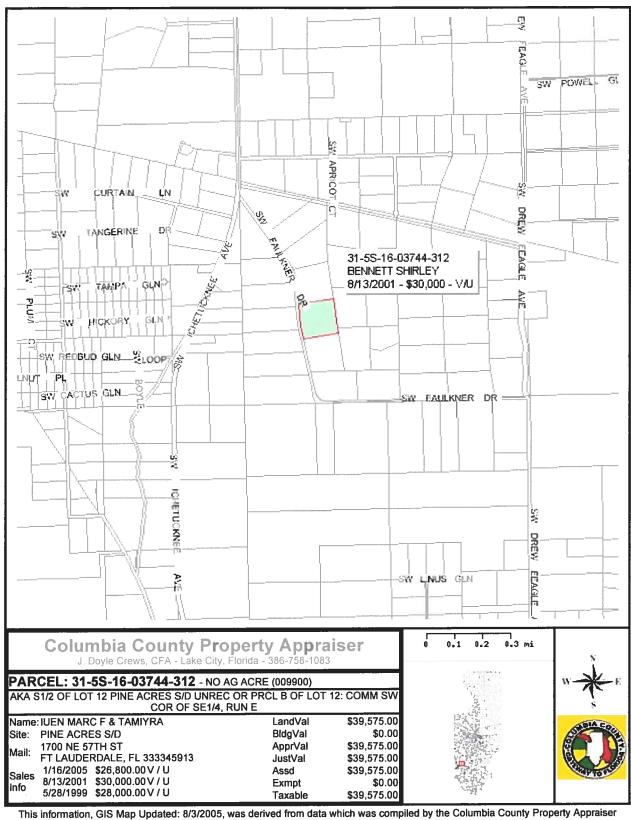
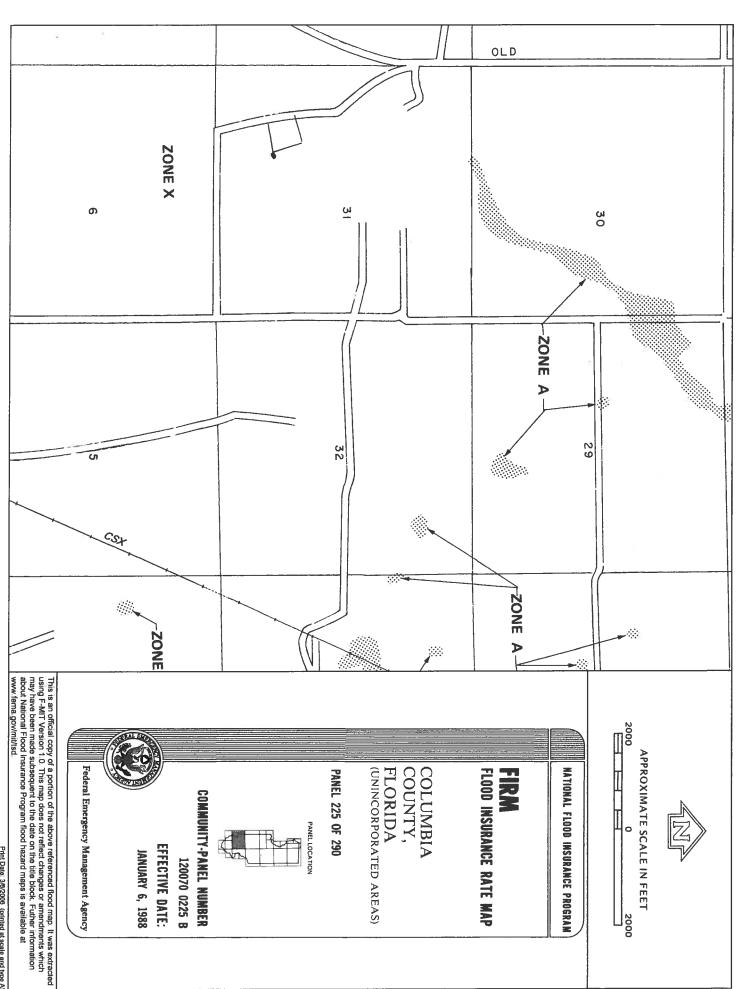
Columbia County Building Permit Application 2986 ck# 298 Revised 9-23-04

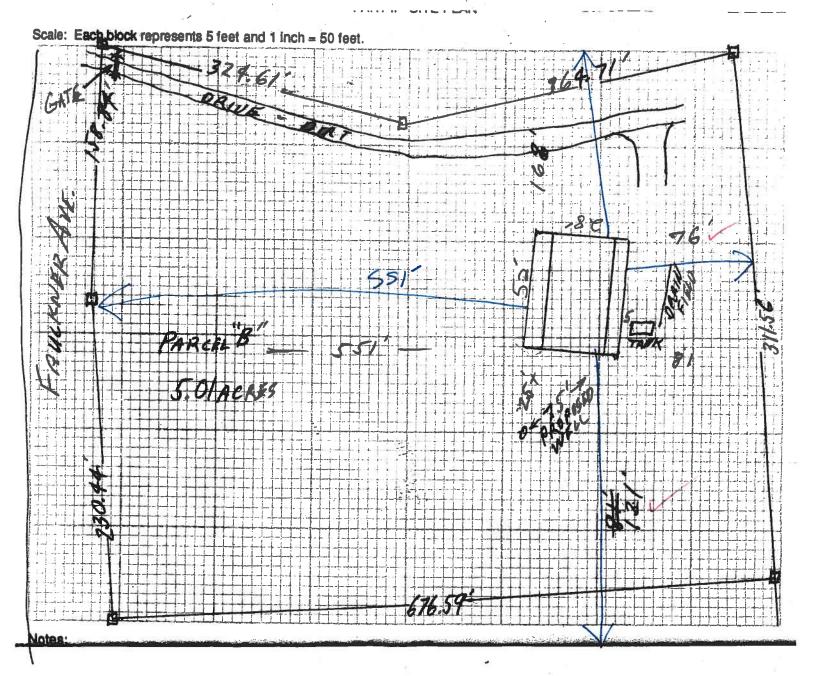
For Office Use Only Application # 0602-87 Date Received CH By 2/21/Permit # 1628/243// Application Approved by - Zoning Official Ship Date 2003 06 Plans Examiner 0KJTH Date 3-1-05
Flood Zone Development Permit Zoning Land Use Plan Map Category
Comments CALL MIKE AT 623-3 820
Applicants Name Linda or Welanie Roder Phone 386-752-2281
Address 387 S.W. Kemp of, Cake City PC 32024
Owners Name Marcand Tammy Ruen Phone
911 Address 1149 S.W. Faulkner Dr. Ft. White, FC 32038
Contractors Name Mike McClellan Phone 623-3820
Address 381 S.W. Carpenter Rd Lake City, FL 32024
Fee Simple Owner Name & Address NA
Bonding Co. Name & Address
Architect/Engineer Name & Address Nick (seisler
Mortgage Lenders Name & Address NAM
Circle the correct power company - Fl. Power & Light - Clay Flec Suwannee Valley Flec Progressive Energy
Property ID Number 31-55-16-03744-312 Estimated Cost of Construction 225.00
Subdivision NameLot Block Unit Phase
Driving Directions 475. to Columbia City, Ron 240, go 4 mis Lon
I chet ucknee Ave. 90 3 miles to Faukner Ave, go Left less
than 1/2 mile, Lot on left at gate
Type of Construction <u>SPD</u> Number of Existing Dwellings on Property O
Total Acreage 5.01 Lot Size Do you need a - <u>Culvert Permit</u> or <u>Culvert Waiver</u> or <u>Have an Existing Drive</u>
Actual Distance of Structure from Property Lines - Front 55/ Side 168 Side 121 Rear 76
Total Building Height 22-6 Number of Stories 2 Heated Floor Area 2090 Roof Pitch 12-12
Mirches 700 OPEN DECK 384 TOTAL 3174.6
Application is hereby made to obtain a permit to do work and installations as indicated. I certify that no work or installation has commenced prior to the issuance of a permit and that all work be performed to meet the standards of all laws regulating construction in this jurisdiction.
OWNERS AFFIDAVIT: I hereby certify that all the foregoing information is accurate and all work will be done in compliance with all applicable laws and regulating construction and zoning.
WARNING TO OWNER: YOUR FAILURE TO RECORD A NOTICE OF COMMENCMENT MAY RESULT IN YOU PAYING TWICE FOR IMPROVEMENTS TO YOUR PROPERTY. IF YOU INTEND TO OBTAIN FINANCING, CONSULT WITH YOUR LENDER OR ATTORNEY BEFORE RECORDING YOUR NOTICE OF COMMENCEMENT.
V Mont Elle Call
Owner Builder or Agent (Including Contractor)  Linda R. Rode Contractor Signature
STATE OF FLORIDA  Commission #DD3012 Competency Card Number  Expires: Mar 24, 10 Competency Card Number
COUNTY OF COLUMBIA  Bonded Thru NOTARY STAMP/SEAL  Atlantic Bonding Co., Inc.
Sworn to (or affirmed) and subscribed before me
this day of 20
Personally known or Produced Identification Netary Signature



Office solely for the governmental purpose of property assessment. This information should not be relied upon by anyone as a determination of the ownership of property or market value. No warranties, expressed or implied, are provided for the accuracy of the data herein, it's use, or it's interpretation. Although it is periodically updated, this information may not reflect the data currently on file in the Property Appraiser's office. The assessed values are NOT certified values and therefore are subject to change before being finalized for ad valorem assessment purposes.



# Site Plani Marc Iluen 5.01 acres



Prepared by and return to: Shirley Bennett 3108 SW Old Wire Rd Ft White, FL 32038

Property Appraiser's Identification No. 31-5S-16-03744-312
Purchaser's S.S. #
Marc F. luen: 266-98-3496
Tamiyra k. luen: 265-11-6094

Inst:2005025686 Date:10/14/2005 Time:16:58
Doc Stamp-Deed: 187.60
Doc Stamp-Mort: 76.30
Intang. Lax: 43.50
DC,P.DeWitt Cason,Columbia County B:1061 P:2608

THIS CONTRACT FOR DEED, made this 16th day of January, A.D. 2005, Shirley Bennett, whose mailing address is 3108 SW Old Wire Rd., Ft White, Florida 32036, hereinafter referred to as "Seller", and Marc F. & Tamiyra K.luen, whose mailing address is 1700 N.E. 57<sup>th</sup> St, Ft Lauderdale, FL 33334-5913, hereinafter referred to "Purchasers".

WITNESSETH, that if the Purchasers shall first make the payments and perform the covenants hereinafter mentioned on their part to be made and performed, the Seller hereby covenants and agrees to convey and assure to said purchasers their heirs, executors, administrators or assigns, in fee simple, clear of all encumbrances whatever, by a good and sufficient Warranty Deed, the following described property, situated in the County of Columbia, State of Florida, known and described as follows, to wit:

THE SOUTH ½ OF Lot # 12B Pine Acres, an unrecorded subdivision in Section 31, Township 5 South, Range 16 East, Columbia County, Florida.

COMMENCE AT THE SW CORNER OF THE SE ½ OF SECTION 31, TOWNSHIP 5 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN THENCE N.89°18'21" E., ALONG THE SOUTH LINE OF SAID SECTION 31, 248.36 FEET; THENCE N.00° 24'47" W., 605.74 FEET; THENCE S.89° 19'13" W., 1013.93 FEET; THENCE N.08° 00'23" W., 720.25 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.08°00'23" W., 311.56 FEET; THENCE S.78°49'51" W., 371.34 FEET; THENCE N.80°27'24" W., 324.61 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF FAULKNER ROAD (A COUNTY MAINTAINED GRADE ROAD); THENCE S.04°24'47" E., ALONG SAID EASTERLY RIGHT-OF-WAY LINE, 158.95 FEET; THENCE S.11°43'40" E., ALONG SAID EASTERLY RIGHT-OF-WAY LINE, 230.58 FEET; THENCE N. 81°59'37" E., 668.65 FEET TO THE POINT OF BEGINNING. PARCEL CONTAINS 5.01 ACRES, MORE OR LESS.

This Contract for Deed is given subject to the oil, gas and mineral rights and easements of record, if any.

The total agreed upon purchase price of the property shall be Twenty-six Thousand, Six Humbred and No/100——— (\$26,750.00) Dollars, payable at the times and in the manner following: Five Thousand and No/100 Dollars (\$5,000.00) non-refundable down-payment, receipt of which is hereby acknowledged, and the balance of 21,750.00, shall be paid over a period of 144 months with the sum of \$298.98 becoming due on February 15, 2005, and a like sum of \$298.98 shall be due on the fifteenth day of each month thereafter until principal and interest are paid in full with interest at the rate 13 per centum per annum. Price does not include any improvements, i.e.: well & septic system, power pole, or culvert. Purchasers shall have the right to make prepayment at any time without penalty. Purchasers shall pay all expenses related to closing costs, including Title Insurance, related to a new mortgage from another lender. Interest beginning January 16, 2005.

At such time as the Purchasers shall have paid the full amount due and payable under this Contract, or at such other times as provided herein, the Seller promises and agrees to convey the above described property to the Purchasers by good and sufficient Warranty Deed, subject to restrictions a set forth in this Contract For Deed.

The Seller warrants that the title to the property can be fully insured by a title company authorized to do business in the State of Florida. Purchasers may obtain such insurance at their own expense.

The Purchasers shall be permitted to go into possession of the property covered by this contract immediately, and shall assume all liability for taxes from and after that date. Purchasers acknowledge receipt of this Contract.

Purchasers may not cut or remove any merchantable timber from the property without the written consent of the Seller during the term of this Contract or during the term of any mortgage given to Seller as provided herein. In the event Seller grants permission to cut or remove timber, all money derived from the sale thereof shall be applied against the remaining balance in inverse order.

The time of payment shall be of the essence and in the event of any default of payment of any of the purchase money as and when it becomes due, or in performance of any other obligations assumed by Purchasers in this Contract, including the payment of taxes, and in the event that the default shall continue for a period of Fifteen (15) days, then the Seller may consider the whole of the balance due under this Contract immediately due and payable and collectible, or the Seller may rescind this Contract, retaining the cash consideration paid for it as liquidation damages, and this Contract than shall become null and void and the Seller have the right to reenter and immediately take possession of the property covered by this Contract. In the event that iris necessary for the Seller to enforce this Contract by foreclosure proceedings, or otherwise, all costs of the proceedings, including a reasonable attorney's fee, shall be paid by the Purchasers. Installments not paid within Ten (10) days after becoming due under the terms of this Contract shall be subject to, and it is agreed Sell shall collect a late charge in the amount of Ten Percent (10% of the monthly payment per month upon such delinquent installments. ANY PAYMENT MADE BY CHECK AND WHICH IS RETURNED UNPAID BY THE BANK WILL REQUIRE PURCHASERS TO PAY A \$25.00 PENALTY FOR SUCH DISHONORED CHECK.

In the event this Contract is assigned, sold, devised, transferred, quit-claimed or in any way conveyed to another by the Purchasers, then in that event, all the then remaining balance shall become immediately due and payable and collectible.

Purchasers acknowledge that they have personally inspected subject property and found it to be as represented. Purchasers further agrees that the property is suitable for the purpose for which it is being purchased.

#### RESTRICTIONS

For a period of twenty years from date thereof, no junk of any kind or description, including junk automobiles, junk electrical appliances, or worn out or discarded machinery, can be kept/stored or placed on upon this property.

No campers, motor homes, tents, buses, or similar type temporary housing may be occupied as a permanent residence. Mobile homes may not be placed on this property solely for rental purposes. No defacement of property, such as a borrow pit, is allowed. Swine are not allowed. The developer may waive any of these restrictions for sufficient cause and good reason, provided the land owners of adjacent lots give their consent. These restrictions terminate 20 years unless in writing unanimously by the owners within the subdivision to extend for another 20 years.

Page 2 of 3

Doc Stamp-Mort: 76.30 Intang. Tax: 43.50

DC,P.DeWitt Cason,Columbia County B:1061 P:2609

IT IS MUTUALLY AGREED, by and between the parties hereto, that the time of each payment shall be an essential part of this Contract, and that all covenants and agreements herein contained shall extend to and be obligatory upon heirs, executors, administrators and assigns of the respective parties.

IN WITNESS WHEREOF, the parties of these presents have hereunto set their hands and seals the day and year first above written. Before we signed this Contract, we received a copy of the restrictions and we personally inspected the above referenced property.

WITNESS AS TO SELLER WITNESS AS TO BUYER MARY Woods STATE OF FLORIDA COUNTY OF COLUMBIA The foregoing instrument was acknowledged before me this 10 do 2005, by 100 to 100 He/She is personally known to me. My Commission Expires: STATE OF FLORIDA **COUNTY OF COLUMBIA** The foregoing instrument was acknowledged before me this to the state of the state part 15, \$ 2008 (Print or Type Name) My Commission Expires: Inst:2005025686 pate:10/14/2005 (1me:16:58

Doc Stamp-Deed: 187.60 Doc Stamp-Mort :

Intang. Tax :

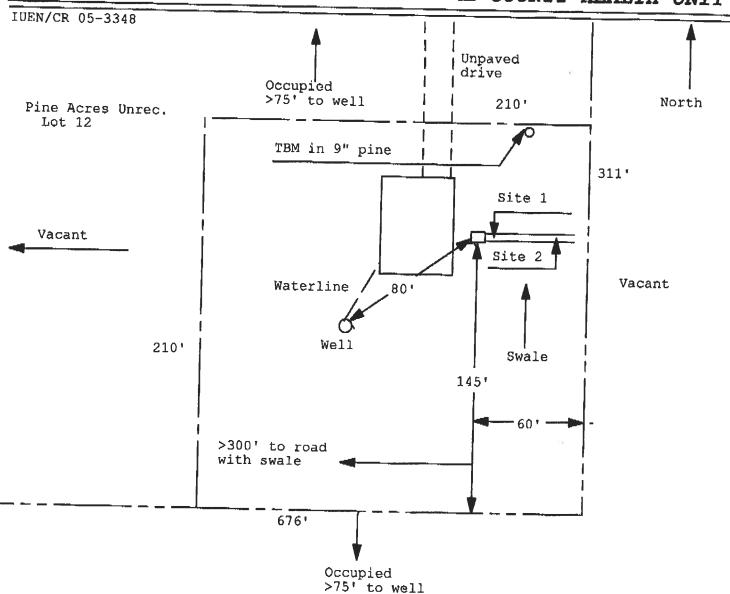
76.30

43.50

\_DC,P.DeWitt Cason,Columbia County B:1061 P:2610

#### 

ALL CHANGES MUST BE APPROVED BY THE COUNTY HEALTH UNIT



	=0	1 inch = 50 feet
Site Plan Submitted Plan Approved	Not Approved Day	Date 2/8/06 2-17-06
By Mas		Columbia CPHU
Notes:	·	

#### NOTICE OF COMMENCEMENT FORM COLUMBIA COUNTY, FLORIDA

North Florida Permit Service 387 S.W. Kempit. Lake City FC 32024

> EXPIRES: July 23, 2007 Bonded Thru Notary Public Underwriters

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.

Tax Parcel ID Number 31-55-16-03744-312 1. Description of property: (legal description of the property and street address or 911 address) 5. W. Faukner Dr. Ft. White FL 32038 2. General description of improvement: 3. Owner Name & Address Interest in Property 4. Name & Address of Fee Simple Owner (if other than owner): 5. Contractor Name Mike **Phone Number** Address 387 6. Surety Holders Name **Phone Number** Address Amount of Bond 7. Lender Name \_\_\_ /\ A Phone Number Address 8. Persons within the State of Florida designated by the Owner upon whom notices or other documents may be served as provided by section 718.13 (1)(a) 7; Florida Statutes: Name N/ Phone Number \_ Address 9. In addition to himself/herself the owner designates to receive a copy of the Lienor's Notice as provided in Section 713.13 (1) -(a) 7. Phone Number of the designee 10. Expiration date of the Notice of Commencement (the Inst: 2006004630 Date: 02/24/2006 Time: 14:36 A. P DC, P. DeWitt Cason, Columbia County B:1075 P:717 (Unless a different date is specified) NOTICE AS PER CHAPTER 713, Florida Statutes: The owner must sign the notice of commencement and no one else may be permitted to sign in his/her stead. Sworn to (or affirmed) and subscribed before day of 17 telegram, 20 06 **PAULA BAILEY** MY COMMISSION # DD 233978

#### HALL'S PUMP & WELL SERVICE, INC.

SPECIALIZING IN 4"-6" WELLS



DONALD AND MARY HALL OWNERS

June 12, 2002

#### NOTICE TO ALL CONTRACTORS

Please be advised that due to the new building codes we will use a large capacity diaphram tank on all new wells. This will insure a minimum of one (1) minute draw down or one (1) minute refill. If a smaller diaphram tank is used then we will install a cycle stop valve which will produce the same results.

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

Thank, you,

Donald D. Hall

DDH/jk

Strictly Wholesale, Inc. PO Box 7500 Tallahassee, FL 32314

DP rating +48.3 PSF, -58.5 PSF

Installation Instructions:

The Main frame was secured to the test buck using forty-two (#10 x 2-1/2) flat head screws. Two were used at each hinge; 9 at each Jamb; and 8 at the head. The dead bolt striker was quadruple screwed to the jamb frame and the cylindrical strike plate was double screwed to the jamb frame.



#### NATIONAL CERTIFIED TESTING LABORATORIES

1464 GEMINI BOULEVARD • ORLANDO, FLORIDA 32837 PHONE (407) 240-1356 • FAX (407) 240-8882

#### STRUCTURAL PERFORMANCE TEST REPORT

REPORT NO.: NCTL-210-1642-4,5,6 (S)

TEST DATE: 08-16-94 REPORT DATE: 09-12-94

LABORATORY CERTIFICATION NO.: 94-0323.47

CLIENT: Simpson/Mastermark

400 Simpson Avenue

P.O. Box 210

McCleary, Washington 98557

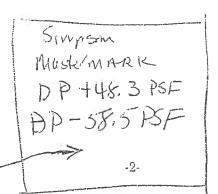
<u>TEST SPECIMEN</u>: Simpson/Mastermark's Series "1501" Dual Panel Full-Lite Double Wood Patio Door Entry System (Type OX)

TEST SPECIFICATIONS: ASTM E283-91, "Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors under Specified Pressure Difference Across the Specimen. ASTM E330-90, "Structural Performance of Exterior Windows, Curtain Walls, and Doors by Uniform Static Air Pressure Difference." AAMA/NWWDA/101/I.S. 2-97, "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors." North Carolina State Building Code, 1997 Edition, Section 613.

#### TEST SPECIMEN DESCRIPTION

GENERAL: The specimen tested was a two (2) panel type (OX) inswinging wood full lite french patio door system, consisting of a wood main frame and wood door panels. The patio door measured 6'3-1/4" wide by 8'2-3/4" high overall. Both panels measured 3'0" wide by 8'0" high by 1-3/4" thick. The fixed panel was interior adhered directly to the main frame using an adhesive bond and interior wood stops stapled-in-place on 12" centers. The fixed panel employed a rigid vinyl bottom rail that was sealed in place at the exterior. The active panel employed four (4) 4" butt hinges. One (1) cylindrical lock set was located at 36" from the bottom edge at the active panel with the dead bolt security lock at 42". Keepers were fastened to the wood jamb frame at lock positions. A dual durometer sweep was triple sealed and stapled to the bottom edge of the active panel. A secondary 9" slide bolt was located at 1-1/2" from the top left hand interior corner of the active panel with the keeper double screwed to the head at lock position. The main frame jamb/head corners were of six (6) staple corner construction. The jamb/sill corners were of triple screw coped corner construction. Panel top rail/stile corners were of glued double dowel rabbeted corner construction. The panel bottom rail/stile corners were of quadruple dowel rabbeted corner construction. The fixed jamb frame was double lag bolted at the head and sill.

WEATHERSTRIP: A single strip of dual durometer weatherseal was used at the head, hinge jamb and fixed jamb frame. A dual durometer sweep was triple sealed and continuously stapled to the bottom of the active panel. Vinyl wrapped foam dust pads were used at the hinge jamb/sill corner and the jamb frame/sill corner.



Simpson/Mastermark

NCTL-210-1642-4,5,6 (\$

CLAZING: Both panels were interior glazed using 1/8" thick clear tempered glass using an adhesive bedding and a naile in place interior wood bead stop. Each lite provided a viewing area of 22" x 81".

INTERIOR & EXTERIOR SURFACE FINISH: Clear sealed wood.

SEALANT: The main frame was triple siliconed sealed at the perimeter to the test buck. A small-joint sealant was applied to the jamb/sill corners at the dust pad locations.

INSTALLATION FASTENERS: The main frame was secured to the test buck using forty-two (# 10 x 2-1/2") flat heat screws. Two (2) were used at each hinge; nine (9) at each jamb; and eight (8) at the head. The dead bolt striker was quadruple screwed to the jamb frame and the standard cylindrical strike plate was double screwed to the jamb frame. (See fastener location diagram)

#### TEST RESULTS SPECIMEN NO 4 (S)

PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT <sup>2</sup>	0.20" CFM/FT <sup>2</sup>
5.2.4	Uniform Static Loads 1/2 of Full Load 32.4 psf Exterior 42.9 psf Interior	0.064" 0.078"	0.384" 0.384"
	Uniform Static Loads Design Loads 43.2 psf Exterior 57.2 psf Interior	0.030" 0.038"	0.384" 0.384"
5.2.6	Water Resistance (5.0 GPH/FT²) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads 64.8 psf Exterior 85.5 psf Interior	0.132" 0.156"	0.384" 0.384"

#### TEST RESULTS SPECIMEN NO 5 (S)

PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT <sup>2</sup>	0.20" CFM/FT <sup>2</sup>
5.2.4	Uniform Static Loads 1/2 of Full Load 32.4 psf Exterior 42.9 psf Interior	0.008° 0.038"	0.384" 0.384"
	Uniform Static Loads Design Loads 43.2 psf Exterior 57.2 psf Interior	0.042" 0.057"	0.384" 0.384"
5.2.6	Water Resistance (5.0 GPH/FT²) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads 64.8 psf Exterior 85.5 psf Interior	0.090" 0.056"	0.384" 0.384"
	TEST RESULTS SPE	CIMEN NO 6 (S)	
PARAGRAPH NO.	TITLE OF TEST	MEASURED	ALLOWED
5.2.7	Air Infiltration (ASTM E-283) 1.57 psf (25 mph)	0.02 CFM/FT <sup>2</sup>	0.20" CFM/FT <sup>2</sup>
5.2.4	Uniform Static Loads 1/2 of Full Load 32.4 psf Exterior 42.9 psf Interior Uniform Static Loads	0.074" 0.080"	0.384" 0.384"
	Design Loads 43.2 psf Exterior 57.2 psf Interior	0.083" 0.060"	0.384" 0.384"

5.2.6	Water Resistance (5.0 GPH/FT $^2$ ) WTP = 6.50 psf	No Entry	No Entry
5.2.5	Uniform Static Loads Full Loads 64.8 psf Exterior 85.8 psf Interior	0.146" 0.125"	0.384" 0.384"

#### ALL TEST COMPLETED: 08-16-94

Permanent set measured readings recorded using a shaft encoder - digital deflection measurer.

NOTE: At the conclusion of the testing no damage to the specimen was observed.

Structural Test Pressures of 64.8 psf exterior and 85.8 interior were achieved. (30 second durations)

The products tested meets the criteria for Chapter 2309 of the South Florida Building Code and Protocol P. 202-94.

Two (2) mill visqueen was used for uniform static loads and did not effect the specimen performance.

Detailed drawings were available for laboratory records and compared to the test specimen at the time of the report. A copy of this report along with representative sections of the test specimen will be retained by NCT for a period of four (4) years. The results obtained apply only to the specimen tested.

NATIONAL CERTIFIED TESTING

LABORATORIES, INC.

MICHAEL E. LANE

Professional Engineer Mr. Barry Portnoy 5767 Major Blvd. Orlando, FL 32819

MEL/Id



FEB - 4 PET

January 31, 2002

#### TO: OUR FLORIDA CUSTOMERS:

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

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

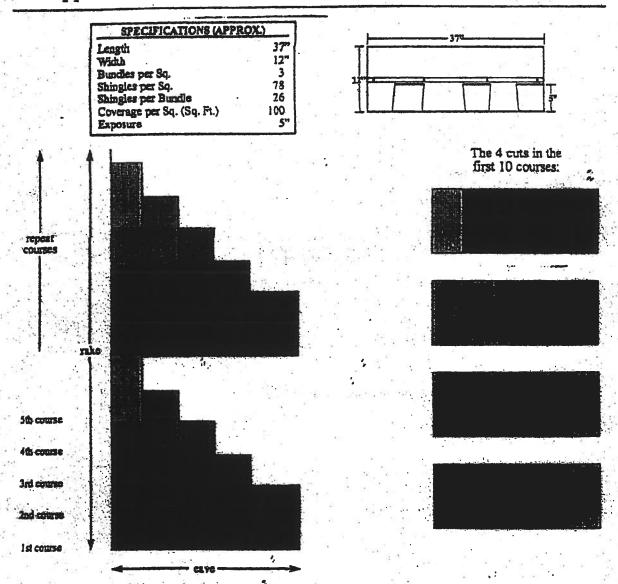
All testing was performed by Florida State certified independent labs.

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

TAMKO Roofing Products, Inc.



#### Application Instructions For Heritage® 25 Series Shingles

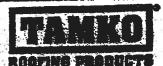


In the first 10 courses, there are 4 cuts and no waste.

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

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

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



#### Application Instructions for

#### · Glass-Seal ---

#### • Elite Glass-Seal\* • Elite Glass-Seal\* All

#### THERE TAN ASPHALT SHITGLES

These are the manufacturer's application instructions for the roofing conditions described. Tanko roofing products, inc. assumes no responsibility for leaks or other roofing defects resulting from failure to follow the manufacturer's instructions.

This product is govered by a limited warranty, the terms of which are printed on the wrapper. In cold weather (below 40%), 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 shirigles are for application to roof decks capable of receiving and rebaining fasteness, 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". Shirigles must be applied properly. TAMICO assumes no responsibility for lesits or defects resulting from improper application, or failure to properly prepare the surface to be roofed over.

