

DATE 06/23/2006

Columbia County Building Permit

This Permit Expires One Year From the Date of Issue

PERMIT  
000024664

APPLICANT DWAIN E CARRIER PHONE 352-369-9469  
ADDRESS 470 NE 812 COURT Ocala FL 34479  
OWNER GLENN W. DOBBS PHONE 386-454-1367  
ADDRESS 791 SW RUM SLAND RD FORT WHITE FL 32038  
CONTRACTOR H.I.MCDONALD PHONE 352-694-2580  
LOCATION OF PROPERTY 41 SOUTH, R ON CR 778, L U 27, R 138, L RUM ISLAND TERR,  
JUST PAST DANA GLEN ON THE LEFT  
TYPE DEVELOPMENT RE-ROOF SFD ESTIMATED COST OF CONSTRUCTION 12558.00  
HEATED FLOOR AREA TOTAL AREA HEIGHT STORIES 1  
FOUNDATION WALLS ROOF PITCH 4/12 FLOOR  
LAND USE & ZONING MAX. HEIGHT 35  
Minimum Set Back Requirments: STREET-FRONT REAR SIDE  
NO. EX.D.U. 1 FLOOD ZONE NA DEVELOPMENT PERMIT NO.  
PARCEL ID 25-7S-16-04321-037 SUBDIVISION RUM ISLAND EST  
LOT 56 BLOCK PHASE UNIT 0 TOTAL ACRES

CRC001864 Dwaine Carrier  
Culvert Permit No. Culvert Waiver Contractor's License Number Applicant/Owner/Contractor  
EXISTING X06-0232 LH JH N  
Driveway Connection Septic Tank Number LU & Zoning checked by Approved for Issuance New Resident  
COMMENTS: RE-ROOF EXISTING SFD, NOC ON FILE  
Check # or Cash 4312

FOR BUILDING & ZONING DEPARTMENT ONLY

(footer/Slab)

Temporary Power Foundation Monolithic  
date/app. by date/app. by date/app. by  
Under slab rough-in plumbing Slab Sheathing/Nailing  
date/app. by date/app. by date/app. by  
Framing Rough-in plumbing above slab and below wood floor  
date/app. by date/app. by  
Electrical rough-in Heat & Air Duct Peri. beam (Lintel)  
date/app. by date/app. by date/app. by  
Permanent power C.O. Final Culvert  
date/app. by date/app. by date/app. by  
M/H tie downs, blocking, electricity and plumbing Pool  
date/app. by date/app. by  
Reconnection Pump pole Utility Pole  
date/app. by date/app. by date/app. by  
M/H Pole Travel Trailer Re-roof  
date/app. by date/app. by date/app. by

BUILDING PERMIT FEE \$ 65.00 CERTIFICATION FEE \$ 0.00 SURCHARGE FEE \$ 0.00  
MISC. FEES \$ 0.00 ZONING CERT. FEE \$ FIRE FEE \$ 0.00 WASTE FEE \$  
FLOOD DEVELOPMENT FEE \$ FLOOD ZONE FEE \$ CULVERT FEE \$ TOTAL FEE 65.00  
INSPECTORS OFFICE Z. H. CLERKS OFFICE CH

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

**For Office Use Only** Application # 0606-89 Date Received 6/23/06 By LT Permit # 24664  
 Application Approved by - Zoning Official \_\_\_\_\_ Date \_\_\_\_\_ Plans Examiner \_\_\_\_\_ Date \_\_\_\_\_  
 Flood Zone \_\_\_\_\_ Development Permit \_\_\_\_\_ Zoning \_\_\_\_\_ Land Use Plan Map Category \_\_\_\_\_  
 Comments \_\_\_\_\_

Applicants Name Dwaine Carr. Jr  
Glen + Maudie Dabbs Phone 352 369 9469  
 Address 791 SW Rum Island Terr., Ft. White FL 32038  
 Owners Name Glen + Maudie Dabbs Phone \_\_\_\_\_  
 911 Address 791 SW Rum Island Terr. Ft. White FL 32038  
 Contractors Name H-J. McDonald Jr Phone 352 694-2580  
 Address PO Box 830157, Ocala FL 34483  
 Fee Simple Owner Name & Address \_\_\_\_\_  
 Bonding Co. Name & Address \_\_\_\_\_  
 Architect/Engineer Name & Address N/A  
 Mortgage Lenders Name & Address \_\_\_\_\_

Property ID Number 25-7S-16-04321-037H SX Estimated Cost of Construction 12,558.00  
 Subdivision Name Rum Island Ranches unrec Lot 56 Block \_\_\_\_\_ Unit \_\_\_\_\_ Phase \_\_\_\_\_  
 Driving Directions 475, TL on 27, TR 138, TL on Island Terr,  
2nd lot on left past Dana Glen. Rum

Type of Construction Metal Roof over - SDO Number of Existing Dwellings on Property \_\_\_\_\_  
 Total Acreage \_\_\_\_\_ Lot Size \_\_\_\_\_ Do you need a - Culvert Permit or Culvert Waiver or Have an Existing Dr  
 Actual Distance of Structure from Property Lines - Front \_\_\_\_\_ Side \_\_\_\_\_ Side \_\_\_\_\_ Rear \_\_\_\_\_  
 Total Building Height \_\_\_\_\_ Number of Stories 1 Heated Floor Area 1540 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 c 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 16 day of June 2006.  
 Personally known ✓ or Produced Identification \_\_\_\_\_

H.J. McDonald Jr.  
 Contractor Signature  
 Contractors License Number CEC001264  
 Competency Card Number \_\_\_\_\_

NOTARY STAMP  
Mary June Halloran  
 Notary Signature



Tax Folio No. 25-79-16-04321-037 HX SX

### NOTICE OF COMMENCEMENT

STATE OF FLORIDA  
COUNTY OF

Columbia

THE UNDERSIGNED hereby give notice that improvement will be made to certain real property, and in accordance with Chapter 713, Florida Statutes, the following information is provided in this Notice of Commencement.

1. Description of Property: W 1/2 of S 1/2 of S 1/4 of SW 1/4 of SW 1/4. (AKA W 1/2 of Lot 56 Rum Island Ranches Unrec) ORB 338-582, 364, -641)
2. General description of improvement: Metal ~~Roof~~ -over
3. Owner information:
  - a. Fee Simple Titleholder
  - b. Name: Glen + Maudie Dobbs
  - c. Address: 791 SW Rum Island Terr  
Fort White, FL 32038
4. Contractor:  
H.J. McDonald, Jr.  
Window Supply, Inc.  
Post Office Box 830157  
Ocala, FL 34483-0157
5. Surety: Not Applicable
6. Lender:
  - a. Name and Address:
7. Persons within the State of Florida designated by Owner upon whom notice or other documents may be served as provided by Section 713.13(12)(b), Florida Statutes:
8. In addition to himself, Owner designates the following person(s) to receive a copy of the Lienor's Notice as provided in Section 713.13(12)(b), Florida Statutes:
9. Expiration date of notice of commencement \_\_\_\_\_, 20

(Signature)

\* Glen + Maudie Dobbs (Signature)  
\* Owner Name: Glen + Maudie Dobbs  
\* Address: 791 SW RUM ISLAND TERR  
FT. WHITE FLA.

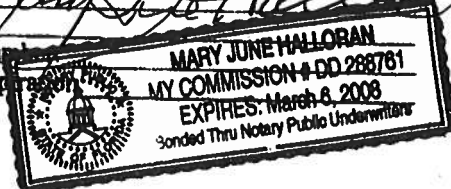
Sworn to and subscribed before me by Glen + Maudie Dobbs who produced  
as identification and who did not take an oath, this 3th day of June 2006.

Notary Public

Printed Name

Commission Number

Commission Expires



Seal



**WINDOW SUPPLY, INC.**

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

Date: 6/15/2006

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

Dwayne Carrico

Signature

Dwayne Carrico

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 6/15/2006, by H.J. McDonald Jr. who is personally known to me and did not take an oath.

Notary Public

State Of Florida At Large



1443122

## STATE OF FLORIDA

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION  
CONSTRUCTION INDUSTRY LICENSING BOARD

SEQ# L04060901841

DATE	BATCH NUMBER	LICENSE NBR
5/09/2004	030711948	CRC001864

The RESIDENTIAL CONTRACTOR  
Named below IS CERTIFIED  
Under the provisions of Chapter 489 FS.  
Expiration date: AUG 31, 2006

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

FL 34480

JEB BUSH  
GOVERNOR

DIANE CARR  
SECRETARY

DISPLAY AS REQUIRED BY LAW

THIS LICENSE IS ISSUED PURSUANT TO MARION COUNTY ORDINANCE 91-26 AND CHAPTER 205, FLORIDA STATUTES

2005-2006 MARION COUNTY OCCUPATIONAL LICENSE  
STATE OF FLORIDA

EXPIRES SEPTEMBER 30, 2006

ACCOUNT NO:

VALID IF NO OTHER LAW(S) OR ORDINANCES(S) IS VIOLATED

385-0765014

THE INDIVIDUAL OR FIRM NAMED BELOW IS HEREBY LICENSED  
TO ENGAGE IN THE BUSINESS, PROFESSION OR OCCUPATION OF

CERTIFIED RESIDENTIAL CONT "C"  
THIS LICENSE MUST BE POSTED CONSPICUOUSLY IN YOUR PLACE OF BUSINESS  
BUSINESS LOCATION  
BUSINESS PHONE

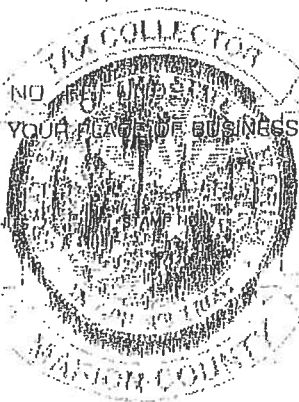
4441 SE 53 AVE  
STATE REGULATORY NO. 35218710065360

RC001864

SCC454

WINDOW SUPPLY INC  
MC DONALD HJ JR  
P O BOX 880157  
OCALA

FL  
34483



PAID MARION COUNTY  
DATE 8/08/05 TILL 998  
CNTL 1833690.0001  
AMT 15.00

GEORGE ALBRIGHT, TAX COLLECTOR  
503 SE 25th Ave  
P.O. Box 1812  
Ocala, FL 34478-1812  
(352) 368-8200

THIS BECOMES A RECEIPT ONLY WHEN VALIDATED BY RECEIPTING  
MACHINE SHOWING RECEIPT NUMBER, DATE AND AMOUNT PAID.

SEE REVERSE SIDE FOR  
ADDITIONAL INFORMATION

# Contract and Agreement

## WINDOW SUPPLY, INC.

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

CONTRACT AMOUNT 12,558<sup>00</sup>  
DOWN PAYMENT \$  
AMOUNT OF CONSOLIDATION \_\_\_\_\_  
TOTAL BALANCE 12,558 DATE 6-5-2006

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) Glenn Debbs - Maude Debbs PHONE 352-464-1367  
ADDRESS 791 SW Rum Island Trl CITY FT. WHITE STATE FL ZIP 32058

### DESCRIPTION OF WORK TO BE DONE AND MATERIALS TO BE USED:

- ① Install Complete Solar Shield Metal Roofing System Complete w/ dual radiant barrier
- ② Color - Evergreen
- ③ 3 sheets 4x8 plywood included for any damage to areas additional sheets @ \$100 ea.
- ④ Reboot & Replace vents - Replace old turbine vents
- ⑤ All warranties delivered at completion of job
- ⑥ all debris removed each day & at completion of installation

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 it's discretion.

APPROXIMATE START DATE 7-6 wks APPROXIMATE COMPLETION DATE 5-7 wks

### 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 120 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

- A. Do not sign this home improvement contract in blank.
- B. You are entitled to a copy of the contract at the time you sign. Keep it to protect your legal rights.
- C. 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.
- D. 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 James White Date 6-5-06 Buyer Glenn Debbs Date June 15 06  
Co-Buyer Maude Debbs Date 6/5/06

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

# ACORD CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

06/01/2006

PRODUCER (352)732-4550 FAX (352)732-0132

Lossing Insurance Agency, Inc.  
1724 SE 17th Avenue  
Ocala, FL 34471

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.

INSURERS AFFORDING COVERAGE

NAIC #

INSURED Window Supply Inc  
DBA National Homecraft  
PO Box 830157  
Ocala, FL 34484

INSURER A: Scottsdale Insurance Co

INSURER B: Owners Insurance Co

32700

INSURER C: Bridgefield Employers Insurance Co

INSURER D:

INSURER E:

## 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	INSRD	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRATION DATE (MM/DD/YY)	LIMITS	
A		GENERAL LIABILITY	CLS1232615	02/08/2006	02/08/2007	EACH OCCURRENCE	\$ 1,000,000
		<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY				DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 50,000
		<input type="checkbox"/> CLAIMS MADE <input checked="" type="checkbox"/> OCCUR				MED EXP (Any one person)	\$ 5,000
		<input checked="" type="checkbox"/> \$2500 BI, PD, P&A				PERSONAL & ADV INJURY	\$ 1,000,000
		<input type="checkbox"/> Deductible				GENERAL AGGREGATE	\$ 2,000,000
		GEN'L AGGREGATE LIMIT APPLIES PER:				PRODUCTS - COMP/OP AGG	\$ 1,000,000
		<input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC					
B		AUTOMOBILE LIABILITY	4625240301	02/08/2006	02/08/2007	COMBINED SINGLE LIMIT (Ea accident)	\$ 1,000,000
		<input type="checkbox"/> ANY AUTO				BODILY INJURY (Per person)	\$
		<input checked="" type="checkbox"/> ALL OWNED AUTOS				BODILY INJURY (Per accident)	\$
		<input checked="" type="checkbox"/> SCHEDULED AUTOS				PROPERTY DAMAGE (Per accident)	\$
		<input checked="" type="checkbox"/> HIRED AUTOS					
<input checked="" type="checkbox"/> NON-OWNED AUTOS							
		GARAGE LIABILITY				AUTO ONLY - EA ACCIDENT	\$
		<input type="checkbox"/> ANY AUTO				OTHER THAN EA ACC	\$
						AUTO ONLY: AGG	\$
		EXCESS/UMBRELLA LIABILITY				EACH OCCURRENCE	\$
		<input type="checkbox"/> OCCUR <input type="checkbox"/> CLAIMS MADE				AGGREGATE	\$
							\$
		<input type="checkbox"/> DEDUCTIBLE					\$
		RETENTION \$					\$
C		WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	830-34542	06/01/2006	06/01/2007	<input checked="" type="checkbox"/> WC STATUTORY LIMITS	OTH-ER
		ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED?				E.L. EACH ACCIDENT	\$ 100,000
		If yes, describe under SPECIAL PROVISIONS below				E.L. DISEASE - EA EMPLOYEE	\$ 100,000
		OTHER				E.L. DISEASE - POLICY LIMIT	\$ 500,000

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

Qualifier Name - James Gardner Strickland, Jr  
State License Number CCC 1326725  
Qualifier Name - H J McDonald Jr  
State License Number CRC 001864

## CERTIFICATE HOLDER

Columbia County Building Department  
PO Box 1529  
Lake City, FL 32056-1529

## CANCELLATION

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 MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE INSURER, ITS AGENTS OR REPRESENTATIVES.

AUTHORIZED REPRESENTATIVE

Kim Sheffield A293346



# The Florida Department of Community Affairs Building Code Information System

## PRODUCT APPROVAL

Product Type Detail

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 ULC 580 1994

Certification Agency: Underwriters Laboratories Inc.

Quality Assurance Entity:

Validation Entity:

Authorized Signature: Glenn Hart  
dhart@unioncorrugating.com

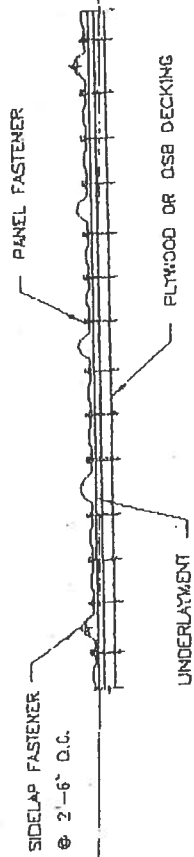
Evaluation/Test Reports Uploaded:  
Installation Documents Uploaded:

PTID 4586 1 SVPanelsProfile.pdf  
PTID 4586 1 AdLokPanelProfile.pdf

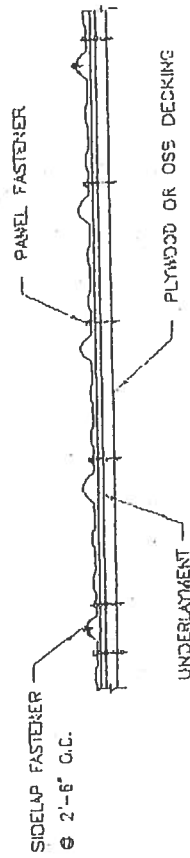
[http://www.floridabuilding.org/pr/pr\\_detail.asp?IPT=4586&RV=0&fm=ROSrch](http://www.floridabuilding.org/pr/pr_detail.asp?IPT=4586&RV=0&fm=ROSrch)

11/10/2005

up to Stuart



FASTENER PATTERN G EAVE, RIDGE & VALLEY



### FASTENER PATTERN @ INTERMEDIATE LOCATIONS



## MasterRib Panel Profile

26 or 29 Gauge, Minimum Yield = 80 KSI  
ASTM A792 for Galvalume Steel  
ASTM A755 for Painted Steel  
ASTM A652 for Galvanized Steel

[illegible]

# 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 drilling 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.

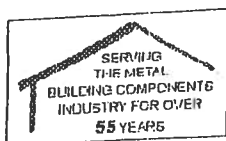
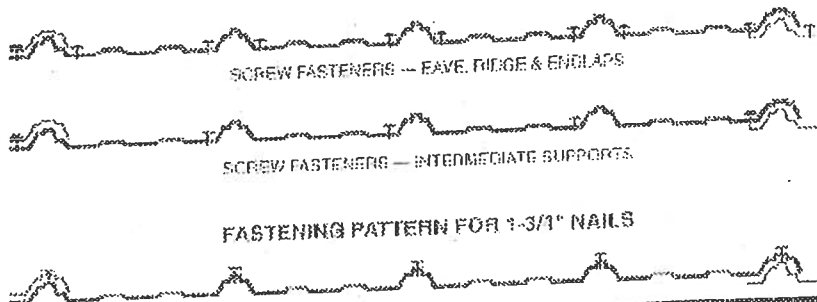
## Fastening

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

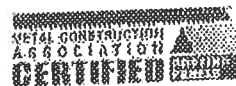
www.unioncorrugating.com

Figure #2 - (Nails only)

UNDER DRIVEN    CORRECT    OVER DRIVEN



Figure #3



SPENCER STEEL SUPPLY  
SPENCER, NC

ANDERSON STEEL SUPPLY  
ANDERSON, SC

ORANGE STEEL ROOFING PRODUCTS  
ORANGE, VA

WITON STEEL PRODUCTS  
TUSTIN, CA

UNICO METAL PRODUCTS  
OCALA, FL

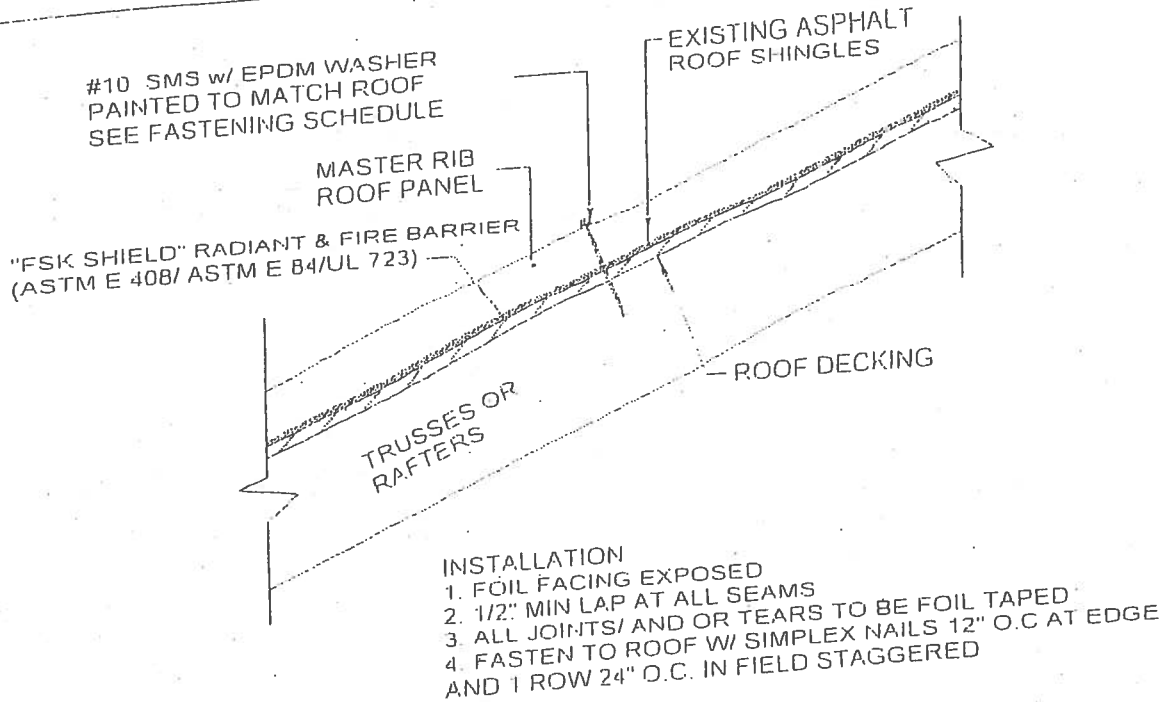
VICKSBURG METAL PRODUCTS  
VICKSBURG, MS

DAYTON METALS  
FIQUA, OH

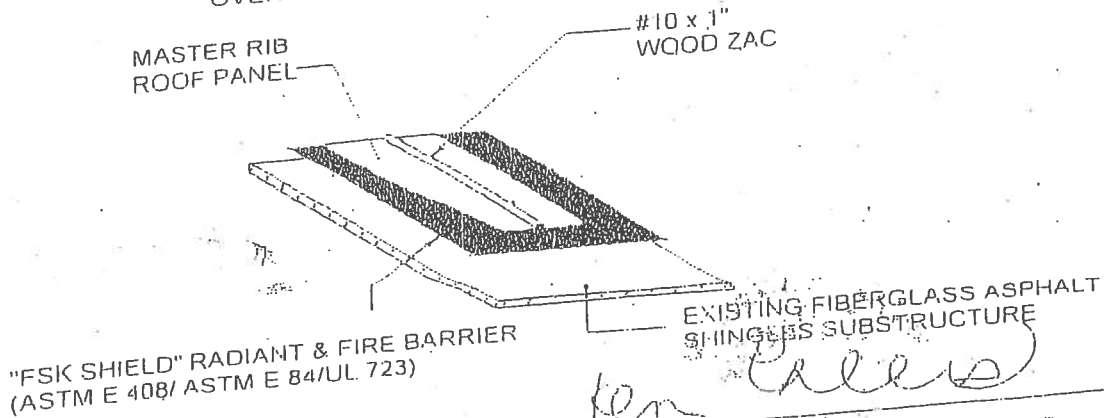
GREAT PLAINS METALS  
VICTOR, OK

# FI-FOIL CO. "FSK SHIELD" RADIANT BARRIER DETAIL

NATIONAL FIRE PROTECTION ASSOC. - [CLASS "A" FIRE RATING ASTM E 84/ UL723)



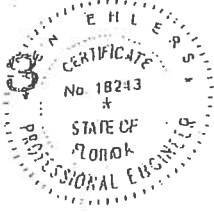
## CROSS SECTION OF TYPICAL INTERMEDIATE LOCATION OVER EXISTING SHINGLED ROOF OR NEW WOOD ROOF DECK



MASTER RIB  
Metal Roofing System

Ken Ehlers, P. E. FEB 9 2005  
Licensed Professional  
Engineer No. 18243  
531 S. SR. 438 STE. 2005  
Altamonte Springs, FL 32714  
Phone (407)-290-2799

NOTE:  
THIS STRUCTURE HAS BEEN DESIGNED  
TO MEET OR EXCEED THE 140 M.P.H. WIND  
REQUIREMENTS OF SEC 1606 OF THE  
FLORIDA BUILDING CODE 2001 EDITION.





# The Florida Department of Community Affairs Building Code Information System

## PRODUCT APPROVAL

Product Type Detail

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: PTID\_4586\_1\_SVPanelsProfile.pdf  
Installation Documents Uploaded: PTID\_4586\_1\_AdLocPanelProfile.pdf

[http://www.floridabuilding.org/pr/pr\\_detail.asp?TPT=4586&RV=0&fm=ROSrch](http://www.floridabuilding.org/pr/pr_detail.asp?TPT=4586&RV=0&fm=ROSrch)

11/10/2005

up to Stuart

PTID 4586 I MasterRibPanelProfile.pdf  
PTID 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:

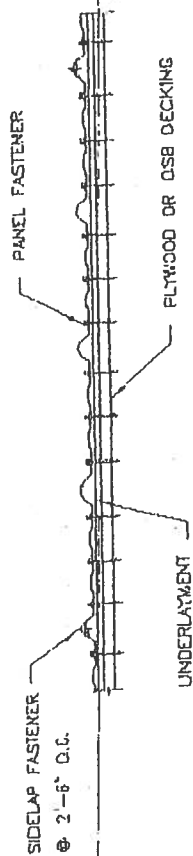
Page 1 / 1

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.

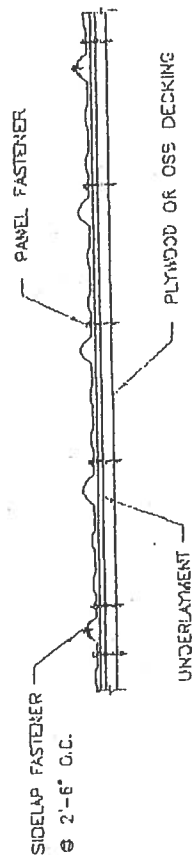
Next



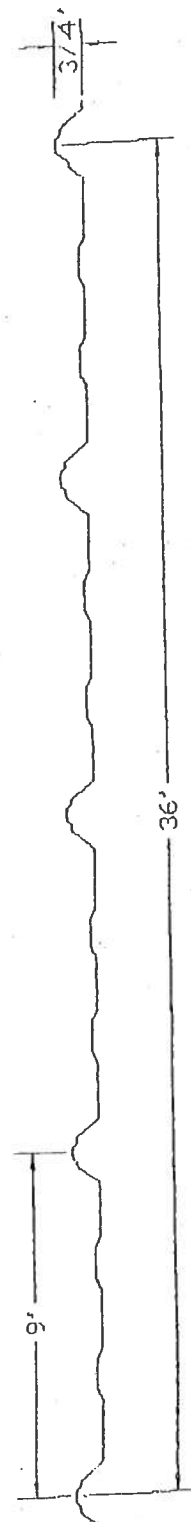
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FASTENER PATTERN & EAVE RIDGE & VALLEY



### FASTENER PATTERN @ INTERMEDIATE LOCATIONS



# MasterRib Panel Profile

26 or 29 Gauge, Minimum Yield = 80 KSI  
ASTM A792 for Galvalume Steel  
ASTM A755 for Painted Steel  
ASTM A653 for Galvanized Steel

[illegible]

# 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 drilling 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.

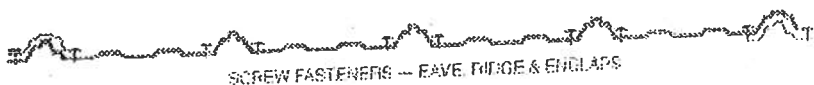
## Fastening

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

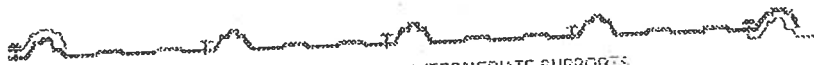
**Screws** - For best results use a 1-1/2" double washered wood screw in the flat of the panel as shown in the illustration below. Fasteners should be applied at every purlin. Drive the fastener so that the washer is compressed securely against the metal. Do not over drive the fastener as this will form 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

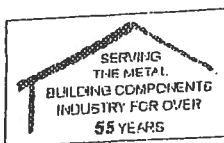


SCREW FASTENERS — EAVE, RIDGE & ENLAPS



SCREW FASTENERS — INTERMEDIATE SUPPORTS

FASTENING PATTERN FOR 1-3/4" NAILS



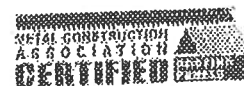
**UNION**  
CORRUGATING COMPANY  
Fayetteville, NC

[www.unioncorrugating.com](http://www.unioncorrugating.com)

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



**Figure #3**



SPENCER STEEL SUPPLY  
SPENCER, NC

ANDERSON STEEL SUPPLY  
ANDERSON, SC

ORANGE STEEL ROOFING PRODUCTS  
ORANGE, VA

TIFTON STEEL PRODUCTS  
TIFTON, GA

UNICO METAL PRODUCTS  
OCALA, FL

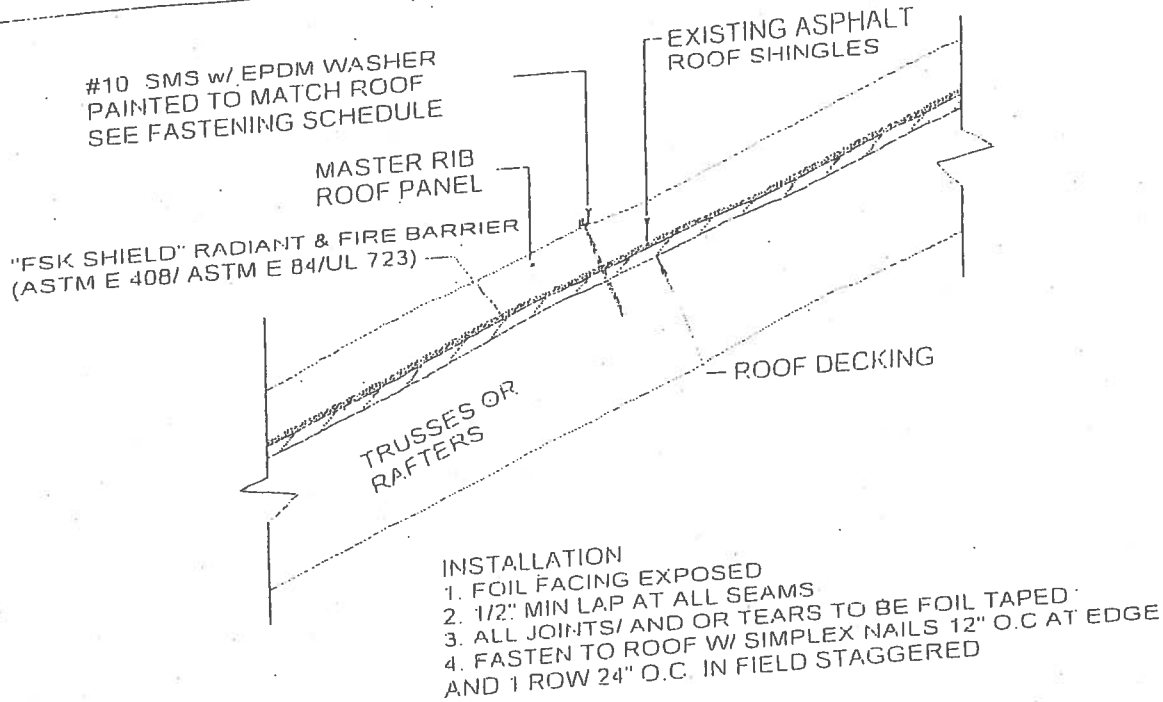
VICKSBURG METAL PRODUCTS  
VICKSBURG, MS

DATON METALS  
DAYTON, OH

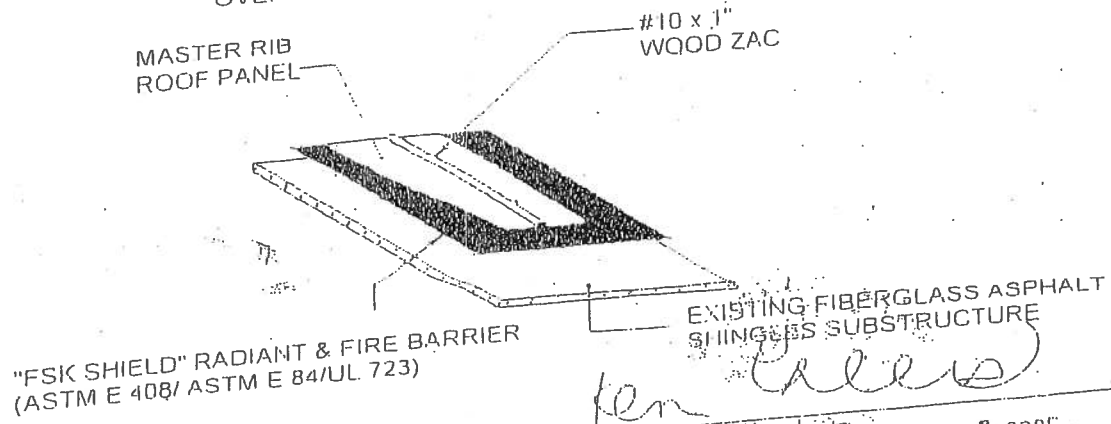
GREAT PLAINS METALS  
VIENNA, OK

# FI-FOIL CO. "FSK SHIELD" RADIANT BARRIER DETAIL

NATIONAL FIRE PROTECTION ASSOC. - [CLASS "A" FIRE RATING ASTM E 84/ UL723)



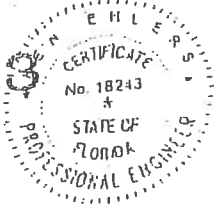
## CROSS SECTION OF TYPICAL INTERMEDIATE LOCATION OVER EXISTING SHINGLED ROOF OR NEW WOOD ROOF DECK



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Ken Ehlers, P.E. FEB 9 2005  
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531 S. SR. 434 STE. 2005  
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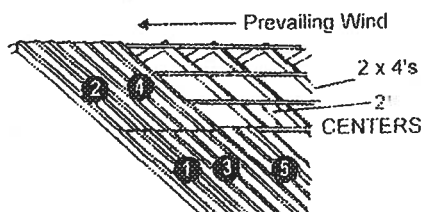


# Installation Instructions for MasterRib®

## Roofing

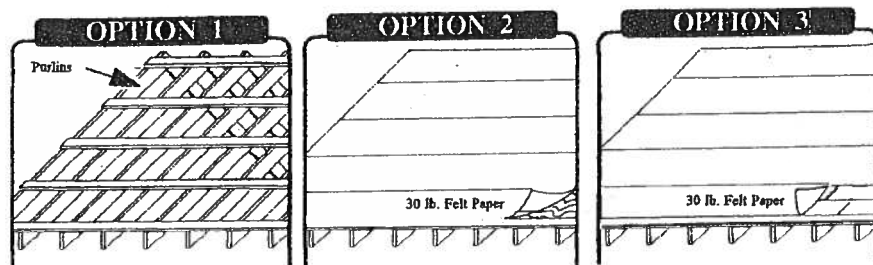
Slopes of less than 3" on 12" are not recommended. For slopes of 3" on 12" or greater, end lap panels 6". Side laps should face away from the prevailing wind. Lay the first sheet along the eave at the down-wind side of the roof, farthest away from the direction of the prevailing winds. (See Figure #4). Install sheets in the sequence shown in Figure #4.

Figure #4



Maximum purlin spacing for roof 2' on center

Figure #5 - Installation Options



### Install Metal Directly To Wood Frame

- Use Maximum 2' Purlin Spacing
- Install Metal

**\*DO NOT USE THIS OPTION FOR HEATED SPACES**

### Install Metal On Solid Deck

- Lay Plywood Deck
- Apply 30 lb. felt paper
- Install Metal

### Install Metal Over Existing Shingles

- Apply 30 lb. felt paper
- Install Metal

**\*Proper ventilation and vapor barrier protection recommended for heated spaces.**

Allow an overhand of 2" at the eave to provide for a drip edge. Use inside closure at eave to prevent insect or bird infestation at openings.

To protect against uplifting winds and to provide a finished appearance, apply rake trim or other standard gable trim. Apply fasteners every 6-10". 14" ridge roll or ridge cap is recommended to prevent leakage. Seal off ridge and panel using outside closure strip.

Use of 3/8" side lap tape is recommended. