALT SHINGLES

8. 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 on each side, 5-1/2 in. back from the exposed end and 1 in. up from the edge. TAMKO recommends the use of TAMKO Heritage Vintage Hip & Ridge shingle products.

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

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



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

COLUMBIA COUNTY BUILDING DEPARTMENT
RESIDENTIAL MINIMUM PLAN REQUIREMENTS AND CHECKLIST
FOR THE FLORIDA RESIDENTIAL BUILDING CODE 2004 with 2005 & 2006 Supplements and One (1) and Two (2) Family Dwellings

ALL REQUIREMENTS ARE SUBJECT TO CHANGE

ALL BUILDING PLANS MUST INDICATE COMPLIANCE with the Current FLORIDA BUILDING CODES and the Current FLORIDA RESIDENTIAL CODE. ALL PLANS OR DRAWING SHALL PROVIDED 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 SPEEDS ARE PER FIGURE R301.2(4) of the Residential Code (Florida Wind speed map) **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

GENERAL REQUIREMENTS;

- Two (2) complete sets of plans containing the following:
- All drawings must be clear, concise and drawn to scale, details that are not used shall be marked void
- Condition space (Sq. Ft.) and total (Sq. Ft.) under roof shall be shown on the plans.
- Designers name and signature shall be on all documents and a licensed architect or engineer, signature and official embossed seal shall be affixed to the plans and documents per FBC 106.1.

Site Plan information including:

- Dimensions of lot or parcel of land
- Dimensions of all building set backs
- Location of all other structures (include square footage of structures) on parcel, existing or proposed well and septic tank and all utility easements.
- Provide a full legal description of property.

Wind-load Engineering Summary, calculations and any details required:

- Plans or specifications must meet state compliance with FRC Chapter 3
- The following information must be shown as per section FRC
- Basic wind speed (3-second gust), miles per hour
- Wind importance factor and nature of occupancy
- Wind exposure – if more than one wind exposure is used, the wind exposure and applicable wind direction shall be indicated
- The applicable internal pressure coefficient, 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.

Elevations Drawing including:

- All side views of the structure
- Roof pitch
- Overhang dimensions and detail with attic ventilation
- Location, size and height above roof of chimneys
- Location and size of skylights with Florida Product Approval
- Number of stories
- e) Building height from the established grade to the roofs highest peak

Floor Plan including:

- Dimensioned area plan showing rooms, attached garage, breeze ways, covered porches, deck, balconies and raised floor surfaces located more than 30 inches above the floor or grade
- All exterior and interior shear walls indicated
- Shear wall opening shown (Windows, Doors and Garage doors
- Emergency escape and rescue opening in each bedroom (net clear opening shown)
- Safety glazing of glass where needed
- Fireplaces types (gas appliance) (vented or non-vented) or wood burning with Hearth (see chapter 10 of FRC)
- Stairs with dimensions (width, tread and riser and total run) details of guardrails, Handrails (see FRC 311)
- Plans must show and identify accessibility of bathroom (see FRC 322)

All materials placed within opening or onto/into exterior shear walls, soffits or roofs shall have Florida product approval number and mfg. installation information submitted with the plans (see Florida product approval form)

Foundation Plans Per FRC 403:

- a) Location of all load-bearing walls footings indicated as standard, monolithic, dimensions, size and type of reinforcing.
- b) All posts and/or column footing including size and reinforcing
- c) Any special support required by soil analysis such as piling.
- d) Assumed load-bearing valve of soil_____ (psf)
- e) Location of horizontal and vertical steel, for foundation or walls (include # size and type)

CONCRETE SLAB ON GRADE Per FRC R506

- Show Vapor retarder (6mil. Polyethylene with joints lapped 6 inches and sealed)
- Show control joints, synthetic fiber reinforcement or welded fire fabric reinforcement and Supports

PROTECTION AGAINST TERMITES Per FRC 320:

- Indicate on the foundation plan if soil treatment is used for subterranean termite prevention or submit other approved termite protection methods. Protection shall be provided by registered termiticides

Masonry Walls and Stem walls (load bearing & shear Walls) FRC Section R606

- Show all materials making up walls, wall height, and Block size, mortar type
- Show all Lintel sizes, type, spans and tie-beam sizes and spacing of reinforcement

Metal frame shear wall and roof systems shall be designed, signed and sealed by Florida Prof. Engineer or Architect

Floor Framing System: First and/or second story

- Floor truss package shall including layout and details, signed and sealed by Florida Registered Professional Engineer
- Show conventional floor joist type, size, span, spacing and attachment to load bearing walls, stem walls and/or priers
- Girder type, size and spacing to load bearing walls, stem wall and/or priers
- Attachment of joist to girder
- Wind load requirements where applicable
- Show required under-floor crawl space
- Show required amount of ventilation opening for under-floor spaces
- Show required covering of ventilation opening.
- Show the required access opening to access to under-floor spaces
- Show the sub-floor structural panel sheathing type, thickness and fastener schedule on the edges & intermediate of the areas structural panel sheathing
- Show Draft stopping, Fire caulking and Fire blocking
- Show fireproofing requirements for garages attached to living spaces, per FRC section R309
- Provide live and dead load rating of floor framing systems (psf).

WOOD WALL FRAMING CONSTRUCTION FRC CHAPTER 6

- Stud type, grade, size, wall height and oc spacing for all load bearing or shear walls.
- Fastener schedule for structural members per table R602.3 (1) are to be shown.
- Show wood structural panel's sheathing attachment to studs, joist, trusses, rafters and structural members, showing fastener schedule attachment on the edges & intermediate of the areas structural panel sheathing
- Show all required connectors with a max uplift rating and required number of connectors and oc spacing for continuous connection of structural walls to foundation and roof trusses or rafter systems.
- Show sizes, type, span lengths and required number of support jack studs, king studs for shear wall opening and girder or header per FRC Table R502.5 (1)
- Indicate where pressure treated wood will be placed.
- Show all wall structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing edges & intermediate areas
- A detail showing gable truss bracing, wall balloon framing details or/ and wall hinge bracing detail

ROOF SYSTEMS:

- Truss design drawing shall meet section FRC R802.10 Wood trusses. Include a layout and truss details and be signed and sealed by Fl. Pro. Eng.
- Show types of connector's assemblies' and resistance uplift rating for all trusses and rafters
- Show gable ends with rake beams showing reinforcement or gable truss and wall bracing details
- Provide dead load rating of trusses

Conventional Roof Framing Layout Per FRC 802:

- Rafter and ridge beams sizes, span, species and spacing
- Connectors to wall assemblies' include assemblies' resistance to uplift rating.
- Valley framing and support details
- Provide dead load rating of rafter system.