NEWROOF DECK CONSTRUCTION: Roof deck must be smooth, dry and fee from warped surfaces. It is recommended that metal drip edges be included at eaves and rakes.

PLYMOCO: 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 Vreil-sessoned longue-andgroovs boards sharnot over 5 in. nominal width. Boards shall be st 1 in. nominal minimum shickness. Boards shall be properly spaced and nailed.

#### 2. TENTILETION:

inadequate vertilation 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 educate ventilation and circulation of air, place louvers of sufficient size high in the gable ende and/or install continuous ridge and

FHA minimum property standards require one square foot of not free ventilation area to each 150 square feet of space to be verted, or one square foot per 300 square feet if a veptir barrier is installed on the warm aide of the celling or if at least one half of the ventilation is provided near the fidge. If the ventilation openings are screened, the total area should be doubled.

IT IS PARTICULARLY IMPORTANT TO PROVIDE ADEQUATE VEHILLATION.

#### 3. PASTERNIE

MARS: TAMKO recommends the use of nails as the preleved method of scolication.

whith CAUTION: Extrame 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 impade the sealing of the adhesive strips on the shingles. The inability to seel 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 this performance of the shingle. If the fasteners are not placed as shown in the diagrafs and described below, TAMICO will not be responsible for any shingles blown off or displaced. TAMICO will not be responsible for damage to shingles caused by winds or guasti exceeding gale force. Gale force shall be the standard as defined by the U.S. Weather Sureau.

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

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



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



NAILS: TAMKO recommends the use of neits 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. Neits should be long anough to penetrate 3/4 in.

(Continued)

ation

Visit Our Web Site at www.tamko.com Central District Northeast District Southeast District Southwest District Western District 220 West 4th St., Joplin, MO 64801 4500 Temko Dr., Frederick, MD 21701 2300 35th St., Tuscalcosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ave., Denver, CO 60215

800-841-4691 800-368-2066 800-228-2658 800-443-1834

200-530-8888

. . .



SONT NOTED TOTAL PORTED. (2)

### Glass-Seal

# · Elite Glass-Seal® AR

THEFT. TAN ASPEALT SHIPS IN

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

#### E BENGSFIES

Refere re-motive, be certain to inspect the roof decks. All plywood shall meet the requirements tisted in Section 1:-

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

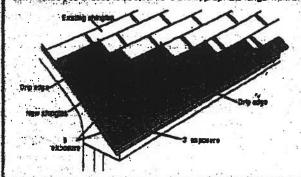
If re-moting over an existing roof where new flashing is required to protect against ice dams (freeze/thew cycle of water and/or the backup of water in frozen or diogged guillers), remove the old roofing to a point at least 24 in. beyond the interior wall the and apply TAMKO's Moisture Guard Plus waterproofing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

The needing productive described below is the preferred method for re-routing over agustic hib skip shingles with a 5 in. exposure.

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

First Gourse: Cut off approximately 2 in, from the bottom edge of the shingles so that the stangles at beneath the existing third course and allow with the edge of the starter stap. Start the first course with a full 36 in, long shingle and fasten according to the trestructions printed in Section I and the second second second

Biscord, and Succession Courses; According to the off-set applica-tion method you choose to use, remove the appropriate length from the



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

#### S. VALLEY APPLICATION

Over the shingle underlayment, center a 38 in, wide cheet of TANKO Nat-Past\* or a minimum 50 lb-roth roofing in the valley-Nati the fat only where necessary to hold it in place and then only nell the outside

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

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

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

- Extend the end shingle at less 112 ln, on to the adjoining roof. Apply successing courses in the Salind Market, assembly them boxes the valley and onto the adjoining roof.
- Do not trim if the shingle length exceeds 12 in. Lengths should vary.
- Press the shingles tightly into the valley.
   Use normal shingle fastening methods.

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

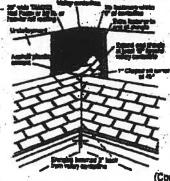
 To the adjoining roof plane, apply one row of shingles extending it over previously applied shingles, and birn ... a minimum of 2 in. back from the carterline of the

Note: For a neater installation, anap a challding over the shingles for epidence:

- City the upper comer of each shingle at a 45-degree engle and embed the end of the shingle in a 3 in. wide ship of sapheli plastic coment. This will prevent water from penetrating between the courses by directing it into the valley.
- CHIMON: Adhesha ment be applied in smooth, thin, even layers.

Excessive use of adhesive will cause blistering to this product.

TANKO assumes no resconsibility for blistering.



(Conlinued)

Visit Our Web Site at www.tamke.com

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Central District Northeast District Southeast District Southwest District Western District

220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dalles, TX 75216 5300 East 43rd Ave., Denver, CO 80216 800-541-4691 800-368-2056 800-228-2656 800-443-1834 800-530-8868

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(CONTINUED from Pg. 3)

- Glass-Seal Glass-Seal AR
- Elite Glass-Seal\*
   Elite Glass-Seal\* AR
- THREE-TAR ASPHALF SHIVELES

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

#### 10. HIP AND MINES PASTERING BETALL

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

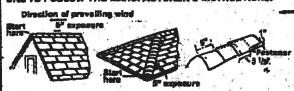
TANKO recommends the use of TANKO Hip & Ridge shingle products. Where matching colors are invalid by, it is acceptable to use TANKO's Glass-Seal or Elile Glass-Seal shingles out down to 12 in, please.

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

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

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

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



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

#### IMPORTANT - READ CAREFULLY BEFORE OPENING BUNDLE

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

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Central District Northeast District Southeast District Southwest District Wastern District

220 West 4th St., Joplin, MO 64801 4500 Tamko Dr., Frederick, MD 21701 2300 35th St., Tuscaloosa, AL 35401 7910 S. Central Exp., Dallas, TX 75216 5300 East 43rd Ava., Denver, CO 80218 800-841-4691 800-368-2066 800-228-2656 800-443-1834 800-530-8868

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97/01

#### **Residential System Sizing Calculation**

M/M M. IUEN

COLUMBIA COUNTY, FL

Summary Project Title: **IUEN** Residence

**Code Only Professional Version** 

Climate: North

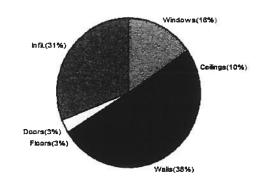
2/1/2006

				ZIUZUMU					
Location for weather data: Gainesville - Defaults: Latitude(29) Temp Range(M)									
Humidity data: Interior RH (50%)	Outdoor we	et bulb (	77F) Humidity difference(51gr.)						
Winter design temperature	31	F	Summer design temperature	93	F				
Winter setpoint	70	F	Summer setpoint	75	F				
Winter temperature difference	39	F	Summer temperature difference	18	F				
Total heating load calculation	39598	Btuh	Total cooling load calculation	38248	Btuh				
Submitted heating capacity	% of calc	Btuh	Submitted cooling capacity	% of calc	Btuh				
Total (Electric Heat Pump)	100.0	39600	Sensible (SHR = 0.75)	103.7	28650				
Heat Pump + Auxiliary(10.0kW)	186.2	73730	Latent	90.0	9550				
			Total (Electric Heat Pump)	99.9	38200				

#### WINTER CALCULATIONS

Winter Heating Load (for 1986 sqft)

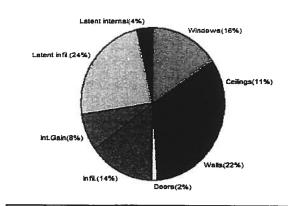
Load component			Load	
Window total	286	sqft	6149	Btuh
Wall total	2641	sqft	15112	Btuh
Door total	64	sqft	1148	Btuh
Ceiling total	1723	sqft	3962	Btuh
Floor total	1223	sqft	1100	Btuh
Infiltration	283	cfm	12126	Btuh
Subtotal			39598	<b>B</b> tuh
Duct loss			0	Btuh
TOTAL HEAT LOSS			39598	Btuh



#### **SUMMER CALCULATIONS**

Summer Cooling Load (for 1986 sqft)

Load component			Load	
Window total	286	sqft	6052	Btuh
Wail total	2641	sqft	8375	Btuh
Door total	64	sqft	639	Btuh
Ceiling total	1723	sqft	4306	Btuh
Floor total			0	Btuh
Infiltration	266	cfm	5268	Btuh
Internal gain			3000	Btuh
Subtotal(sensible)			27640	Btuh
Duct gain			0	Btuh
Total sensible gain		:	27640	Btuh
Latent gain(infiltration)			9228	Btuh
Latent gain(internal)			1380	Btuh
Total latent gain			10608	Btuh
TOTAL HEAT GAIN			38248	Btuh



EnergyGauge® System Sizing based on ACCA Manual J. PREPARED BY: DATE: AR7005

EnergyGauge® FLRCPB v3.30

#### **System Sizing Calculations - Winter**

# Residential Load - Component Details Project Title: IUEN Residence

M/M M. IUEN

COLUMBIA COUNTY, FL

Code Only **Professional Version** 

Climate: North

Reference City: Gainesville (Defaults) Winter Temperature Difference: 39.0 F

2/1/2006

Window	Panes/SHGC/Frame/U	Orientatio	n Area X	HTM=	Load
1	2, Clear, Wood, DEF	S	24.0	21.5	516 Btuh
2	2, Clear, Wood, DEF	S	6.0	21.5	129 Btuh
3	2, Clear, Wood, DEF	S	24.0	21.5	516 Btuh
4	2, Clear, Wood, DEF	\$ \$ \$	20.0	21.5	430 Btuh
5	2, Clear, Wood, DEF		12.0	21.5	258 Btuh
6	2, Clear, Wood, DEF	S	12.0	21.5	258 Btuh
7	2, Clear, Wood, DEF	E	12.0	21.5	258 Btuh
8	2, Clear, Wood, DEF	NE	8.0	21.5	172 Btuh
9	2, Clear, Wood, DEF	SE	8.0	21.5	172 Btuh
10	2, Clear, Wood, DEF	N	20.0	21.5	430 Btuh
11	2, Clear, Wood, DEF	N	10.0	21.5	215 Btuh
12	2, Clear, Wood, DEF	N	9.0	21.5	194 Btuh
13	2, Clear, Wood, DEF	N	9.0	21.5	194 Btuh
14	2, Clear, Wood, DEF	N	24.0	21.5	516 Btuh
15	2, Clear, Wood, DEF	N	24.0	21.5	516 Btuh
16	2, Clear, Wood, DEF	N	6.0	21.5 21.5	129 Btuh 516 Btuh
17	2, Clear, Wood, DEF	N W	24.0 12.0	21.5	258 Btuh
18 19	2, Clear, Wood, DEF 2, Clear, Wood, DEF	W	12.0	21.5	258 Btuh
20	2, Clear, Wood, DEF	W	10.0	21.5	215 Btuh
20	Z, Clear, Wood, DEI	**	10.0	21.0	210 Dtuli
	Window Total		286		6149 Btuh
Walls	Туре	R-Value	Area X	HTM=	Load
1	Log (6 inch) - Exterior	0.0	1834	6.7	12287 Btuh
2	Frame - Exterior	11.0	807	3.5	2825 Btuh
	Wall Total		2641	2	15112 Btuh
Doors	Туре		Area X	HTM=	Load
1	Wood - Exter		14	17.9	251 Btuh
2 3	Wood - Exter		20	17.9	359 Btuh
3	Wood - Exter		20	17.9	359 Btuh
4	Wood - Exter		10	17.9	179 Btuh
	Door Total	· · · · · · · · · · · · · · · · · · ·	64		1148Btuh
Cellings	Туре	R-Value	Area X	HTM=	Load
1 1	Single Assembly	15.5	1723	2.3	3962 Btuh
	Ceiling Total		1723		3962Btuh
Floors	Type	R-Value	Size X	HTM=	Load
1 1	Raised Wood/Enclosed	19	1222.5 sqft	0.9	1100 Btuh
	Floor Total		1223		1100 Btuh
Infiltration	Туре	ACH X	Building Volume	CFM=	Load
	Natural	0.40	19860(sqft)	133	5691 Btuh
	Mechanical		· ()	150	6435 Btuh
	Infiltration Total			283	12126 Btuh

#### **Manual J Winter Calculations**

Residential Load - Component Details (continued)

M/M M. IUEN

COLUMBIA COUNTY, FL

Project Title: IUEN Residence

Code Only

Professional Version

Climate: North

2/1/2006

	Subtotal	39598 Btuh
Totals for Heating	Duct Loss(using duct multiplier of 0.00)	0 Btuh
	Total Btuh Loss	39598 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 - Manual J Heat Transfer Multiplier)

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

#### **System Sizing Calculations - Summer**

## Residential Load - Component Details Project Title:

M/M M. IUEN

COLUMBIA COUNTY, FL

**IUEN** Residence

Code Only Professional Version

Climate: North

Reference City: Gainesville (Defaults)

Summer Temperature Difference: 18.0 F

2/1/2006

	Type		Over	hang	Win	dow Area	a(sqft)	Н	TM	Load	
Window	Panes/SHGC/U/InSh/ExSh O	rnt	Len	Hgt	Gross	Shaded	Unshaded	Shaded	Unshaded		
1	2, Clear, DEF, B, N	s	10	5	24.0	24.0	0.0	15	24	360	Btuh
2	2, Clear, DEF, B, N	s	10	4.30	6.0	6.0	0.0	15	24	90	Btuh
3	2, Clear, DEF, B, N	s	10	5	24.0	24.0	0.0	15	24	360	Btuh
4	2, Clear, DEF, B, N	s	2	5.90	20.0	20.0	0.0	15	24	300	Btuh
5	2, Clear, DEF, B, N	s	1.29	7.30	12.0	12.0	0.0	15	24	180	Btuh
6	2, Clear, DEF, B, N	s	1.29	7.30	12.0	12.0	0.0	15	24	180	Btuh
7	2, Clear, DEF, B, N	Ε	0.30	4.80	12.0	0.0	12.0	15	46	552	Btuh
8	2, Clear, DEF, B, N	NE	0.30	4.80	8.0	0.0	8.0	15	32	256	Btuh
9	2, Clear, DEF, B, N	SE	0.30	4.80	8.0	0.0	8.0	15	40	320	Btuh
10	2, Clear, DEF, B, N	N	2	5.90	20.0	0.0	20.0	15	15	300	Btuh
11	2, Clear, DEF, B, N	N	10	6.69	10.0	0.0	10.0	15	15	150	Btuh
12	2, Clear, DEF, B, N	N	10	3.70	9.0	0.0	9.0	15	15	135	Btuh
13	2, Clear, DEF, B, N	N	10	3.70	9.0	0.0	9.0	15	15	135	Btuh
14	2, Clear, DEF, B, N	N	10	5	24.0	0.0	24.0	15	15	360	Btuh
15	2, Clear, DEF, B, N	N	2	5.30	24.0	0.0	24.0	15	15	360	Btuh
16	2, Clear, DEF, B, N	N	2	3.79	6.0	0.0	6.0	15	15	90	Btuh
17	2, Clear, DEF, B, N	N	2	5.30	24.0	0.0	24.0	15	15	360	Btuh
18	2, Clear, DEF, B, N	w	2	13.3	12.0	0.0	12.0	15	46	552	Btuh
19	2, Clear, DEF, B, N	w	2	13.3	12.0	0.0	12.0	15	46	552	Btuh
20	2, Clear, DEF, B, N	w	2	12.3	10.0	0.0	10.0	15	46	460	Btuh
	Window Total				286					6052	Dtub
Walls	Туре		R-	Value	200	<u> </u>	\rea		НТМ	Load	Dian
1	Log (6 inch) - Exterior			0.0			833.9		3.7	6809	Btuh
2	Frame - Exterior			11.0			107.2		1.9	1566	Btuh
	0.0000000000000000000000000000000000000									1500	Dian
	Wall Total						341.1			8375	Btuh
Doors	Туре						\rea		HTM	Load	
1	Wood - Exter						14.0		10.0	140	Btuh
2	Wood - Exter						20.0		10.0	200	Btuh
3	Wood - Exter						20.0		10.0	200	Btuh
4	Wood - Exter					•	10.0		10.0	100	Btuh
	Door Total					6	4.0			639	Btuh
Ceilings	Type/Color		R-V	/alue	<del></del>		rea		HTM	Load	
1	Single Assembly/Dark		•	15.5			722.5		2.5	4306	Btuh
	Ceiling Total					17	22.5			4306	Rhih
Floors	Туре		R-V	/alue			Size		нтм	Load	ווטוט
1	Raised Wood			19.0			222.5 sqft		0.0		Btuh
	Floor Total					12	22.5			0	Btuh

#### **Manual J Summer Calculations**

Residential Load - Component Details (continued)

Project Title:

Cod

M/M M. IUEN

COLUMBIA COUNTY, FL

**IUEN Residence** 

Code Only

**Professional Version** 

Climate: North

2/1/2006

Infiltration	Туре	ACH	Volume	CFM=	Load	
	Natural	0.35	19860	116.1	2298	Btuh
1	Mechanical			150	2970	Btuh
	Infiltration Total			266	5268	Btuh

Internal	Occupants	Bt	uh/occu	pant	Appliance	Load	
gain	6	X	300	+	1200	3000	Btuh

	Subtotal	27640	Btuh
	Duct gain(using duct multiplier of 0.00)	0	Btuh
	Total sensible gain	27640	Btuh
Totals for Cooling	Latent infiltration gain (for 51 gr. humidity difference)	9228	Btuh
	Latent occupant gain (6 people @ 230 Btuh per person)	1380	Btuh
	Latent other gain	0	Btuh
	TOTAL GAIN	38248	Btuh

Key: Window types (SHGC - Shading coefficient of glass as SHGC numerical value or as clear or tint) (U - Window U-Factor or 'DEF' for default)

(InSh - Interior shading device: none(N), Blinds/Daperies(B) or Roller Shades(R)) (ExSh - Exterior shading device: none(N) or numerical value)

(Ornt - compass orientation)

Project Name:

Address:

**IUEN Residence** 

#### FLORIDA ENERGY EFFICIENCY CODE FOR BUILDING CONSTRUCTION

Florida Department of Community Affairs Residential Whole Building Performance Method A MeClellan
Office: COLUMBIA

Builder:

Permitting Office:

Address: City, State: Owner: Climate Zone:	COLUMBIA COUNTY, FL M/M M. IUEN North	Permit Number: 243// Jurisdiction Number: 221	<del>00</del> 0
a. U-factor: (or Single or Deb. SHGC: (or Clear or Ti 8. Floor types a. Raised Wood, Sb. N/A c. N/A 9. Wall types a. Log, 6 inch, Exb. Frame, Wood, I c. N/A d. N/A e. N/A 10. Ceiling types a. Single Assemble b. N/A c. N/A 11. Ducts	multi-family , if multi-family , if multi-family  coms  ase?  Yes or area (ft²)  area: (Label reqd. by 13-104.4.5 if not default)  Description Area  puble DEFAULT)  Ta. (Dble Default) 286.0 ft²  art DEFAULT)  Tb. (Clear) 286.0 ft²  Stem Wall  R=19.0, 1222.5ft²  terior  R=0.0, 1833.9 ft²  R=11.0, 807.2 ft²	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,	Cap: 38.2 kBtu/hr SEER: 13.00 Cap: 39.6 kBtu/hr HSPF: 8.70 Cap: 50.0 gallons CF; 0.93 CF,
		uilt points: 31155 ase points: 31570  PASS	

icates compliance a Energy Code. action is completed iill be inspected for th Section 553.908 es.  OFFICIAL:

<sup>1</sup> Predominant glass type. For actual glass type and areas, see Summer & Winter Glass output on pages 2&4. EnergyGauge® (Version: FLRCSB v4.0)

# Code Compliance Checklist Residential Whole Building Performance Method A - Details

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

#### **WATER HEATING & CODE COMPLIANCE STATUS**

Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL, PERMIT #:

	BASE						AS-BUILT								
WATER HEA Number of Bedrooms	TING X	Multiplier	=	Total	Tank Volume	EF	Number of Bedrooms	X	Tank X Ratio	Multiplier X	Credit =				
3		2635,00		7905.0	50.0	0.93	3		1.00	2606.67	1.00	7820.0			
					As-Built To	tal:						7820.0			

	CODE COMPLIANCE STATUS												
		BAS	E						1	<b>4S</b> -	BUILT		
Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points	Cooling Points	+	Heating Points	+	Hot Water Points	=	Total Points
12610		11056		7905		31570	11916		11418		7820		31155

PASS



#### WINTER CALCULATIONS

#### Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL, PERMIT #:

	BASE			AS-BUILT		
CEILING TYPES	SArea X B	WPM =	Points	Type R-Value Area X WPM X W	>M =	Points
Under Attic	1222.5	2.05	2506.1	Single Assembly 15.5 1722.5 2.17 X 1.00		3746.4
Base Total:	1222.5		2506.1	As-Built Total: 1722.5		3746.4
FLOOR TYPES	Area X B	SWPM =	Points	Type R-Value Area X WP	/l =	Points
Slab Raised	0.0(p) 1222.5	0.0 0.96	0.0 1173.6	Raised Wood, Stem Wall 19.0 1222.5 0.80		978.0
Base Total:			1173.6	As-Built Total: 1222.5		978.0
INFILTRATION	Area X B	SWPM =	Points	Area X WPI	/I =	Points
	1986.0	-0.59	-1171.7	1986.0 -0.5	9	-1171.7
Winter Base	Points:	1	7621.6	Winter As-Built Points:	2	3151.3
Total Winter X Points	System Multiplier		nting Points	Total X Cap X Duct X System X Cred Component Ratio Multiplier Multiplier Multip (System - Points) (DM x DSM x AHU)		Heating Points
17621.6	0.6274	1	1055.8	(sys 1: Electric Heat Pump 39600 btuh ,EFF(8.7) Ducts:Con(S),Unc(R), 23151.3 1.000 (1.006 x 1.169 x 1.07) 0.392 1.000 23151.3 1.00 1.258 0.392 1.000	, ,	),R6.0 11418.5 <b>1418.5</b>

#### **WINTER CALCULATIONS**

#### Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

	BASI				,	AS	-BU	LT				
GLASS TYPES .18 X Condition	oned X I	BWPM =	= Points	Type/SC	Ove Omt	erhanç Len	_	Area X	WPN	1 X	WOF	= Point
.18 1986	3.0	12.74	4554.3	Double, Clear	S	10.0	5.0	24.0	13.30		3.51	1118.7
				Double, Clear	s	10.0	4.3	6.0	13.30		3.57	285.2
				Double, Clear	S	10.0	5.0	24.0	13.30		3.51	1118.7
				Double, Clear	S	2.0	5.9	20.0	13.30		1.27	337.9
				Double, Clear	S	1.3	7.3	12.0	13.30		1.03	164.7
				Double, Clear	S	1.3	7.3	12.0	13.30		1.03	164.7
				Double, Clear	E	0.3	4.8	12.0	18.79		1.00	226.4
				Double, Clear	NE	0.3	4.8	8.0	23.57		1.00	188.4
				Double, Clear	SE	0.3	4.8	8.0	14.71		1.01	118.5
				Double, Clear	N	2.0	5.9	20.0	24.58		1.00	494.0
				Double, Clear	N	10.0	6.7	10.0	24.58		1.02	251.3
				Double, Clear	N	10.0	3.7	9.0	24.58		1.03	227.2
				Double, Clear	N	10.0	3.7	9.0	24.58		1.03	227.2
				Double, Clear	N	10.0	5.0	24.0	24.58		1.03	604.6
				Double, Clear	N	2.0	5.3	24.0	24.58		1.01	593.4
				Double, Clear	N	2.0	3.8	6.0	24.58		1.01	148.9
				Double, Clear	N	2.0	5.3	24.0	24.58		1.01	593.4
				Double, Clear	W	2.0	13.3	12.0	20.73		1.01	250.2
				Double, Clear	w	2.0	13.3	12.0	20.73		1.01	250.2
				Double, Clear	W	2.0	12.4	10.0	20.73		1.01	208.7
				As-Built Total:				286.0				7572.2
WALL TYPES	Area X	BWPM	= Points	Туре		R-	Value	Area	X W	/PM	=	Points
Adjacent	0.0	0.00	0.0	Log, 6 inch, Exterior			0.0	1833.9	-	1.50		8252.5
Exterior	2641.1	3.70	9772.1	Frame, Wood, Exterior			11.0	807.2		3.70		2986.6
Base Total:	2641.1		9772.1	As-Built Total:				2641.1				11239.2
DOOR TYPES	Area X	BWPM	= Points	Туре				Area	x w	PM	=	Points
Adjacent	0.0	0.00	0.0	Exterior Wood		·		14.0	12	2.30		172.2
Exterior	64.0	12.30	787.2	Exterior Wood				20.0		2.30		246.0
				Exterior Wood				20.0		2.30		246.0
				Exterior Wood				10.0		.30		123.0
Base Total:	64.0		787.2	As-Built Total:				64.0				787.2

#### **SUMMER CALCULATIONS**

#### Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL, PERMIT #:

	BASE				AS-BU	ILT		
CEILING TYPES	S Area X B	SPM =	Points	Туре	R-Value	Area X SP	M X SCM =	Points
Under Attic	1222.5	1.73	2114.9	Single Assembly	15.5	1722.5 6.5	1 X 1.00	11222.1
Base Total:	1222.5		2114.9	As-Built Total:		1722.5		11222.1
FLOOR TYPES	Area X B	SPM =	Points	Туре	R-Value	Area >	SPM =	Points
Slab Raised	0.0(p) 1222.5	0.0 3.99	0.0 -4877.8	Raised Wood, Stem Wall	19.0	1222.5	-1.50	-1833.8
Base Total:			-4877.8	As-Built Total:		1222.5		-1833.8
INFILTRATION	Area X B	SPM =	Points		·	Area X	SPM =	Points
	1986.0	10.21	20277.1			1986.0	10.21	20277.1
Summer Bas	e Points:	29558.	.4	Summer As-Built Po	oints:	-	4	0633.7
Total Summer ) Points	K System Multiplier		oling oints	Total X Cap X Component Ratio (System - Points) (DM		System X Multiplier	Credit = Multiplier	Cooling Points
29558.4	0.4266	12	609.6	(sys 1: Central Unit 38200 btuh ,SI 40634 1.00 (1.0 40633.7 1.00	EER/EFF(13.0) Duct 00 x 1.147 x 1.02) <b>1.176</b>	s:Con(S),Unc(R) 0.263 <b>0.263</b>	0.950	s) 11916.0 <b>1916.0</b>

#### **SUMMER CALCULATIONS**

#### Residential Whole Building Performance Method A - Details

ADDRESS: -, COLUMBIA COUNTY, FL,

PERMIT #:

	BASE					AS-	-BUI	LT				
GLASS TYPES .18 X Condition Floor A	ned X B	SPM =	Points	Type/SC	Ove Omt	erhang Len	•	Area X	SPI	νX	SOF	= Points
.18 1986	.0	20.04	7163.9	Double, Clear	s	10.0	5.0	24.0	35.8	7	0.45	388.3
				Double, Clear	S	10.0	4.3	6.0	35.8	7	0.44	95.2
				Double, Clear	S	10.0	5.0	24.0	35.8	37	0.45	388.3
				Double, Clear	S	2.0	5.9	20.0	35.8	17	0.77	552.2
				Double, Clear	S	1.3	7.3	12.0	35.8	<b>17</b>	0.93	400.8
				Double, Clear	S	1.3	7.3	12.0	35.8	17	0.93	400.8
				Double, Clear	Ε	0.3	4.8	12.0	42.0	16	1.00	503.2
				Double, Clear	NE	0.3	4.8	8.0	29.5	6	1.00	236.0
				Double, Clear	SE	0.3	4.8	8.0	42.7	<b>'</b> 5	1.00	341.7
				Double, Clear	N	2.0	5.9	20.0	19.2	:0	0.90	344.4
				Double, Clear	N	10.0	6.7	10.0	19.2	20	0.65	125.8
				Double, Clear	N	10.0	3.7	9.0	19.2	20	0.59	102.8
				Double, Clear	N	10.0	3.7	9.0	19.2	.0	0.59	102.8
				Double, Clear	N	10.0	5.0	24.0	19.2	20	0.62	287.2
				Double, Clear	N	2.0	5.3	24.0	19.2	20	0.88	405.2
				Double, Clear	N	2.0	3.8	6.0	19.2	0	0.82	94.5
				Double, Clear	N	2.0	5.3	24.0	19.2	0.	0.88	405.2
				Double, Clear	W	2.0	13.3	12.0	38.5	2	0.98	452.6
				Double, Clear	W	2.0	13.3	12.0	38.5	2	0.98	452.6
			:	Double, Clear	W	2.0	12.4	10.0	38.5	2	0.97	375.1
				As-Built Total:				286.0				6454.8
WALL TYPES	Area X	BSPM	= Points	Туре		R-	Value	Area	X	SPN	1 =	Points
Adjacent	0.0	0.00	0.0	Log, 6 inch, Exterior			0.0	1833.9	_	1.50	_	2750.9
Exterior	2641.1	1.70	4489.9	Frame, Wood, Exterior			11.0	807.2		1.70		1372.2
Base Total:	2641.1		4489.9	As-Built Total:				2641.1				4123.1
DOOR TYPES	Area X	BSPM	= Points	Туре				Area	X	SPN	<b>/</b> =	Points
Adjacent	0.0	0.00	0.0	Exterior Wood				14.0	-	6.10		85.4
Exterior	64.0	6.10	390.4	Exterior Wood				20.0		6.10		122.0
				Exterior Wood				20.0		6.10		122.0
				Exterior Wood				10.0		6.10		61.0
Base Total:	64.0		390.4	As-Built Total:				64.0				390.4



GEISLER

ARCHITECT
N.C.A.R.B. Certified

1758 NW Brown Road
Lake City, FL 32055
386/755-9021

#### LOG HOME WIND LOAD ANALYSIS, PER FBC 1609

FLORIDA BUILDING CODE 2004, OCTOBER 2005 EDITION

PROJECT

Iven Residence - 2K544

PROJECT LOCATION: Columbia County, FL

ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE, 2004 EDITION.					
110 MPH					
1 = 1.00					
CATAGORY II					
"B"					
4/- ∅.18					
ROOF: - 23,1 PSF WALLS: + 26,6 PSF EAVES: - 32,3 PSF					
OP'NGS: + 21.8 / - 29.1 PSF EAVES: - 68.3 PSF ROOF: + 19.9 / - 25.5 PSF					

#### NOTE:

MANY LOADING CONDITIONS REQUIRE ONLY A FRACTION OF THE ABOVE WORST CASE LOADING, HOWEVER, THIS DESIGN SHALL EMPLOY ONLY THESE WORST CASE LOADS NOTED ABOVE.

JOINT	IS UNDER CONSIDERATION:	DESIGN DEAD LOADS:	
<b>&gt;</b> 1.	PORCH RAFTER TO BEAM	PORCH ROOF	9.6 PSF
<b>2</b> 2.	PORCH BEAM TO POST	6X8 BEAMS	12.0 PLF
☑ 3.	PORCH POST TO FOUNDATION	6×6 POSTS	6.0 PLF
<b>4</b> .	PORCH RAFTER TO MAIN ROOF	PORCH DECK	8.6 PSF
<b>№</b> 5.	MAIN ROOF TO LOG WALL	TIMBER ROOF	10.0 PSF
X6.	MAIN ROOF TO FRAME WALL	LUMBER ROOF	9.2 PSF
<b>▼</b> 7.	PORCH RAFTER TO FRAME WALL	TRUSS ROOF	9.2 PSF
M 8.	FRAME WALL TO LOG WALL	2nd FLOOR	9.9 PSF
<b>M</b> 9.	LOG WALL TO FOUNDATION	lst FLOOR (WOOD)	6.9 PSF
<b>1</b> 0.	PORCH SHEATHING	STEM WALL	410 PLF
<b>⋈</b> 11.	MAIN ROOF SHEATHING	LOG WALL	12.5 PSF
□ 12.		FRAME WALL/LOG SIDING	10.1 PSF
□ 13.		REINFORCED CONCRETE	150 PCF
☐ 14.		SOIL	120 PCF
☐ 15.		NOMINAL 6" LOGS	12.5 PSF
□ 16.			
□ 17.	- 0	· · · · · · · · · · · · · · · · · · ·	
	Man DV-1		Revid 18 JUN 2K2 Revid 24 APR 2K2 Revid 24 DEC 2K1 11 AUG 98
/	ANDOUS OF FEBRER		



NATIONAL FOREST PRODUCTS ASSOCIATION: National Design Specifacation for Stress Grade Lumber and its Fastenings

LAG SCREW DESIGN VALUES for GROUP III SOUTHERN CYPRESS S.G. = 0.49

Lags develop full strength in this group a 10 diameters of threaded penetration.

 $^{1}4$ " $\phi$  LAGS = 0.25  $\times$  10 = 2.5"  $^{3}6$ " $\phi$  LAGS = 0.375  $\times$  10 =  $3^{3}4$ "  $^{1}2$ " $\phi$  LAGS = 0.50  $\times$  10 = 5"  $^{5}6$ " $\phi$  LAGS = 0.625  $\times$  10 =  $6^{1}4$ "  $^{3}4$ " $\phi$  LAGS = 0.75  $\times$  10 =  $7^{1}2$ "  $\rightarrow$  maximum working penetration

Side Grain Withdrawal: Normal Duration  $\times$  1.33 = wind design load.

 $\frac{1}{4}$ "¢ @ 218#/in × 2.50" = 545\* × 133% = 725\* wind design load  $\frac{3}{6}$ "¢ @ 296\*/in × 3.75" =  $\frac{1110}{2}$  × 133% = 1480\* wind design load  $\frac{1}{2}$ "¢ @ 366\*/in × 5.0" = 1830\* × 133% = 2439\* wind design load  $\frac{5}{6}$ "¢ @ 432\*/in × 6.25" = 2700\* × 133% = 3599\* wind design load  $\frac{3}{4}$ "¢ @ 497\*/in × 7.50" = 3728\* × 133% = 4969\* wind design load

End Grain Withdrawal: 75% Side Grain Withdrawal - NO INCREASE

Laterial Loads w/ Metal Side Plates, 3"/5" Lags, Normal Duration

Lag	Parallel	Perpendicular
Dia.	to grain	to grain
3/8"	230/470 295/610 350/720 - /855	140/295 155/315 170/345 - /375

Side Plate maximum thickness = 1/2"

#### NOTE !!!

Calculations for FBC 2001 Section 1606 Compliance use Normal Duration values for lag screw fasteners, unless noted otherwise.



NATIONAL FOREST PRODUCTS ASSOCIATION: National Design Specifacation for Stress Grade Lumber and its Fastenings

#### BALDCYPRESS MECHANICAL PROPERTIES / STRUCTURAL DATA

SPECIFIC	MODULUS OF	MODULUS OF	COMPRESSION PARALLEL	SHEAR PARALLEL TO	TENSION PERPENDICULAR
GRAVITY	RUPTURE	ELASTICITY	TO GRAIN - MAXIMUM	GRAIN - MAXIMUM	TO GRAIN - MAXIMUM
0.42	6600 PSI	I.18 MPS1	3580 PSI	810 PSI	300 PSI
0.46	10600 PSI	I.44 MPS1	6360 PSI	1000 PSI	270 PSI
95th %	6800 PSI	1.193 MPSI	3719 PSI	820 PSI	272 PSI

#### WORKING STRESSES - 95th PERCENTILE - JOIST/BEAM/GIRDER DESIGN BALDCYPRESS - GRADE 2 OR BETTER

Fb ·	E	Fc ·	Fv	т.
1360 PSI	1.193 MPSI	744 PSI	15 PSI	54 PSI

- · 95th PERCENTILE / 5
- " 95th PERCENTILE / II

#### ALLOWABLE LOADS FOR SPLIT RING CONNECTORS BALDCYPRESS - DRY INSIDE LOCATION

	LOAD ® 0" ANGLE TO GRAIN	LOAD ® 90° ANGLE TO GRAIN	
21/2" + SPLIT RING, 1/2" + BOLT	2085 LBS	1230 LBS	
4" + SPLIT RING, 3/4" + BOLT	3985 LBS	2310 LBS	

#### FIRE RESISTANCE

RED OAK 100 CYPRESS 145 - 150

#### SAFE LATERAL STRENGTH OF COMMON NAILS \*

	SIZE OF NAIL						
LENGTH OF NAIL **	6d	8d	10d	12d	16d	20d	30d
	2	21/2	3	31/4	3½	4	4½
WESTERN RED CEDAR	28	35	41	43	48	63	69
CYPRESS / EASTERN HEMLOCK	48	59	70	72	81	106	117
SOUTHERN PINE	63	78	92	95	107	139	154
EASTERN SPRUCE	40	49	58	60	67	87	97

CLINCHED NAILS (MIN. 3 NAIL DIAMETERS): 2.0 × ABOVE NAILS THROUGH METAL SIDE PLATES: 1.25 × ABOVE NAILS DRIVEN INTO END GRAIN: 0.61 × ABOVE TOENAILS (45° TO 55° ANGLE): 0.83 × ABOVE SAFE WITHDRAWL LOADS (TENSION PARALLEL TO SHANK) 0.33 × ABOVE PER INCH OF PENETRATION.

- \* MEASURED IN POUNDS PER NAIL DRIVEN NORMAL TO SIDE GRAIN OF WOOD.
- \*\* LENGTH OF PENETRATION OF NAIL INTO PARENT WOOD, IN INCHES.

2. (onch Beaum to Past:

Lowel - 2("1, above): 2(544.8) = -1089.6"

06 - 8 × 12" = 94.0"

-913.6" actuplish

allowable us "Sumpson" 12127 - 4(1110)(75) + 315 = 3645 > -993.6 .: OK

3. Porch Post to Foundation:

Loud from # 2, above: - 973.6"

OL 10 post 8 10 6"

- 945.6" net - plett.

use as production A/A.13
allowable usy "Sumpson" ABUGG = 2300# > -945.6" .: OK

4. Parch Ragter to Main Roof:

100d: "1, alliene: -544.8"

USE: as per retail A/A.13

Allamare: 2(1110): 7270">-544.8" .. OK

5. Main Roof to Log Wall:

Lood; = # 4, above - 544.8\*

Lood; = 4 × 12 × -23.1" = 1293.6\*

OL - 5255 (20 10.0" = -1278.4" net upleft.

USE 20 per detail A/A.13

allowable = 2(1110) = 2220# > -1278.4" : OK

6. Main Roof to France Wall:

Load: 2'x4'x-32.3" - 258.4"

Load: 4'x14'x-23.1" -1293.6"

OL + 4'x16'x10.0":

-912.0" @48" %

we as per ditail C.1/A.14

allowable w/ 2(110) = 2220" > 912.0" :: 614

Load /strat = 912.0/3 = -304 "

anchor Plate to strate w/ "Sumporn" RSP4 (2)

allowable: 450 " > 304" :: 0K

MSE as per eletail D.1/A.16

allowable w/2(110) = 2220 + > -361.6 + .: 0/6

ancher db1 Plate to adjuning state w/2.434 caps as

per "Sumpson": 2(240) = 480(1) = 960 + 7-361.6 + .: 0/6

8. France world to Log world:

Load; = "6, above/stud" - 304.0"

Load; - "7, above/stud" - 180.8"

DL = 8.08 × 1.33 × 10.1" - 108.5"

- 376.3"/stud applicat

War: "Sumpson" SPI

allowable = 585" > -376.3" = 0K

encl. or 51 & to he go w/1-36"6 × 8" L S. & 2" dworld

D 29" 0/6 + how out.

9. Logwall to Foundation:

DL = 8,75' (20 12.5" = Med Lapart: -210.2"/LF

allowable = 1110/2 = 555 1/6 > 376.3/1.33 : 0K

WE repudetale 6/4.12 & B/A.8

allow while @ c/A.12 = 1110/2 = 555 =/LF > -210.2 : OK " B/A.3 = 1880/4 = 470 /LF > -210.24 : OK OL @ stem world > 422.0 = > -210.2 = : OK

10. Pack Sheathering.

Local \* , 42 x 4 1 x - 68:3 \* -114.7 \*/board/Partitions

16d nails in CYP = 81(.33) = 26.7 \*/meh st penetration

16d nails = 3 1/2" - 1 1/2 (26.7) = 53.4 \*/nail pullout Penetration

Nails Regist \* 114.7 /53.6 = 2.14 or 3 nails

USE = 3-16d nails ea. board, ea R-fter

allowable \* 3(53.4) - 160.2 \* 7-114.7 1:016

He Main Roof Sheathurin: Load - 4 78 x - 25.5 " = - 816# 8 duails in SYP = 78 (33) = 25.7 \$ / mch of penetral 11 8-(nails = 21/2" - 1/2" (25.7) = 51.4 = / nail shall out rear touch nanty Progit " 816/51+ 15,9 ~ 16 naily MBE Edward to 4" Te ends, 8" % field to tal nails (48/4+1)(2) + (48/2+1)(3) = 47 nails allowable = 47 (51.4) = 2415.2 = >-816.0 = : 0 K 12 Trust to France Work! Lovel, = 2 / 2 / x:33.3 -129.2" Lee 1 2 7 12 x -73.1 = -554.4 # DL . 2 744 7 9.6 = 268.8" -414.8 notupe 1t use "Semeo" HOPEZ W/ 4-10 droke allowable: 640 > - 914.8" 1.00 N andrew Top Place to Street, who plywood sheather, so showed we street with the 4" of ends, 8" of full.

allowater 960(4) 1404 > 7(414.8) .: ok 13. Frame was to Forfragation. Load from \$ 12, above - 2(410,8) 3 = -276.13 #/stucks DL @ walch & (a 1011: NES.33 HETHISCULT Use: ply word sheather, w/ & drails (a4" of ends, 8" of field. of anchor study to sell plate /emchor sill plate to core. w/1/2" BAB (a 48"

allowoble = 4800/4 = 1200 => -195.33 = .: 0 K

# ENERGY PERFORMANCE LEVEL (EPL) DISPLAY CARD

#### ESTIMATED ENERGY PERFORMANCE SCORE\* = 82.9

The higher the score, the more efficient the home.

#### M/M M. IUEN, -, COLUMBIA COUNTY, FL,

1.	New construction or existing	New	_ 12		Cooling systems Central Unit	Cap: 38.2 kBtu/hr	
2.	Single family or multi-family	Single family		a.	Central Onit	SEER: 13.00	_
3.	Number of units, if multi-family	1	_	L	N/A	DILLA 13.00	_
4.	Number of Bedrooms	3		Đ.	N/A		_
5.	Is this a worst case?	Yes		_	NT/A		_
6.	Conditioned floor area (ft²)	1986 ft²		C.	N/A		_
<b>7</b> .	Glass type 1 and area: (Label reqd. b		1.	2	Hanting mutama		_
8.	U-factor:	Description Area	1.		Heating systems Electric Heat Pump	Cap: 39.6 kBtu/hr	
	(or Single or Double DEFAULT)	7a. (Dble Default) 286.0 ft <sup>2</sup>	_	a.	Electric Heat Fump	HSPF: 8.70	_
b.	SHGC:				27/4	11SFF. 6.7V	
	(00 00000 00 00000 00000	7b. (Clear) 286.0 ft <sup>2</sup>		D.	N/A		_
	Floor types				27/4		
a.	Raised Wood, Stem Wall	R=19.0, 1222.5ft <sup>2</sup>	_	C.	N/A		-
b.	. N/A				**		
	N/A		1		Hot water systems	Cap: 50.0 gallons	
	Wall types		**	a.	Electric Resistance	EF: 0.93	_
	Log, 6 inch, Exterior	R=0.0, 1833.9 ft <sup>2</sup>	-	80	27/4	Er. 0.93	
b	Frame, Wood, Exterior	R=11.0, 807.2 ft <sup>2</sup>	_	Þ.	N/A		
	N/A				0		
d.	. N/A				Conservation credits		_
-	N/A				(HR-Heat recovery, Solar		
	Ceiling types			_	DHP-Dedicated heat pump)	CF,	
8.	Single Assembly	R=15.5, 1722.5 ft <sup>2</sup>		Э.	HVAC credits	Cr,	_
b	. N/A		_		(CF-Ceiling fan, CV-Cross ventilation,		
C.	N/A		_		HF-Whole house fan,		
	Ducts				PT-Programmable Thermostat,		
a	. Sup: Con. Ret: Unc. AH: Outdoors	Sup. R=6.0, 125.0 ft	-		MZ-C-Multizone cooling.		
ь	. N/A		_		MZ-H-Multizone heating)		
Cor in t bas Bui	ertify that this home has complinistruction through the above er his home before final inspection ed on installed Code compliantilder Signature:	nergy saving features whin the control of the contr	ch will b Display Date: _	e i	nstalled (or exceeded) ard will be completed		Vanioni
Ad	dress of New Home:		City/FI	LΖ	ip:	COD WE TRU	7

\*NOTE: The home's estimated energy performance score is only available through the FLA/RES computer program. This is <u>not</u> a Building Energy Rating. If your score is 80 or greater (or 86 for a US EPA/DOE EnergyStd<sup>M</sup> 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 Gauge® (Version: FLRCSB v4.0) ATTENTION: WEEGIE

# **Columbia County Building Department Culvert Waiver**

Culvert Waiver No. 000001028

		000001	1020
DATE: 03/28/2006 BUILDING PERMIT NO	D. 74311		
APPLICANT LINDA RODER	PHONE	752-2281	
ADDRESS 387 SW KEMP CT	LAKE CITY	FL	32024
OWNER MARC & TAMMY IUEN	PHONE		
ADDRESS 1149 SW FAULKNER DR	FT WHITE	FL	32038
CONTRACTOR MIKE MCCLELLAN	PHONE	623-3820	
LOCATION OF PROPERTY 47 S, R 240, L ICHETUCKNEE	AVE, L FAULKNER A	VE,	
ABOUT .5 MILES ON LEFT AT GATE			
SUBDIVISION/LOT/BLOCK/PHASE/UNITPINE ACRES UT	NREC	<u>12</u> B	
PARCEL ID # 31-5S-16-03744-312			
A SEPARATE CHECK IS REQUIRED  MAKE CHECKS PAYABLE TO BCC  PUBLIC WORKS DEPARTM		Paid <u>50.0</u>	
TOBLIC WORKS DELAKTIN	ENT COE ONLY		
HEREBY CERTIFY THAT I HAVE EXAMINED THIS APPLICATED ULVERT WAIVER IS:	TION AND DETERMI	NED THAT THE	
APPROVED	_ NOT APPROV	/ED - NEEDS A	CULVERT PERM
COMMENTS: No Colvert New Hory Rompany at Dri	iched No	Dita	hes
SIGNED: Ken fweet 1	DATE: 04	04-06	
ANY QUESTIONS PLEASE CONTACT THE PUBLIC WORKS DE	CPARTMENT AT 386-7	52-5955.	
35 NE Hernando Ave. Suito D 21	RECEIV	ED S	E B CICILLO

MAR 3 0 2006

135 NE Hernando Ave., Suite B-21 Lake City, FL 32055

Phone: 386-758-1008 Fax: 386-758-2160

	Notice of Treatme	nt /1927				
Address: BAUA	Applicator: Florida Pest Control & Chemical Co. (www.flapest.com)  Address: BAYA FIVE  City ( Phone 752-1703					
Site Location: Subdivision  Lot # Block# Permit # 24311  Address						
Product used	Active Ingredient	% Concentration				
Premise Premise	Imidacloprid	0.1%				
☐ <u>Termidor</u>	Fipronil	0.12%				
☐ Bora-Care □	Disodium Octaborate Tetra	hydrate 23.0%				
Type treatment:	☐ Soil ☐ Wo	od feet Gallons Applied				
DWL	2.14Z 16					
As per Florida Building Code 104.2.6 – If soil chemical barrier method for termite prevention is used, final exterior treatment shall be completed prior to final building approval.						
If this notice is for the f	inal exterior treatment, init					
5-17-06		F. 284 D.C.				
Date	Time Pri	nt Technician's Name				
Remarks:						
Applicator - White	Permit File - Canary	Permit Holder - Pink				

#### CORPORATE HEADQUARTERS:

Since 1949

P.O. BOX 5369 116 N.W. 16TH AVENUE GAINESVILLE, FL 32602-5369

(352) 376-2661 FAX (352) 376-2791

SCIENTIFIC PEST CONTROL DIRECTED BY GRADUATE ENTOMOLOGISTS

Complete Pest Control Service Member Florida & National Pest Control Associations

F-11927

FOUNDED 1949

Reply to: 536 SE Baya Dr Lake City, FL 32025

Phone (386) 752-1703 Fax (386) 752-0171

ERMITE TREATME	ENT CERTIFICATION
The second section with the second section of the second section of the second section with the second section of the section of	Permit Number:
Owner:	04044
Mark luen	24311 Block:
Lot:	Dives
	Street Address:
Subdivision:	
	1149 SW Faulkner Dr
City:	County:
Fort M/hito	Columbia
Fort White General Contractor:	Area Treated:
	exterior perimeter
McClellan	Time:
Date:	
12/11/06	Applicator ID Number:
Name of applicator	Applicator is realised.
James Parker	JE 55238
Product Used: Active Ingredient: % Concentration	Number of gallons used:
	40
Premise: Imidacloprid 0.1%	
Method of termite prevention treatment: Soil Treatm	nent  prevention of subterranean termites. Treatment is in accordance w

The building has received a complete treatment for the prevention of subterranean termites. Treatment is in accordance with rules and laws established by the Florida Department of Agriculture and Consumer Services.

This form is proof of complete treatment for Certificate of Occupancy or Closing.

#### THIS IS PROOF OF WARRANTY

Warranty and Treatment Certifications Have Been Issued.

Warranty and Treat	nt Certifications Have Been Issued.
Authorized Signature:	Date:
Denise 4	pod 1-18-07

#### **BRANCHES**:



# OCCUPANCY

# COLUMBIA COUNTY, FLORIDA

epartment of Building and Zoning Inspection

accordance with the Columbia County Building Code. 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

Parcel Number 31-5S-16-03744-312 Building permit No. 000024311

Fire: 0.00

Waste: 0.00

Total:

WO WHAT I WANTED

Location: 1149 SW FAULKNER DR

Owner of Building MARC & TAMMY IUEN

Permit Holder MIKE MCCLELLAN

Use Classification SFD, UTILITY

Date: 01/17/2007

**Building Inspector** 

POST IN A CONSPICUOUS PLACE (Business Places Only)