

This Permit Expires One Year From the Date of Issue

APPLICANTDWAINE CARRIERPHONE352 694-2580

ADDRESSP.O. BOX 830157OCALAFL34483

OWNERGEORGE & SHARON TUNINGPHONE961-9016

ADDRESS164SE CUSTER WAYLAKE CITYFL32025

CONTRACTORHJ MCDONALD, JRPHONE352 694-2580

LOCATION OF PROPERTY441 S, TL ON CR 252, TL ON MILL CREEK RD, BECOMES PIUTE
WAY, TL ON WOODHAVEN ST, TR ON CUSTER WAY, 4TH ON LEFT

TYPE DEVELOPMENTRE-ROOF OF SFDESTIMATED COST OF CONSTRUCTION19742.00

HEATED FLOOR AREATOTAL AREAHEIGHTSTORIES

FOUNDATIONWALLSROOF PITCHFLOOR

LAND USE & ZONINGMAX. HEIGHT

Minimum Set Back Requirments:STREET-FRONTREARSIDE

NO. EX.D.U.FLOOD ZONENADeVELOPMENT PERMIT NO.

PARCEL ID09-4S-17-08300-083SUBDIVISIONWOODHAVEN

LOT11/20BLOCKPHASEUNITTOTAL ACRES

CRC001864

Culvert Permit No.Culvert WaiverContractor's License NumberApplicant/Owner/Contractor

X06-0423BKJHN

Driveway ConnectionSeptic Tank NumberLU & Zoning checked byApproved for IssuanceNew Resident

COMMENTS: NOC ON FILE

Check # or Cash6048

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary PowerFoundationMonolithic

date/app. bydate/app. bydate/app. by

Under slab rough-in plumbingSlabSheathing/Nailing

date/app. bydate/app. bydate/app. by

FramingRough-in plumbing above slab and below wood floor

date/app. bydate/app. by

Electrical rough-inHeat & Air DuctPeri. beam (Lintel)

date/app. bydate/app. bydate/app. by

Permanent powerC.O. FinalCulvert

date/app. bydate/app. bydate/app. by

M/H tie downs, blocking, electricity and plumbingPool

date/app. bydate/app. by

ReconnectionPump poleUtility Pole

date/app. bydate/app. bydate/app. by

M/H PoleTravel TrailerRe-roof

date/app. bydate/app. bydate/app. by

BUILDING PERMIT FEE \$100.00CERTIFICATION FEE \$0.00SURCHARGE FEE \$0.00

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

FLOOD DEVELOPMENT FEE \$FLOOD ZONE FEE \$CULVERT FEE \$TOTAL FEE100.00

INSPECTORS OFFICECLERKS OFFICE

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

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

This Permit Must Be Prominently Posted on Premises During Construction

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

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

Columbia County Building Permit Application

Revised 9-23-04

For Office Use Only Application # 0612-05 Date Received 12/4 By G Permit # 25271
Application Approved by - Zoning Official _____ Date _____ Plans Examiner _____ Date _____
Flood Zone _____ Development Permit _____ Zoning _____ Land Use Plan Map Category _____
Comments _____

Applicants Name Dwaine Carrier Phone 352-694-2580
Address PO Box 830157 Ocala FL 34483
Owners Name George + Sharon Tuning Phone 386-961-9016
911 Address 164 SE Aster way, Lake City FL 32025
Contractors Name H. J. McDonald JR Phone 352-694-2580
Address PO Box 830157 Ocala FL 34483
Fee Simple Owner Name & Address N/A
Bonding Co. Name & Address N/A
Architect/Engineer Name & Address N/A
Mortgage Lenders Name & Address N/A

Circle the correct power company - FL Power & Light - Clay Elec. - Suwannee Valley Elec. - Progressive EnergyProperty ID Number 09-4S-17-08300-0834X Estimated Cost of Construction 19,742.00Subdivision Name Woodhaven S/D Lot 150 Block _____ Unit 4 Phase _____Driving Directions US 44N / FL 25N, Turn Right onto CL 282, Turn Left onto Mill Creek Rd, Mill Creek Rd becomes SE Pulte way, Turn Left onto SE Woodhaven St, Turn Right onto SE Aster way.Type of Construction Metal Roofover Number of Existing Dwellings on Property N/ATotal Acreage _____ Lot Size _____ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Drive

Actual Distance of Structure from Property Lines - Front _____ Side _____ Side _____ Rear _____

Total Building Height _____ Number of Stories 1 Heated Floor Area 2020 Roof Pitch 4-12

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.

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 COMMENCEMENT 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.

H. J. McDonald Jr
Owner Builder or Agent (Including Contractor)

STATE OF FLORIDA
COUNTY OF COLUMBIA

Sworn to (or affirmed) and subscribed before me
this 15 day of November 2006.
Personally known L or Produced Identification _____

H. J. McDonald Jr
Contractor Signature
Contractors License Number CR001864
Competency Card Number 4475
NOTARY STAMP/SEAL

Notary Signature





WINDOW SUPPLY, INC.

P. O. Box 830157 ~ Ocala, Florida 34483
352-694-2580 ~ fax 352-694-6939

Date: 11/14/2006

License Holder: H.J. McDonald Jr.

State License Number: CR-C001864

Marion County License Number: SCC454

I, H.J. McDonald Jr., do hereby name the following person who works for Window Supply, Inc. d/b/a National HomeCraft to be my lawful agent in fact to do all things necessary to obtain permits in the Columbia County Florida.

Name

Signature

Dwayne CARRIER

Dwayne Carrier

Authorization is good for one (1) year from the above date. Any other authorization that was given is here by null and void.

H.J. McDonald Jr.

H.J. McDonald Jr.

Subscribed before me this 11/14/2006, by H.J. McDonald Jr. who is personally known to me and did not take an oath.