ROOF SHEATHING FRC Table R602,3(2) FRC 803

- Include all materials which will make up the roof decking, identification of structural panel sheathing, grade, thickness and show fastener schedule for structural panel sheathing on the edges & intermediate areas

ROOF ASSEMBLIES FRC Chapter 9

- Include all materials which will make up the roof assembles covering; with Florida Product Approval numbers for each component of the roof assembles covering.

FCB Chapter 13 Florida Energy Efficiency Code for Building Construction

- Residential construction shall comply with this code by using the following compliance methods in the FBC Subchapter 13-6, Residential buildings compliance methods. Two of the required forms are to be submitted, showing dimensions condition area equal to the total condition living space area
- Show the insulation R value for the following areas of the structure: Attic space, Exterior wall cavity and Crawl space (if applicable)

HVAC information shown

- Manual J sizing equipment or equivalent computation
- Exhaust fans locations in bathrooms

Plumbing Fixture layout shown

- All fixtures waste water lines shall be shown on the foundation plan

Electrical layout shown including:

- Switches, outlets/receptacles, lighting and all required GFCI outlets identified
- Ceiling fans
- Smoke detectors
- Service panel, sub-panel, location(s) and total ampere ratings

- On the electrical plans identify the electrical service overcurrent protection device for the main electrical service. This device shall be installed on the exterior of structures to serve as a disconnecting means for the utility company electrical service. Conductors used from the exterior disconnecting means to a panel or sub panel shall have four-wire conductors, of which one conductor shall be used as an equipment ground. Indicate if the utility company service entrance cable will be of the overhead or underground type.
- Appliances and HVAC equipment and disconnects
- Arc Fault Circuits (AFCI) in bedrooms

- Notarized Disclosure Statement for Owner Builders

- Notice of Commencement Recorded (in the Columbia County Clerk Office) Notice Of Commencement is required to be filed with the building department Before Any Inspections Will Be Done.

Private Potable Water

- Size of pump motor
- Size of pressure tank
- Cycle stop valve if used

THE FOLLOWING ITEMS MUST BE SUBMITTED WITH BUILDING PLANS

- Building Permit Application: A current Building Permit Application form is to be completed and submitted for all residential projects.

- Parcel Number: The parcel number (Tax ID number) from the Property Appraiser (386) 758-1084 is required. A copy of property deed is also requested.

- Environmental Health Permit or Sewer Tap Approval: A copy of the Environmental Health permit, existing septic approval or sewer tap approval is required before a building permit can be issued. (386) 758-1058 (Toilet facilities shall be provided for construction workers)

- City Approval: If the project is to be located within the city limits of the Town of Fort White, prior approval is required. The Town of Fort White approval letter is required to be submitted by the owner or contractor to this office when applying for a Building Permit. (386) 497-2321

- Flood Information: All projects within the Floodway of the Suwannee or Santa Fe Rivers shall require permitting through the Suwannee River Water Management District, before submitting application to this office. Any project located within a flood zone where the base flood elevation (100 year flood) has been established shall meet the requirements of Section 8.8 of the Columbia County Land Development Regulations. Any project located within a flood zone where the base flood elevation has not been established (Zone A) shall meet the requirements of Section 8.7 of the Columbia County Land Development Regulations. CERTIFIED FINISHED FLOOR ELEVATIONS WILL BE REQUIRED ON ANY PROJECT WHERE THE BASE FLOOD ELEVATION (100 YEAR FLOOD) HAS BEEN ESTABLISHED. A development permit will also be required. The permit cost is $50.00.

- Driveway Connection: If the property does not have an existing access to a public road, then an application for a culvert permit ($25.00) must be made. If the applicant feels that a culvert is not needed, they may apply for a culvert waiver ($50.00). All culvert waivers are sent to the Columbia County Public Works Department for approval or denial.

- 911 Address: If the project is located in an area where the 911 address has been issued, then the proper Paper work from the 911 Addressing Departments must be submitted. (386) 758-1125

ALL REQUIRED INFORMATION IS TO BE SUBMITTED FOR REVIEW. NOTIFICATION WILL BE GIVEN WHEN THE APPLICATION AND PLANS ARE APPROVED AND READY TO PERMIT.

Residential System Sizing Calculation

Summary

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

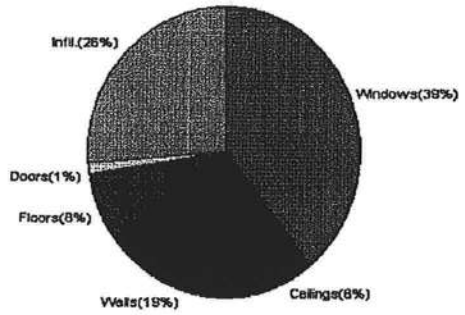
1/14/2008

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	**39099**	**Btuh**	**Total cooling load calculation**	**59204**	**Btuh**
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh
Total (Electric Heat Pump)	138.1	54000	Sensible (SHR = 0.75)	81.6	40500
Heat Pump + Auxiliary(0.0kW)	138.1	54000	Latent	140.7	13500
			Total (Electric Heat Pump)	91.2	54000

WINTER CALCULATIONS

Winter Heating Load (for 2156 sqft)

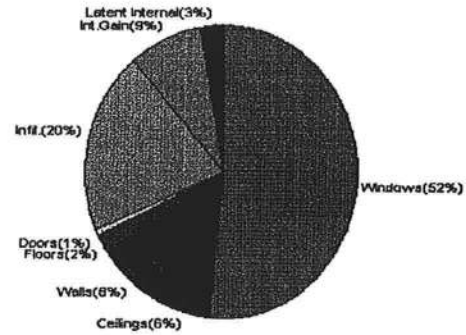
Load component			Load	
Window total	477	sqft	15365	Btuh
Wall total	2310	sqft	7585	Btuh
Door total	38	sqft	492	Btuh
Ceiling total	2156	sqft	2541	Btuh
Floor total	See detail report		2991	Btuh
Infiltration	250	cfm	10124	Btuh
Duct loss			0	Btuh
Subtotal			**39099**	**Btuh**
Ventilation	0	cfm	0	Btuh
TOTAL HEAT LOSS			**39099**	**Btuh**



SUMMER CALCULATIONS

Summer Cooling Load (for 2156 sqft)

Load component			Load	
Window total	477	sqft	30612	Btuh
Wall total	2310	sqft	4636	Btuh
Door total	38	sqft	372	Btuh
Ceiling total	2156	sqft	3570	Btuh
Floor total			1311	Btuh
Infiltration	219	cfm	4070	Btuh
Internal gain			5040	Btuh
Duct gain			0	Btuh
Sens. Ventilation	0	cfm	0	Btuh
Total sensible gain			**49612**	**Btuh**
Latent gain(ducts)			0	Btuh
Latent gain(infiltration)			7993	Btuh
Latent gain(ventilation)			0	Btuh
Latent gain(internal/occupants/other)			1600	Btuh
Total latent gain			**9593**	**Btuh**
TOTAL HEAT GAIN			**59204**	**Btuh**



Version 8
For Florida residences only

EnergyGauge® System Sizing
PREPARED BY: _____
DATE: 1-14-08

System Sizing Calculations - Winter

Residential Load - Whole House Component Details

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

1/14/2008

Component Loads for Whole House

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
5	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	N	3.0	32.2	97 Btuh
10	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
11	2, Clear, Metal, 0.87	E	8.0	32.2	258 Btuh
12	2, Clear, Metal, 0.87	E	21.0	32.2	676 Btuh
13	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
14	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
15	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
16	2, Clear, Metal, 0.87	W	32.0	32.2	1030 Btuh
17	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
18	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
19	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
20	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
21	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
22	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
	Window Total		477(sqft)		15365 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	690	3.3	2266 Btuh
2	Frame - Wood - Ext(0.09)	13.0	1305	3.3	4285 Btuh
3	Frame - Wood - Adj(0.09)	13.0	315	3.3	1034 Btuh
	Wall Total		2310		7585 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2156	1.2	2541 Btuh
	Ceiling Total		2156		2541Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Stem Wall with Stem Wall I	19	1498.0 sqft	1.4	2118 Btuh
2	Raised Wood - Adj	30	658.0 sqft	1.3	873 Btuh
	Floor Total		2156		2991 Btuh
			Envelope Subtotal:		28974 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

Infiltration	Type Natural	ACH X 0.80	Volume(cuft) 18746	walls(sqft) 2310	CFM= 249.9	10124 Btuh
Ductload					(DLM of 0.000)	0 Btuh
All Zones				**Sensible Subtotal All Zones**		**39099 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible Ventilation Sensible Total Btuh Loss	39099 Btuh 0 Btuh 39099 Btuh

EQUIPMENT

1. Electric Heat Pump	#	54000 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)

Version 8
For Florida residences only

System Sizing Calculations - Winter

Residential Load - Room by Room Component Details

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

Reference City: Gainesville (Defaults) Winter Temperature Difference: 37.0 F

1/14/2008

Component Loads for Zone #1: 1st Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
1	2, Clear, Metal, 0.87	W	24.0	32.2	773 Btuh
2	2, Clear, Metal, 0.87	W	40.0	32.2	1288 Btuh
3	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
4	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
5	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
6	2, Clear, Metal, 0.87	W	30.0	32.2	966 Btuh
7	2, Clear, Metal, 0.87	N	20.0	32.2	644 Btuh
8	2, Clear, Metal, 0.87	N	16.0	32.2	515 Btuh
9	2, Clear, Metal, 0.87	N	3.0	32.2	97 Btuh
10	2, Clear, Metal, 0.87	E	18.0	32.2	579 Btuh
11	2, Clear, Metal, 0.87	E	8.0	32.2	258 Btuh
12	2, Clear, Metal, 0.87	E	21.0	32.2	676 Btuh
13	2, Clear, Metal, 0.87	E	13.3	32.2	429 Btuh
14	2, Clear, Metal, 0.87	E	30.0	32.2	966 Btuh
15	2, Clear, Metal, 0.87	S	6.0	32.2	193 Btuh
	Window Total		295(sqft)		9507 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
2	Frame - Wood - Ext(0.09)	13.0	1305	3.3	4285 Btuh
3	Frame - Wood - Adj(0.09)	13.0	315	3.3	1034 Btuh
	Wall Total		1620		5319 Btuh
Doors	Type		Area X	HTM=	Load
1	Insulated - Exterior		20	12.9	259 Btuh
2	Insulated - Adjacent		18	12.9	233 Btuh
	Door Total		38		492Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1	Stem Wall with Stem Wall I	19	1498.0 sqft	1.4	2118 Btuh
	Floor Total		1498		2118 Btuh
			Zone Envelope Subtotal:		17436 Btuh
Infiltration	Type	ACH X	Volume(cuft)	walls(sqft) CFM=	
	Natural	0.80	13482	1620 175.3	7100 Btuh
Ductload	Pro. leak free, Supply(R6.0-Cond.), Return(R6.0-Cond) (DLM of 0.000)				0 Btuh
Zone #1			**Sensible Zone Subtotal**		**24536 Btuh**

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

Component Loads for Zone #2: 2nd Floor

Window	Panes/SHGC/Frame/U	Orientation	Area(sqft) X	HTM=	Load
16	2, Clear, Metal, 0.87	W	32.0	32.2	1030 Btuh
17	2, Clear, Metal, 0.87	W	20.0	32.2	644 Btuh
18	2, Clear, Metal, 0.87	S	15.0	32.2	483 Btuh
19	2, Clear, Metal, 0.87	W	36.0	32.2	1159 Btuh
20	2, Clear, Metal, 0.87	N	15.0	32.2	483 Btuh
21	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
22	2, Clear, Metal, 0.87	E	32.0	32.2	1030 Btuh
	Window Total		182(sqft)		5859 Btuh
Walls	Type	R-Value	Area X	HTM=	Load
1	Frame - Wood - Ext(0.09)	13.0	690	3.3	2266 Btuh
	Wall Total		690		2266 Btuh
Ceilings	Type/Color/Surface	R-Value	Area X	HTM=	Load
1	Vented Attic/D/Shin	30.0	2156	1.2	2541 Btuh
	Ceiling Total		2156		2541Btuh
Floors	Type	R-Value	Size X	HTM=	Load
2	Raised Wood - Adj	30	658.0 sqft	1.3	873 Btuh
	Floor Total		658		873 Btuh
			Zone Envelope Subtotal:		11538 Btuh

Infiltration	Type	ACH X	Volume(cuft)	walls(sqft)	CFM=	
	Natural	0.80	5264	690	74.7	3025 Btuh
Ductload	Pro. leak free, Supply(R6.0-Cond.), Return(R6.0-Cond) (DLM of 0.000)					0 Btuh
Zone #2	**Sensible Zone Subtotal**					**14563 Btuh**

WHOLE HOUSE TOTALS

	Subtotal Sensible	39099 Btuh
	Ventilation Sensible	0 Btuh
	Total Btuh Loss	39099 Btuh

Manual J Winter Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

EQUIPMENT

1. Electric Heat Pump	#	54000 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)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Whole House Component Details

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/14/2008

Component Loads for Whole House

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	24.0	0.0	24.0	29	80	1908 Btuh
2	2, Clear, 0.87, None,N,N	W	9.5ft	9ft.	40.0	33.3	6.7	29	80	1497 Btuh
3	2, Clear, 0.87, None,N,N	S	11.5f	9ft.	15.0	15.0	0.0	29	34	434 Btuh
4	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	36.0	0.0	36.0	29	80	2863 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	15.0	0.0	15.0	29	29	434 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	30.0	0.0	30.0	29	80	2385 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	20.0	0.0	20.0	29	29	579 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	16.0	0.0	16.0	29	29	463 Btuh
9	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	3.0	0.0	3.0	29	29	87 Btuh
10	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	18.0	0.0	18.0	29	80	1431 Btuh
11	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	8.0	0.0	8.0	29	80	636 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	16ft.	21.0	0.0	21.0	29	80	1670 Btuh
13	2, Clear, 0.87, None,N,N	E	7ft.	9ft.	13.3	7.0	6.4	29	80	709 Btuh
14	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	6.0	6.0	0.0	29	34	174 Btuh
16	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
17	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	20.0	0.0	20.0	29	80	1590 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
19	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	36.0	0.0	36.0	29	80	2863 Btuh
20	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	29	29	434 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
22	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
	Window Total				477 (sqft)					30612 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	690.0	2.1	1439 Btuh
2	Frame - Wood - Ext	13.0/0.09	1304.7	2.1	2721 Btuh
3	Frame - Wood - Adj	13.0/0.09	315.0	1.5	475 Btuh
	Wall Total		2310 (sqft)		4636 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	18.0	9.8	176 Btuh
	Door Total	38 (sqft)		372 Btuh

Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2156.0	1.7	3570 Btuh
	Ceiling Total		2156 (sqft)		3570 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Stem Wall with Stem Wall Insul	19.0	1498 (sqft)	0.7	1027 Btuh
2	Raised Wood - Adj	30.0	658 (sqft)	0.4	283 Btuh
	Floor Total		2156.0 (sqft)		1311 Btuh

	Envelope Subtotal:	40501 Btuh

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

Infiltration	Type SensibleNatural	ACH 0.70	Volume(cuft) 18746	wall area(sqft) 2310		CFM= 249.9	Load 4070	Btuh
Internal gain	Occupants 8		Btuh/occupant X 230		+	Appliance 3200	Load 5040	Btuh
					Sensible Envelope Load:		49612	Btuh
Duct load					(DGM of 0.000)		0	Btuh
					Sensible Load All Zones		**49612**	**Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**49612 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**49612 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**49612 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	7993 Btuh
	Latent ventilation gain	0 Btuh
	Latent duct gain	0 Btuh
	Latent occupant gain (8 people @ 200 Btuh per person)	1600 Btuh
	Latent other gain	0 Btuh
	Latent total gain	**9593 Btuh**
	TOTAL GAIN	**59204 Btuh**

EQUIPMENT

1. Central Unit	#	54000 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)

Version 8
For Florida residences only

System Sizing Calculations - Summer

Residential Load - Room by Room Component Details

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

Reference City: Gainesville (Defaults) Summer Temperature Difference: 17.0 F 1/14/2008

Component Loads for Zone #1: 1st Floor

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
1	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	24.0	0.0	24.0	29	80	1908 Btuh
2	2, Clear, 0.87, None,N,N	W	9.5ft	9ft.	40.0	33.3	6.7	29	80	1497 Btuh
3	2, Clear, 0.87, None,N,N	S	11.5f	9ft.	15.0	15.0	0.0	29	34	434 Btuh
4	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	36.0	0.0	36.0	29	80	2863 Btuh
5	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	15.0	0.0	15.0	29	29	434 Btuh
6	2, Clear, 0.87, None,N,N	W	1.5ft	9ft.	30.0	0.0	30.0	29	80	2385 Btuh
7	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	20.0	0.0	20.0	29	29	579 Btuh
8	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	16.0	0.0	16.0	29	29	463 Btuh
9	2, Clear, 0.87, None,N,N	N	1.5ft	9ft.	3.0	0.0	3.0	29	29	87 Btuh
10	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	18.0	0.0	18.0	29	80	1431 Btuh
11	2, Clear, 0.87, None,N,N	E	1.5ft	9ft.	8.0	0.0	8.0	29	80	636 Btuh
12	2, Clear, 0.87, None,N,N	E	1.5ft	16ft.	21.0	0.0	21.0	29	80	1670 Btuh
13	2, Clear, 0.87, None,N,N	E	7ft.	9ft.	13.3	7.0	6.4	29	80	709 Btuh
14	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	30.0	0.0	30.0	29	80	2385 Btuh
15	2, Clear, 0.87, None,N,N	S	1.5ft	9ft.	6.0	6.0	0.0	29	34	174 Btuh
	Window Total				295 (sqft)					17657 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
2	Frame - Wood - Ext	13.0/0.09	1304.7	2.1	2721 Btuh
3	Frame - Wood - Adj	13.0/0.09	315.0	1.5	475 Btuh
	Wall Total		1620 (sqft)		3197 Btuh

Doors	Type	Area (sqft)	HTM	Load
1	Insulated - Exterior	20.0	9.8	196 Btuh
2	Insulated - Adjacent	18.0	9.8	176 Btuh
	Door Total	38 (sqft)		372 Btuh

Floors	Type	R-Value	Size	HTM	Load
1	Stem Wall with Stem Wall Insul	19.0	1498 (sqft)	0.7	1027 Btuh
	Floor Total		1498.0 (sqft)		1027 Btuh

			Zone Envelope Subtotal:		22253 Btuh
Infiltration	Type	ACH	Volume(cuft) wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	13482 1620	153.4	2854 Btuh
Internal gain	Occupants	Btuh/occupant		Appliance	Load
	4	X 230	+	2400	3320 Btuh
			Sensible Envelope Load:		28427 Btuh
Duct load	Prop. leak free, Supply(R6.0-Cond.), Return(R6.0-Cond)			(DGM of 0.000)	0 Btuh
			Sensible Zone Load		**28427 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

Component Loads for Zone #2: 2nd Floor

Window	Type* Pn/SHGC/U/InSh/ExSh/IS	Ornt	Overhang Len	Hgt	Window Area(sqft) Gross	Shaded	Unshaded	HTM Shaded	Unshaded	Load
16	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
17	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	20.0	0.0	20.0	29	80	1590 Btuh
18	2, Clear, 0.87, None,N,N	S	1.5ft	8ft.	15.0	15.0	0.0	29	34	434 Btuh
19	2, Clear, 0.87, None,N,N	W	1.5ft	8ft.	36.0	0.0	36.0	29	80	2863 Btuh
20	2, Clear, 0.87, None,N,N	N	1.5ft	8ft.	15.0	0.0	15.0	29	29	434 Btuh
21	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
22	2, Clear, 0.87, None,N,N	E	1.5ft	8ft.	32.0	0.0	32.0	29	80	2545 Btuh
	Window Total				182 (sqft)					12955 Btuh

Walls	Type	R-Value/U-Value	Area(sqft)	HTM	Load
1	Frame - Wood - Ext	13.0/0.09	690.0	2.1	1439 Btuh
	Wall Total		690 (sqft)		1439 Btuh
Ceilings	Type/Color/Surface	R-Value	Area(sqft)	HTM	Load
1	Vented Attic/DarkShingle	30.0	2156.0	1.7	3570 Btuh
	Ceiling Total		2156 (sqft)		3570 Btuh
Floors	Type	R-Value	Size	HTM	Load
2	Raised Wood - Adj	30.0	658 (sqft)	0.4	283 Btuh
	Floor Total		658.0 (sqft)		283 Btuh
			Zone Envelope Subtotal:		18248 Btuh

Infiltration	Type	ACH	Volume(cuft)	wall area(sqft)	CFM=	Load
	SensibleNatural	0.70	5264	690	65.3	1216 Btuh
Internal gain		Occupants	Btuh/occupant		Appliance	Load
		4	X 230	+	800	1720 Btuh
				Sensible Envelope Load:		21184 Btuh
Duct load	Prop. leak free, Supply(R6.0-Cond.), Return(R6.0-Cond)				(DGM of 0.000)	0 Btuh
					Sensible Zone Load	**21184 Btuh**

Manual J Summer Calculations

Residential Load - Component Details (continued)

Project Title:
James & Ericka Cook

Code Only
Professional Version
Climate: North

Lake City, FL 32024-

1/14/2008

WHOLE HOUSE TOTALS

Whole House Totals for Cooling	**Sensible Envelope Load All Zones**	**49612 Btuh**
	Sensible Duct Load	0 Btuh
	Total Sensible Zone Loads	**49612 Btuh**
	Sensible ventilation	0 Btuh
	Blower	0 Btuh
	Total sensible gain	**49612 Btuh**
	Latent infiltration gain (for 54 gr. humidity difference)	7993 Btuh
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	Latent duct gain	0 Btuh
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	Latent total gain	**9593 Btuh**
	TOTAL GAIN	**59204 Btuh**

EQUIPMENT

1. Central Unit	#	54000 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)

Version 8
For Florida residences only

Residential Window Diversity

MidSummer

Project Title:
James & Ericka Cook

Lake City, FL 32024-

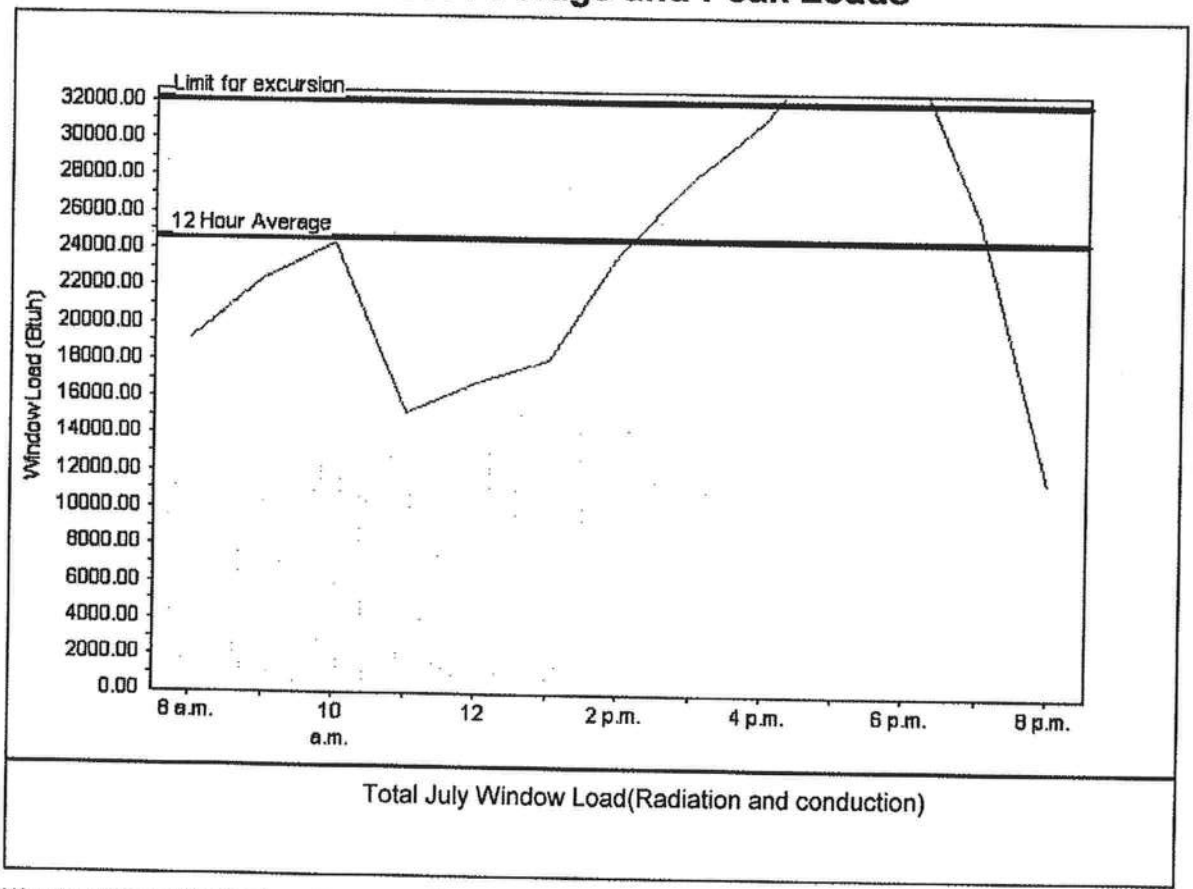
Code Only
Professional Version
Climate: North

1/14/2008

Weather data for: Gainesville - Defaults

Summer design temperature	92 F	Average window load for July	24654 Btu
Summer setpoint	75 F	Peak window load for July	35986 Btu
Summer temperature difference	17 F	Excusion limit(130% of Ave.)	32051 Btu
Latitude	29 North	Window excursion (July)	3935 Btuh

WINDOW Average and Peak Loads



Total July Window Load(Radiation and conduction)

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: _____
DATE: _____

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 INA 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:** 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 Enqineerinq Summarv, calculations and anv 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 (1) 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 b used for the design of exterior component and cladding materials not specifically designed by the registered design professional
☒	☐	**Elevations including:**
☒	☐	a) All sides
☒	☐	b) Roof pitch
☒	☐	c) Overhang dimensions and detail with aftic 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 (accessible 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 (termicide or alternative method)
  10. Slab on grade
     a. Vapor retardant (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. Ali 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 (FBC 1 04.2.1 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 (termicide or alternative method)
11. Slab on grade
    a. Vapor retardant (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

☒ ☐ g) Arc Fault Circuits (AFCI) in bedrooms

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 Required Before Anv Inspections Will Be Done**

☒ ☐ Private Potable Water

a) Size of pump motor

b) Size of pressure tank

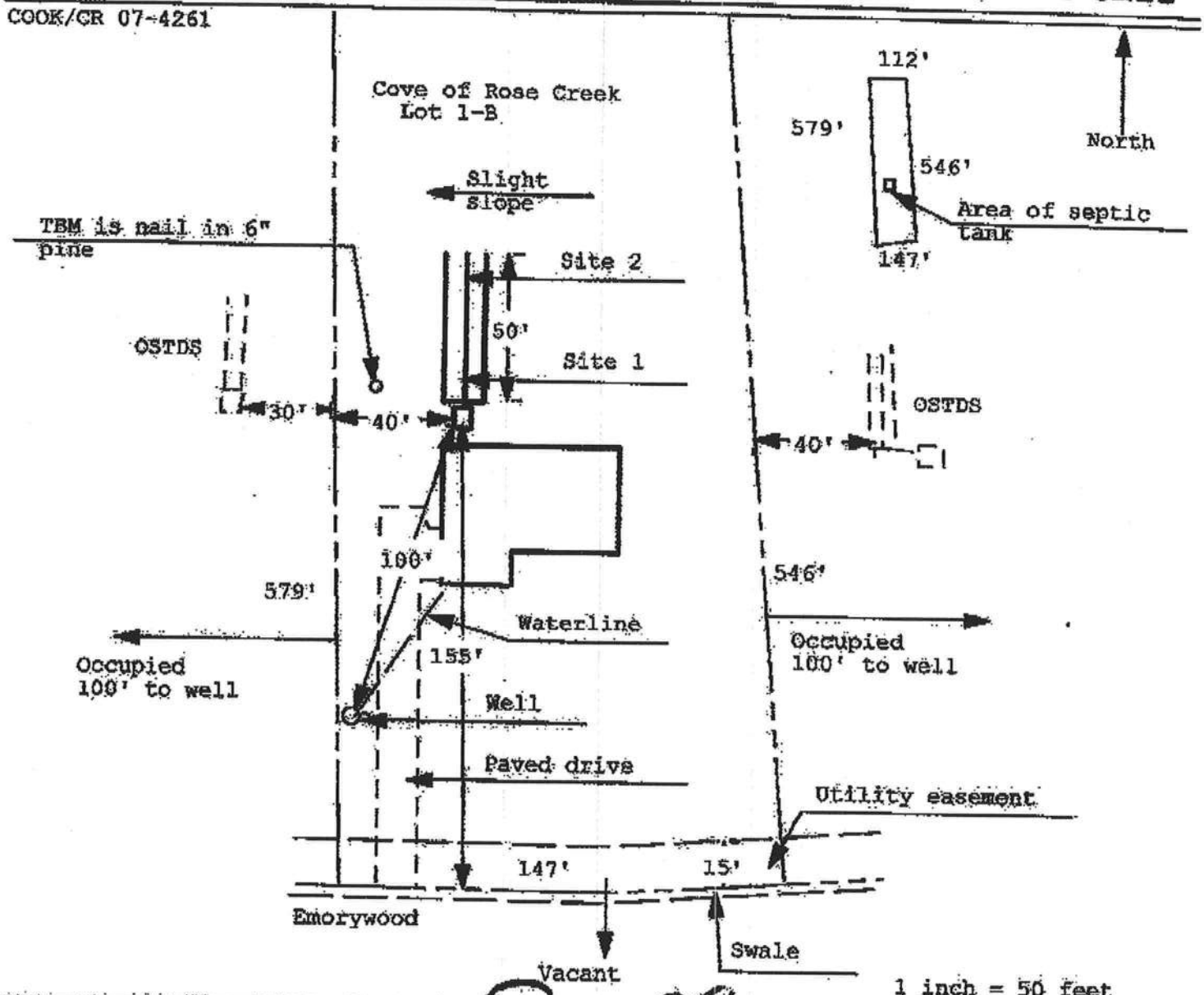
c) Cycle stop valve if used

James Cook 0801-149

Application for Onsite Sewage Disposal System Construction Permit. Part II Site Plan

Permit Application Number: 08-0132

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



Site Plan Submitted By Paul Lloyd Date 1/23/08

Plan Approved ✓ Not Approved ____ Date 1/30/08

By [signature] Columbia CPHU

Notes: ____

Columbia County Building Permit Application

For Office Use Only Application # 0801-149 Date Received 1/29/08 By GT Permit # 1554 / 26742

Zoning Official BLK Date 07.02.08 Flood Zone X Plat FEMA Map # N/A Zoning A-3

Land Use A-3 Elevation N/A MFE 76' River N/A Plans Examiner OKJTH Date 2-1-08

Comments Sect. 14.9 Special Family Lot Permit / Elevation Confirmation Letter Required

☐ NOC ☑ EH ☑ Deed or PA ☑ Site Plan ☑ State Road Info ☑ Parent Parcel # 01-5S-16-03397-201

☐ Dev Permit # _____ ☐ In Floodway ☑ Letter of Authorization from Contractor

☐ Unincorporated area ☐ Incorporated area ☐ Town of Fort White ☐ Town of Fort White Compliance letter

☑ Well Letter

Septic Permit No. _____ Fax 386-752-2282

Name Authorized Person Signing Permit Melanie Roder Phone 386-623-7829

Address 387 SW Kemp court Lake City, FL 32024

Owners Name James Cook Phone 386-623-4623

911 Address 141 SW Emerywood gln, Lake City, FL 32024

Contractors Name Aaron Simque Homes Phone 386-867-0692

Address POBox 2695 Lake City, FL 32056

Fee Simple Owner Name & Address _____

Bonding Co. Name & Address _____

Architect/Engineer Name & Address Will Myers / Mark Disosway

Mortgage Lenders Name & Address N/A Has not decided yet

Circle the correct power company – FL Power & Light – (Clay Elec.) – Suwannee Valley Elec. – Progress Energy

Property ID Number 01-5S-16-03397-205 Estimated Cost of Construction 220,000

Subdivision Name Cove at Rose Creek Lot 1b Block ____ Unit ____ Phase ____

Driving Directions 47S, TL on SW Walter ave, TL on SW Emerywood gln. 2nd lot on left.

_____ Number of Existing Dwellings on Property 0

Construction of New SFD Total Acreage 1.63 Lot Size _____

Do you need a - (Culvert Permit) or (Culvert Waiver) or Have an Existing Drive Total Building Height 28'-8"

Actual Distance of Structure from Property Lines - Front 65'-0" Side 38'-0" Side 42'-6" Rear 434'-0"

Number of Stories 2 Heated Floor Area 2342 Total Floor Area 2810 Roof Pitch 12-12

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.

Spoke to. 2/11/08
Melanie
ck 1880

Columbia County Building Permit Application

WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. A NOTICE OF COMMENCEMENT MUST BE RECORDED AND POSTED ON THE JOB SITE BEFORE THE FIRST INSPECTION. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.

FLORIDA'S CONSTRUCTION LIEN LAW: Protect Yourself and Your Investment
According to Florida Law, those who work on your property or provide materials, and are not paid-in-full, have a right to enforce their claim for payment against your property. This claim is known as a construction lien. If your contractor fails to pay subcontractors or material suppliers or neglects to make other legally required payments, the people who are owed money may look to your property for payment, even if you have paid your contractor in full. This means if a lien is filed against your property, it could be sold against your will to pay for labor, materials or other services which your contractor may have failed to pay.

NOTICE OF RESPONSIBILITY TO BUILDING PERMITEE:
YOU ARE HEREBY NOTIFIED as the recipient of a building permit from Columbia County, Florida, you will be held responsible to the County for any damage to sidewalks and/or road curbs and gutters, concrete features and structures, together with damage to drainage facilities, removal of sod, major changes to lot grades that result in ponding of water, or other damage to roadway and other public infrastructure facilities caused by you or your contractor, subcontractors, agents or representatives in the construction and/or improvement of the building and lot for which this permit is issued. No certificate of occupancy will be issued until all corrective work to these public infrastructures and facilities has been corrected.

OWNERS CERTIFICATION: 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. I further understand the above written responsibilities in Columbia County for obtaining this Building Permit.

Owners Signature

CONTRACTORS AFFIDAVIT: By my signature I understand and agree that I have informed and provided this written statement to the owner of all the above written responsibilities in Columbia County for obtaining this Building Permit.

Contractor's Signature (Permitee)

Contractor's License Number RB2900 3130
Columbia County
Competency Card Number _____

Affirmed under penalty of perjury to by the Contractor and subscribed before me this 29 **day of** Jan **20**08.

Personally known Y **or Produced Identification** _____

State of Florida Notary Signature (For the Contractor)

SEAL:

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Revised 11-30-07

Columbia County Building Department
Culvert Permit

Culvert Permit No.
000001554

DATE 02/12/2008 PARCEL ID # 01-5S-16-03397-205

APPLICANT MELANIE RODER PHONE 386.623.7829

ADDRESS 387 SW KEMP COURT LAKE CITY FL 32024

OWNER JAMES COOK PHONE 386.623.4623

ADDRESS 141 SW EMORYWOOD GLN LAKE CITY FL 32024

CONTRACTOR AARON SIMQUE PHONE 386.867.0692

LOCATION OF PROPERTY 47-S TO WALTER AVENUE,TL TO EMORYWOOD GLN,TL 2ND LOT ON L.

SUBDIVISION/LOT/BLOCK/PHASE/UNIT COVE @ ROSE CREEK 1

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

@ CAM110M01 CamaUSA Appraisal System Columbia County
1/16/2008 14:43 **Property Maintenance** **87465 Land 001**
AG 000
Bldg 000
Xfea 000
87465 TOTAL B
3.660 Total Acres

Year T Property Sel
2008 R 01-5S-16-03397-201 ...
Owner COOK MARK A Conf
Addr P O BOX 2695
Retain Cap? Renewal Notice
City,St LAKE CITY FL Zip 32056 N
Country (PUD1) (PUD2) (PUD3) MKTA01

Appr By CM Date 8/23/2006 AppCode UseCd 000000 **VACANT**
TxDist Nbhd MktA ExCode Exemption/% TxCode Units Tp
003 1516.00 01
DIST 3
House# Street MD Dir #
- City
Subd **N/A** Condo .00 **N/A**
Sect 1 Twn 5S Rnge 16 Subd Blk Lot
Legals LOT 1 COVE AT ROSE CREEK, EX BEG AT NE COR LOT 1, RUN S 18
DG E 454.76 FT TO A PT ON A CURVE ON N R/W EMORYWOOD GLEN, +
Map# Mnt **10/31/2007 THRESA**

F1=Task F2=ExTx F3=Exit F4=Prompt F11=Docs F10=GoTo PgUp/PgDn F24=More

Proposed # 01-5S-16-03397-205

AFFIDAVIT OF SUBDIVIDED REAL PROPERTY
FOR USE OF IMMEDIATE FAMILY MEMBERS
FOR PRIMARY RESIDENCE

STATE OF FLORIDA
COUNTY OF COLUMBIA

BEFORE ME the undersigned Notary Public personally appeared.

Mark Cook, the Owner of the parent tract which has been subdivided for immediate family primary residence use, hereinafter the Owner, and James Cook, the family member of the Owner, who is the owner of the family parcel which is intended for immediate family primary residence use, hereafter the Family Member, and is related to the Owner as his brother, and both individuals being first duly sworn according to law, depose and say:

1. Both the Owner and the Family Member have personal knowledge of all matters set forth in this Affidavit.

2. The Owner holds fee simple title to certain real property situated in Columbia County, and more particularly described by reference to the Columbia county Property Appraiser Tax Parcel No. 01-5S-16-03397-201.

3. The Owner has divided his parent parcel for use of immediate family members for their primary residence and the parcel divided and the remaining parent parcel are at least ½ acre in size. Immediate family is defined as grandparent, parent, step-parent, adopted parent, sibling, child, step-child, adopted child or grandchild.

4. The Family Member is a member of the Owner's immediate family, as set forth above, and holds fee simple title to certain real property divided from the Owner's parcel situated in Columbia County and more particularly described by reference to the Columbia County Property Appraiser Tax Parcel No. 01-5S-16-03397-205.

5. No person or entity other than the Owner and Family Member claims or is presently entitled to the right of possession or is in possession of the property, and there are no tenancies, leases or other occupancies that affect the Property.

6. This Affidavit is made for the specific purpose of inducing Columbia County to recognize a family division for a family member on the parcel divided in accordance with Section 14.9 of the Columbia County Land Development Regulations.

7. This Affidavit is made and given by Affiants with full knowledge that the facts contained herein are accurate and complete, and with full knowledge that the penalties under Florida law for perjury include conviction of a felony of the third degree.

We Hereby Certify that the information contained in this Affidavit are ~~true~~ and correct.

X _____ X _____

Owner Family Member

Mark Cook James Cook

Typed or Printed Name Typed or Printed Name

Subscribed and sworn to (or affirmed) ~~before~~ me this 17 day of Jan, 2008, by Mark Cook (Owner) who is personally known to me or has produced _____ as identification.

_____

Notary Public

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Subscribed and sworn to (or affirmed) before me this 17 day of Jan, 2008, by James Cook (Family Member) who is personally known to me or has produced _____ as identification.

_____

Notary Public

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Notice of Authorization

I, Aaron Simque, do hereby authorize Melanie Roder or Linda Roder,

To be my representative and act on my behalf in all aspects of applying for a

Building permit to be located in Columbia County.

Contractor's signature

1-28-08
Date

Sworn and subscribed before me this 29 day of Jan, 2008

Notary Public

Linda R. Roder
Commission #DD303275
Expires: Mar 24, 2008
Bonded Thru
Atlantic Bonding Co., Inc.

Personally known ✓
Produced ID (Type): _____

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 01-5S-16-03397-205

Building permit No. 000026742

Use Classification SFD/UTILITY

Fire: 64.20

Permit Holder AARON SIMQUE

Waste: 167.50

Owner of Building JAMES COOK

Total: 231.70

Location: 141 SW EMORYWOOD GLEN, LAKE CITY, FL

Date: 12/24/2008

Building Inspector

POST IN A CONSPICUOUS PLACE
(Business Places Only)