Mary June Halloran
Notary Public
State Of Florida At Large



ACORD™ CERTIFICATE OF LIABILITY INSURANCEDATE (MM/DD/YYYY)
11/08/06

PRODUCER HRH of Savannah, Inc. P.O. Box 9966 7 East Congress St., Ste 1002 Savannah, GA 31412	THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.	
INSURED Window Supply, Inc. PO Box 830157 Ocala, FL 34483	INSURERS AFFORDING COVERAGE INSURER A: Landmark American Ins. Co INSURER B: Bridgefield Casualty through Summitt INSURER C: Safeco Insurance Company INSURER D: INSURER E:	NAIC # 10335 1635

COVERAGES

THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. AGGREGATE LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR ADD'L LTR	INSR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS MADE ☒ OCCUR ☒ B/PPD Ded:5,000 GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC	LHA104611	11/01/06	11/01/07	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$1,000,000 \$50,000 \$ \$1,000,000 \$2,000,000 \$2,000,000
C		AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ ALL OWNED AUTOS ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ☒ NON-OWNED AUTOS	01CH30818210	11/01/06	11/01/07	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	\$1,000,000 \$ \$ \$
		GARAGE LIABILITY ☐ ANY AUTO				AUTO ONLY - EA ACCIDENT OTHER THAN AUTO ONLY: EA ACC AGG	\$ \$ \$
		EXCESS/UMBRELLA LIABILITY ☐ OCCUR ☐ CLAIMS MADE ☐ DEDUCTIBLE RETENTION \$				EACH OCCURRENCE AGGREGATE	\$ \$ \$ \$
B		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? If yes, describe under SPECIAL PROVISIONS below OTHER	83034542	06/01/06	06/01/07	WC STATU-TORY LIMITS E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	\$ \$100,000 \$100,000 \$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / EXCLUSIONS ADDED BY ENDORSEMENT / SPECIAL PROVISIONS

Qualifier Name: H J McDonald, Jr.
 State License Number CRC001864

CERTIFICATE HOLDER**CANCELLATION**

Columbia County Bldg Dept
 35 N Hernando Street
 Lake City, FL 32055

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING INSURER WILL ENDEAVOR TO MAIL 10 DAYS WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO DO SO SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

B. J. Patsy Daves



STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

CONSTRUCTION INDUSTRY LICENSING BOARD
1940 NORTH MONROE STREET
TALLAHASSEE FL 32399-0783

(850) 487-1395

MC DONALD, H J JR
WINDOW SUPPLY INC
POST OFFICE BOX 830157
OCALA FL 34483-0157



STATE OF FLORIDA AC# 2637958
DEPARTMENT OF BUSINESS AND
PROFESSIONAL REGULATION

CRC001864 06/29/06 050813342

CERTIFIED RESIDENTIAL CONTRACTOR
MC DONALD, H J JR
WINDOW SUPPLY INC

IS CERTIFIED under the provisions of Ch. 489 FS.
Expiration date: AUG 31, 2008 L06062900942

DETACH HERE

AC# 2637958

STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L06062900942

DATE	BATCH NUMBER	LICENSE NBR
06/29/2006	050813342	CRC001864

The RESIDENTIAL CONTRACTOR
Named below IS CERTIFIED
Under the provisions of Chapter 489 FS.
Expiration date: AUG 31, 2008

MC DONALD, H J JR
WINDOW SUPPLY INC
4441 SE 53RD AVENUE
OCALA FL 34480

SIMONE MARSTILLER

JER BUSH

09-4S-17-08300-083

LOTS 11 & 20 WOODHAVEN S/D
UNIT 4. ORB 465-139, 793-1795

TUNING GEORGE & SHARON D
164 SE CUSTER WAY
LAKE CITY, FL 32025

09-4S-17-08300-083

PRIN
APPR

BUSE	00C100	SINGLE	FAM	AE? Y	2020	HTD AREA	107.864	INDEX	9417.01
MOD	1	SFR	BATH	2.00	2229	EFF AREA	48.539	E-RATE	100.000
EXW	19	COMMON BRK	FIXT		108193	RCN			1980
%	0000000000	BDRM	3		75.00	%GOOD	81,144	B BLDG VAL	1980
RSTR	03	GABLE/HIP	RMS						
RCVR	03	COMP SHNGL	UNTS						
%	N/A	C-W%							
INTW	05	DRYWALL	HGHT						
%	N/A	PMTR							
FLOR	14	CARPET	STYS	1.0					
20%	06	VINYL ASB	ECON						
HTTP	04	AIR DUCTED	FUNC						
A/C	03	CENTRAL	SPCD						
QUAL	03	AVERAGE	DEPR 52						
FNDN	N/A	N/A							
SIZE	03	RECTANGLE	N/A						
CEIL	N/A	N/A							
ARCH	N/A	N/A							
FRME	01	NONE	N/A						
KTCH	N/A	N/A							
WNDO	N/A	N/A							
CLAS	N/A	N/A							
OCC	N/A	N/A							
COND	N/A	%							
SUB	A-AREA	%	E-AREA	SUB VALUE					
BAS93	2020	100	2020	73535					
FOP93	140	30	42	1529					
FST93	112	55	62	2257					
FCP93	420	25	105	3823					

TOTAL 2692 2229 81144

-----EXTRA FEATURES-----										FIELD CK:			
AE	BN	CODE	DESC	LEN	WID	HGHT	QTY	QL	YR	ADJ	UNITS	UT	PRI
Y	1	0190	FPLC PF				1		0000	1.00	1.000	UT	1500.
Y		0166	CONC, PAVMT				1		0000	1.00	1.000	UT	1000.
Y		0280	POOL R/CON	32	16		1		1985	1.00	512.000	SF	34.
Y		0294	SHED WOOD/VI				1		0000	1.00	1.000	UT	600.
Y		0120	CLFENCE 4				1		2004	1.00	1.000	UT	800.

LAND	DESC	ZONE	ROAD	{UD1	{UD3	FRONT	DEPTH	FIELD CK:				
AE	CODE	TOPO	UTIL	{UD2	{UD4	BACK	DT	ADJUSTMENTS			UNI	
Y	000100	SFR	00					1.00	1.00	.90	1.00	2.00

SALE - LOTS 11 & 20 WOODHAVEN UNIT IV
2006

Contract and Agreement

WINDOW SUPPLY, INC.

P.O. Box 830157
Ocala, FL 34483-0157

CONTRACT AMOUNT 19742
DOWN PAYMENT 1900
AMOUNT OF CONSOLIDATION 17842
TOTAL BALANCE 17842 DATE 11-11-06

Phone: (352) 694-2580 • (352) 694-6939 • Toll Free (800) 897-2637

I/We the owner(s) of the premises mentioned below, hereby engage and hire you as contractor, to furnish and install all necessary materials and labor, to install, construct and place the improvements according to the following specifications, terms and conditions, on and in the premises below described which we warrant and represent that we have good record title as to owners in our own name.

OWNER'S NAME(S) George + Sharon Tuning PHONE 386-961-9016

ADDRESS 164 SE Custer Way Lake City STATE FL ZIP 32025

DESCRIPTION OF WORK TO BE DONE AND MATERIALS TO BE USED: CCCA-BROWN 29 Gauge

\$1900 due in week for down payment

complete entire roof in CCCA-BROWN

Job includes full RAINFALL BARRIER DRIP

edge, full vent ridge, all PARTS including

UP TO five full sheets, LASEAL, ACCESSORIES

including all WARRANTIES, PERMITS, TAXES

and debris removal

CUSTOMERS ARE SECURING our financing

and will send deposit in approximately

one week

Contractor has public liability insurance. All sub-contractors have certificate of insurance or certificate of exemption at the time the services are rendered.

The undersigned contractor agrees to sell and the undersigned buyer(s) (jointly and severally, if more than one) agrees to purchase the above described goods and services which are to be furnished or used in the modernization, rehabilitation, repair, alteration or improvement of real property located at buyer's address given above. WINDOW SUPPLY, INC. reserves the right to assign this contract to another Licensed Contractor at its discretion.

APPROXIMATE START DATE ASAP APPROXIMATE COMPLETION DATE _____

LOAN PROPOSAL

Buyer(s) may request seller to arrange a loan in the amount necessary to cover the price under this agreement. If seller is unable to arrange such a loan, this contract is automatically terminated.

Because of the large number of sources where seller may arrange such a loan and because each of them has various methods of computing the loan cost, it is impossible to furnish a full disclosure statement as required by law, until such time as seller is able to obtain an "Agreement to Loan" from one or another financial source. If the buyer(s) should request the seller to arrange a loan, a full disclosure statement will be furnished immediately upon obtaining an "Agreement to Loan." An "Agreement to Loan" from another financial source is customarily secured by mortgage of real estate.

Based on the terms of this contract the repayment term of the loan shall be approximately _____ months and the monthly payments shall be approximately _____ per month, (excluding insurance, points, appraisals, property reports, etc., which may or may not be part of your loan, but including finance charges/interest based on the terms of this contract).

NOTICE TO OWNER

- Do not sign this home improvement contract in blank.
- You are entitled to a copy of the contract at the time you sign. Keep it to protect your legal rights.
- This home improvement contract may contain a mortgage or otherwise create a lien on your property that could be foreclosed on if you fail to pay. Be sure you understand all provisions of the contract before you sign.
- This contract is subject to review and approval by management of Window Supply Inc. and is not valid until approved.

CONSTRUCTION INDUSTRIES RECOVERY FUND

Payment may be available from the Construction Industries Recovery Fund if you lose money on a project performed under contract, where the loss results from specified violations of Florida Law by a State-Licensed Contractor. For information about the recovery fund and filing claim, contact: Florida Construction Industry Licensing Board c/o 1940 North Monroe St. Tallahassee, FL 32399-0783 (904) 727-6530.

ACCEPTANCE - The prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

NOTICE OF RIGHT TO CANCEL CONTRACT

You the buyer, may cancel this transaction at any time prior to midnight of the third business day after the date of this transaction. See the attached notice of cancellation form for an explanation of this right.

Agent Patricia Kelly Date 11-11-06 Buyer George Tuning Date 11/11/06
Co-Buyer Sharon Tuning Date 11/11/06

BUYER ACKNOWLEDGES RECEIPT OF THIS CONTRACT IMMEDIATELY UPON THE EXECUTION HEREOF.

FLORIDA CONTRACTORS LICENSE # 00000000



The Florida Department of Community Affairs Building Code Information System

Product Type Detail

PRODUCT APPROVAL

Overview Product Search Organization Search Product Application

User: Public User - Not Associated with Organization -

[Need Help?](#)

Application #: FL4586
Date Submitted: 06/03/2005
Code Version: 2004

Product Manufacturer: UNION CORRUGATING COMPANY
Address/Phone/email: 701 S. KING ST.
FAYETTEVILLE, NC 28301
(910) 483-0479

Technical Representative: Dave Hart
Technical Representative Address/Phone/email: 701 S King St
Fayetteville, NC 28303
(910) 483-0479
dhart@unioncorrugating.com

Category: Roofing
Subcategory: Non-structural Metal Roofing

Evaluation Method: Certification Mark or Listing

Referenced Standards from the Florida Building Code:
Section Standard Year
1504.3.2 UL 580 1994

Certification Agency: Underwriters Laboratories Inc.

Quality Assurance Entity:

Validation Entity:

Authorized Signature:

Glenn Hart
dhart@unioncorrugating.com

Evaluation/Test Reports Uploaded:
Installation Documents Uploaded:

PTID 4586 1 SVPanelProfile.pdf
PTID 4586 1 Adj.ckPanelProfile.pdf

http://www.floridabuilding.org/pr/pr_detail.asp?PT=4586&RV=0&fm=ROSrch

11/10/2005

up to Stuart

PTD 4586 I MasterRibPanelProfile.pdf
PTD 4586 I Trim Installation.pdf

Product Approval Method:

Method 1 Option A

Application Status:

Approved

Date Validated:

06/03/2005

Date Approved:

06/29/2005

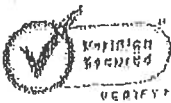
Date Certified to the 2004 Code:

Page 1/1

Page: 

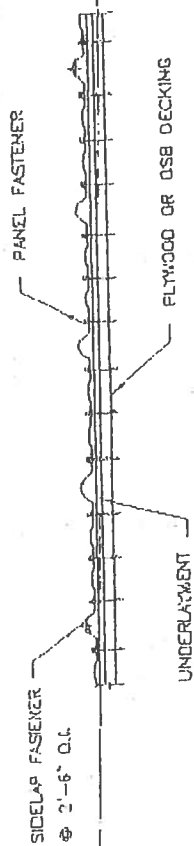
App/Seq #	Product Model # or Name	Model Description	Limits of Use
4586.1	5V	Min 29 ga. Through Fastened Metal Roof	UL Construction 579. Not for use in HVHZ. Design Pressure = 52.5 psf. Increased Design pressures at perimeter and corner areas, in compliance with FBC Chapter 16, may be met through rational analysis.
4586.2	Advantage Lok	Min 29 ga. Standing Seam Metal Roof	UL Construction 529. Not for use in HVHZ. Design Pressure = 52.5 psf. Increased Design pressures at perimeter and corner areas, in compliance with FBC Chapter 16, may be met through rational analysis.
4586.3	MasterRib	Min 29 ga. Through Fastened Metal Roof	UL Construction 584. Not for use in HVHZ. Design Pressure = 52.5 psf. Increased Design pressures at perimeter and corner areas, in compliance with FBC Chapter 16, may be met through rational analysis.



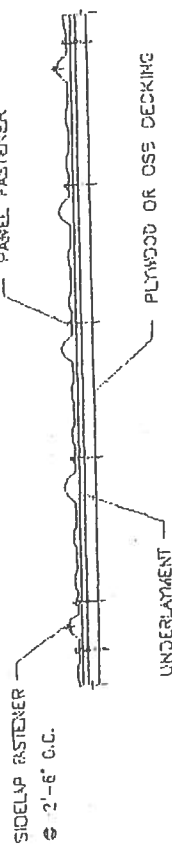


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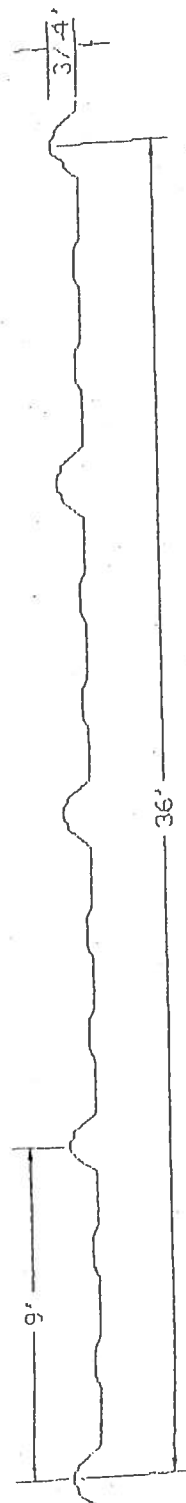




FASTENER PATTERN @ EAVE, RIDGE & VALLEY



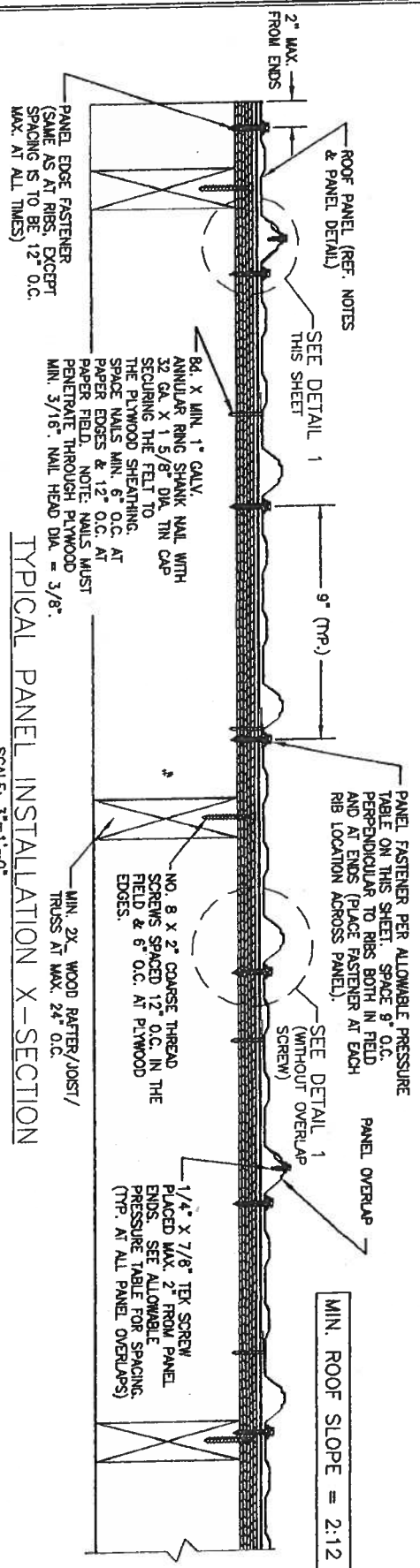
FASTENER PATTERN @ INTERMEDIATE LOCATIONS



MasterRib Panel Profile

25 or 29 Gauge, Minw. Yield = 80 KSI
 ASTM A792 for Galvalume Steel
 ASTM A755 for Painted Steel
 ASTM A552 for Galvanized Steel

UNION CORRUGATING COMPANY		201 BROADWAY, NEW YORK, N.Y. 10038		Tel: (212) 486-1000	
Fax: (212) 486-1001		E-Mail: info@unioncorr.com		Web: www.unioncorr.com	
Date: 7-22-2001		Drawn: J. J. J.		Check: J. J. J.	
Title: MasterRib Panel		Scale: 1/8" = 1'-0"		Sheet No. 1 of 1	



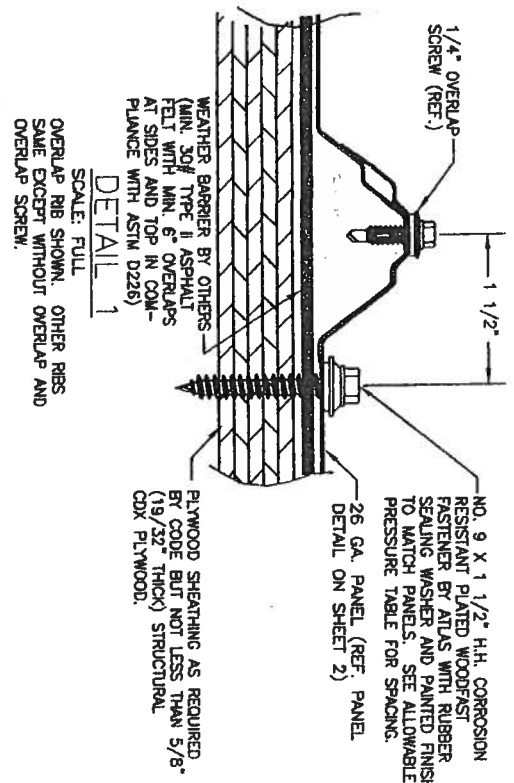
TYPICAL PANEL INSTALLATION X-SECTION

ALLOWABLE UPLIFT PRESSURE

ZONE	OVERLAP FASTENERS SPACING ALONG RIB	PANEL FASTENERS SPACING ALONG RIB	PRESSURE (PSF)
FIELD	30"	30"	61.8
PERIMETER & CORNER	24"	24"	114.3

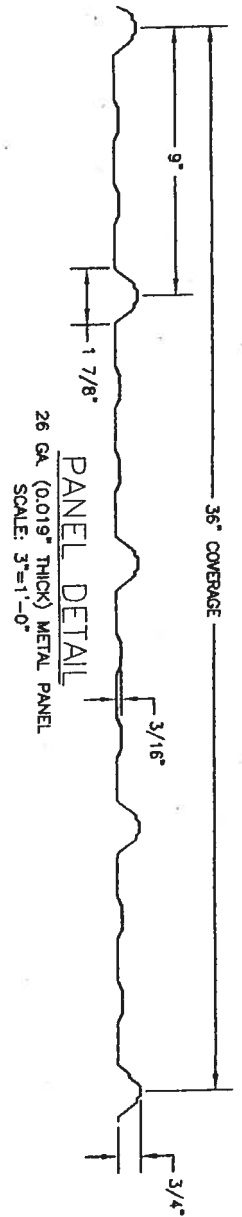
- GENERAL NOTES:
- ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
 - ALL ROOF PANELS ARE FABRICATED FROM A 41" WIDE COIL & SHALL BE 28 GA. (1" = 0.0157") WITH 1/4" RIBS. GROUND OR GALVALUME (ASTM A-650 OR A-652) STEEL FINISHED WITH CONFORMING 850 SLOPE POLYESTER FINISH. EFFECTIVE COVERING WIDTH OF 36" SHALL BE MAINTAINED.
 - THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THESE DRAWINGS.
 - REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS FOR THIS PANEL SYSTEM.
 - ALL FASTENERS MUST BE APPROVED BY THE FLORIDA BUILDING CODE. IF A DIFFERENCE EXISTS BETWEEN THE MINIMUM REQUIREMENTS OF THESE DRAWINGS & THE CODE, THE CODE SHALL CONTROL.
 - REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
 - THIS ROOFING PANEL SYSTEM HAS BEEN TESTED PER DUNE COUNTY PROTOCOLS FOR DESIGN LOADS OF 20 PSF. DESIGN LOADS GREATER THAN 20 PSF SHALL BE PROVIDED BY THE ROOF PANEL MANUFACTURER'S LABEL. THESE LOADS SHALL BE PLACED AT THE END OF EACH PANEL AND SHALL MEET DUNE COUNTY PROTOCOLS.
 - MINIMUM ROOF SLOPE SHALL NOT BE LESS THAN 2:12.

SEE SHEET 2 FOR VALLEY DETAILS

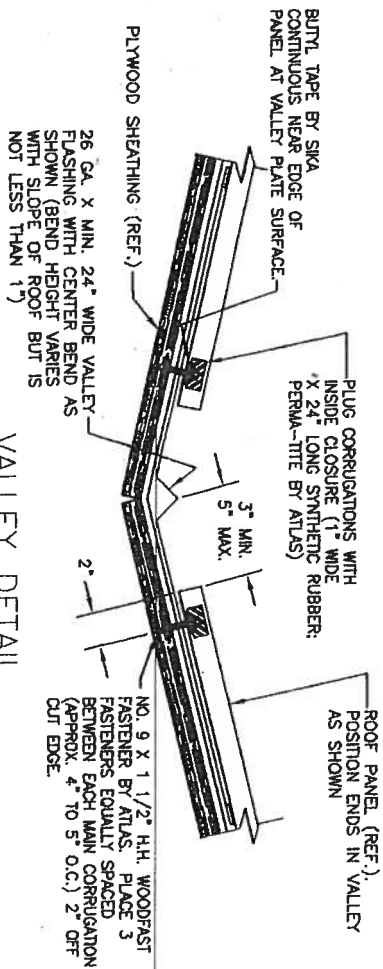


SCALE: FULL
OVERLAP RIB SHOWN. OTHER RIBS SAME EXCEPT WITHOUT OVERLAP AND OVERLAP SCREW.

CERTIFICATION BALA SOCKALINGAM, P.E. P.E. NO. 62240		DRAWING TITLE MASTER RIB ARCHITECTURAL METAL ROOF PANEL		MANUFACTURER UNION CORRUGATING CO. 701 S. KING STREET FAYETTEVILLE, NC 28301 910-483-2195									
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 6711 S. YALE AVE, SUITE 200 TULSA, OK 74133 PHONE: 918-492-5992 FAX: 918-492-2487		REVISION <table border="1"> <tr> <th>NO.</th> <th>REVISION DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				NO.	REVISION DESCRIPTION	BY	DATE				
NO.	REVISION DESCRIPTION	BY	DATE										



PANEL DETAIL
26 GA. (0.019\"/>



VALLEY DETAIL
SCALE: 3\"/>

SEE SHEET 1 FOR PANEL DETAILS

CERTIFICATION BALA SOCKALINGAM, P.E. P.E. NO. 62240		DRAWING TITLE MASTER RIB ARCHITECTURAL METAL ROOF PANEL		NO. REVISION DESCRIPTION BY DATE																									
CONSULTANTS BALA SOCKALINGAM, PH.D., P.E. 6711 S. YALE AVE., SUITE 200 TULSA, OK 74138 PHONE: 918-492-6092 FAX: 918-492-2497		MANUFACTURER UNION CORRUGATING CO. 701 S. KING STREET FAYETTEVILLE, NC 28301 910-483-2195		<table border="1"> <tr> <th>NO.</th> <th>REVISION DESCRIPTION</th> <th>BY</th> <th>DATE</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>		NO.	REVISION DESCRIPTION	BY	DATE																				
NO.	REVISION DESCRIPTION	BY	DATE																										
DRAWING NO. 1428 SHEET NO. 2 OF 2		APPROVED FOR: DATE: BY:																											

Installation Instructions for MasterRib®

Storage

If metal is not to be used immediately, store inside in a well ventilated, dry location. Condensation or other moisture can form between the sheets during storage causing water stains or white rust which detract from the appearance of the product and may affect the product's useful life. Trapped moisture between sheets of painted metal can cause white rust to form underneath the paint. This can cause the paint to flake off the panel immediately or several years later. To prevent white rust and staining, break the shipping bands on the material. Store the material on end or on an incline of at least 8" with a supporting board underneath to prevent sagging. Fan the sheets slightly at the bottom to allow for air circulation. Keep the sheets off of the ground with an insulator such as wood. Any outdoor storage is at the customer's own risk. If outdoor storage cannot be avoided, protect the metal using a canvas cover or waterproof paper. Never cover the metal with plastic as this will cause condensation to form.

Some Safety Precautions

Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When cutting or dulling steel panels, always wear safety glasses and sweep off any metal shavings immediately to prevent eye injury from flying metal fragments. If you must walk on a metal roof, take great care. Metal panels can become slippery, so always wear shoes with non-slip soles. Avoid working on metal roofs during wet conditions when the panels can become extremely slippery. Walking or standing on a metal roof which does not have a plywood or other deck beneath it is not recommended. However, if you must do so, always walk on the purlins, never between. Do not for any reason walk on a roof made of material less thick than 29 gauge.

General Installation Information

Insure that the structure is square and true before beginning panel installation. If the structure is not square, the panels will not properly seal at the side laps. Green or damp lumber is not recommended. Moisture released from the damp lumber may damage the metal panels. Nails installed in green or damp lumber may back out.

The prevention of steel debris staining is the responsibility of the installer. The recommended tools for on site cutting are profile shears, hand shears, or electric nibblers. Friction saws and abrasive discs should not be used to cut panels. Remove any loose metal shavings left on roof surface immediately to prevent corrosion. After installing roof, remove any debris such as leaves or dirt to prevent moisture from getting trapped on panels.

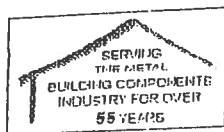
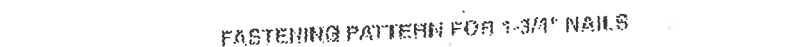
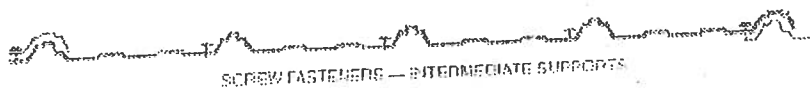
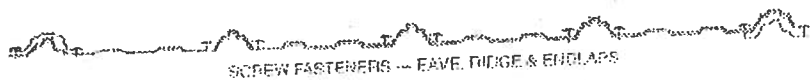
Fastening

If you wish to predrill fastener holes, use a cover sheet to prevent hot shavings from sticking to panels.

Screws - For best results use a 1-1/2" double washered wood screw in the flat of the panel as shown in the illustration below. Fasteners should be applied at every purlin. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form a dimple that can collect water and cause leakage. Do not leave any loose fasteners that have missed the purlin. Use a #14 stitch screw or caulk to fill the hole.

Nails - If the panels are nailed, use 1-3/4" ring-shanked neoprene washered nails. Nail into the crown of the major ribs of the panel as illustrated below. (See Figure #2). **NOTE: If rigid insulation is used directly under the panel, the fastener length needs to be increased to allow a minimum of 1" penetration into the wood.** General installation instructions listed above for screws also apply to nails. Do not apply nails into flat area of panel.

Figure #1 - Fastening Patterns for MasterRib®
RECOMMENDED FASTENING PATTERN FOR 1-1/2" SCREWS



UNION
CORRUGATING COMPANY
Fayetteville, NC

www.unioncorrugating.com

SPENCER STEEL SUPPLY
SPENCER, NC

ANDERSON STEEL SUPPLY
ANDERSON, SC

ORANGE STEEL ROOFING PRODUCTS
ORANGE, VA

TIPON STEEL PRODUCTS
TIPON, GA

UNICO METAL PRODUCTS
OKLA, FL

VICESBURG METAL PRODUCTS
VICESBURG, MS

DAYTON METALS
DAYTON, OH

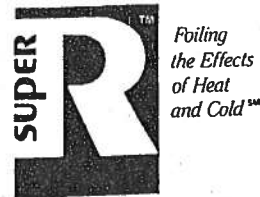
GREAT PLAINS METALS
ST. LOUIS, MO

Figure #2 - (Nails only)
UNDER DRIVEN CORRECT OVER DRIVEN



Figure #3





PRODUCT DATA SHEET

SUPER R™ DIAMOND (Residential)

PRODUCT: Two-Sided reflecting 99% pure aluminum foil with reinforced scrim

WEIGHT: 14.3 lb M/sf

TENSILE STRENGTH: Test Method ASTM D-882
Machine Direction: 14.9 lb/in width
Cross Direction: 5.2 lb/in width

FLAME SPREAD: 0*

SMOKE DEVELOPMENT: 5*

WATER VAPOR PERMEABILITY:
60g/m²/24hr***

THERMAL PROPERTIES: Emissivity 0.03****
(Reflects 97% of Infrared Energy)

SUPER R™ PREMIUM (Commercial)

PRODUCT: Two-sided reflecting 99% pure aluminum foil with poly fabric

WEIGHT: 16.5 lb M/sf

TENSILE STRENGTH: Test Method ASTM D-882
Machine Direction: 13.5 lb/in width
Cross Direction: 15.0 lb/in width

FLAME SPREAD: 5*

SMOKE DEVELOPMENT: 10*

WATER VAPOR PERMEABILITY:
60g/m²/24hr***

THERMAL PROPERTIES: Emissivity 0.03****
(Reflects 97% of Infrared Energy)

SUPER R™ PLUS (Industrial)

PRODUCT: Two-sided reflecting 99% pure aluminum foil with woven polyolefin

WEIGHT: 23.8 lb M/sf

TENSILE STRENGTH: Test Method ASTM D-882
Machine Direction: 64.0 lb/in width
Cross Direction: 30.0 lb/in width

FLAME SPREAD: 10*

SMOKE DEVELOPMENT: 10*

WATER VAPOR PERMEABILITY:
60g/m²/24hr***

THERMAL PROPERTIES: Emissivity 0.03****
(Reflects 97% of Infrared Energy)

UNITED STATES TESTING COMPANY, INC.

- * ASTM Test Method E-84-81A
- ** ASTM Test Method E-84-95
- *** ASTM E-96 Method A
- **** ASTM E-408

INNOVATIVE INSULATION, INC.

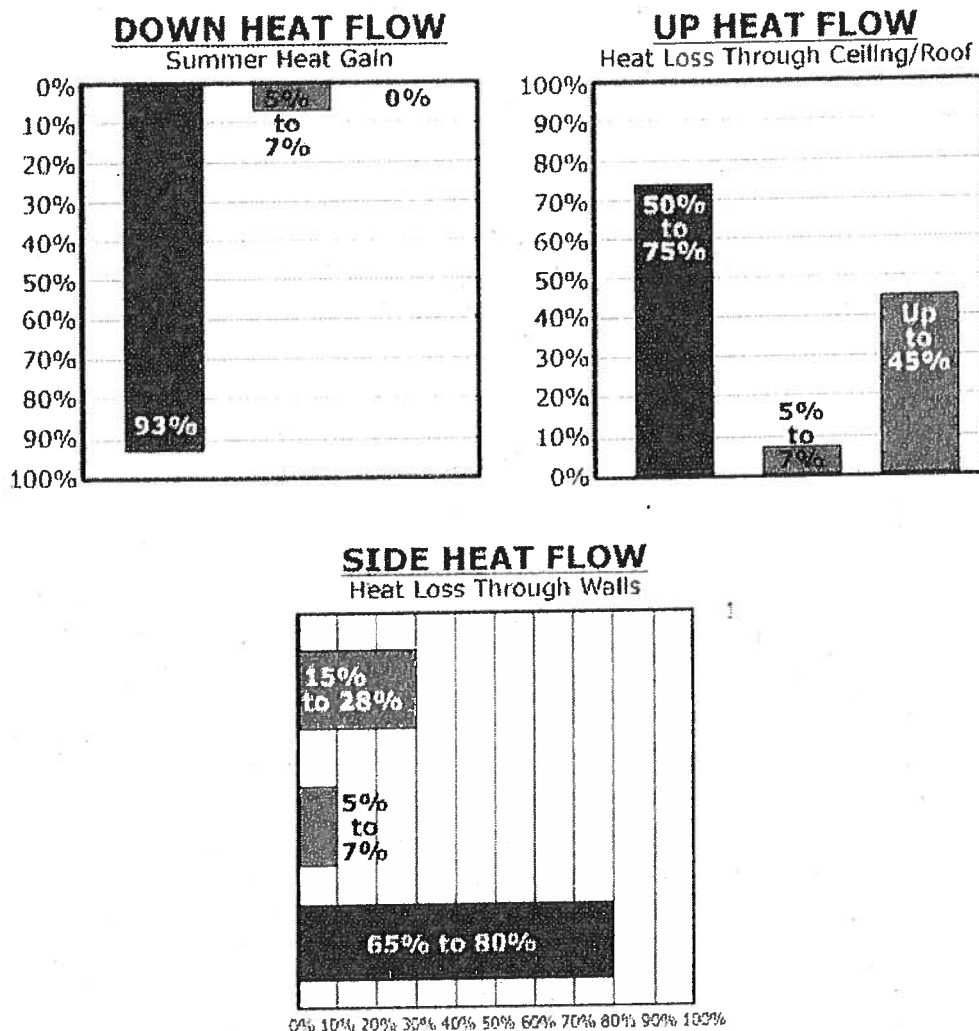
6200 W. Pioneer Parkway, Arlington, TX 76013 · 817-446-6200 · 1-800-825-0123 · Fax 817-446-6222

e-mail address: info@radiantbarrier.com website: www.RadiantBarrier.com

What Is Radiant Barrier Reflective Insulation?

Radiant barrier insulation is a reflective insulation system that offers a permanent way to reduce energy costs. Radiant barrier insulation systems reflect radiant heat energy instead of trying to absorb it. A pure aluminum radiant barrier reflective insulation is unaffected by humidity and will continue to perform at a consistent level no matter how humid it may be. A radiant barrier insulation system is a layer of foil facing an airspace and is installed in the envelope of a building.

Most people are familiar with traditional insulating materials such as fiberglass, cellulose, Styrofoam, and rock wool. These products use their ability to absorb or resist (slow down) convective and conductive heat transfer to insulate (R-value). A third, seldom discussed but dominant form of heat transfer exists: **radiant heat transfer**. What are the differences among the three forms of heat transfer?



Conductive: Direct contact. If you touch a pot on the stove, this is conductive heat transfer.

 **Convective:** Steam, moisture. If you put your hand above a boiling pot, you will feel heat in the form of steam. This is convective heat transfer.

 **Radiant:** Electromagnetic. Step outside on a sunny day and feel the sun's rays on your face. You are feeling radiant heat transfer. All objects above absolute zero (-459.7 degrees F.) emit infrared rays in a straight line in all directions.

A radiant barrier **reflects** radiant heat energy instead of trying to absorb it. What does this mean in your home or business? During the winter, 50-75% of heat loss through the ceiling/roofing system and 65-80% of heat loss through walls is radiant. In the summer, **up to 93% of heat gain is radiant**. If you are depending on R-value (resistance) alone to insulate against heat gain and loss, remember that thin layers of fiberglass are virtually transparent to radiant energy and are affected by changes in humidity (moisture levels). A 1-1/2% change in the moisture content of fiberglass insulation will result in a **36% decrease** in performance (referenced from HVAC Manual 10.6; McGraw-Hill). A pure aluminum radiant barrier is unaffected by humidity and will continue to perform at a consistent level no matter how humid it may be.

Testing and Approvals

- Building Officials and Code Administrators
- International Conference of Building Officials
- Southern Building Code Congress International
- Metropolitan Dade County (FL) Building Code Compliance Dept.
- United States Testing Company
- Tennessee Valley Authority
- Tennessee Technological University
- State of California
- Oak Ridge National Laboratory
- Texas A & M University

Rec. 10.50
Lfe. 602.00

THIS INSTRUMENT WAS PREPARED BY:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

94-10064

RETURN TO:

TERRY McDAVID
POST OFFICE BOX 1328
LAKE CITY, FL 32056-1328

Grantee #1 S.S. No. [REDACTED]

Grantee #2 S.S. No. [REDACTED]

Property Appraiser's
Parcel Identification No.
09-49-[REDACTED] and
[REDACTED]

FILED AND RECORDED IN PUBLIC
RECORDS OF COLUMBIA COUNTY, FL

1994 JUL 28 PM 3:24

RECORDED
P. D. [REDACTED]
CLERK OF COURTS
COLUMBIA COUNTY, FLORIDA
BY [REDACTED]

WARRANTY DEED

THIS INDENTURE, made this 28th day of July 1994, BETWEEN MERLYN GLENN BASS and his wife, JANE ANNETTE PETERSON, whose post office address is N. 288 Woodstock Lane, Appleton, Wisconsin 54915 of the County of Outagamie, State of Wisconsin, grantor*, and GEORGE TUNING and his wife, SHARON D. TUNING, whose post office address is Post Office Box 7111, Lake City, Florida 32056-7111 of the County of Columbia, State of Florida, grantee*.

WITNESSETH: that said grantor, for and in consideration of the sum of Ten Dollars (\$10.00), and other good and valuable considerations to said grantor in hand paid by said grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said grantee, and grantee's heirs and assigns forever, the following described land, situate, lying and being in Columbia County, Florida, to-wit:

Lots 11 and 20, WOODHAVEN UNIT IV, a subdivision according to the plat thereof recorded in Plat Book 4, Page 108 of the public records of Columbia County, Florida.

SUBJECT TO: Restrictions, easements and outstanding mineral rights of record, if any, and taxes for the current year.

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

*"Grantor" and "grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, grantor has hereunto set grantor's hand and seal the day and year first above written.

EX 0793 PG1795

OFFICIAL RECORDS

ADDITIONAL STAMP
INTANGIBLE TAX
P. DWITT CASON, CLERK OF
COURTS, COLUMBIA COUNTY
[REDACTED]

Signed, sealed and delivered
in our presence:

BK 0793 PE1796

Myrtle Ann McElroy
(First Witness)
Myrtle Ann McElroy
Printed Name

Merlyn Glenn Bass (SEAL)
Merlyn Glenn Bass

DeEtte F. Brown
(Second Witness)
DeEtte F. Brown
Printed Name

Jane Annette Peterson (SEAL)
Jane Annette Peterson

STATE OF FLORIDA
COUNTY OF COLUMBIA

The foregoing instrument was acknowledged before me this 28th day of July 1994, by MERLYN GLENN BASS and his wife, JANE ANNETTE PETERSON, who are personally known to me and who did not take an oath.

Myrtle Ann McElroy
Notary Public
My Commission Expires: 2-12-95

MYRTLE ANN McELROY
Notary Public, State of Florida
My Comm. expires Feb. 12, 1995
Comm. No. CC 074471

COLUMBIA
COUNTY

Date 12-04-06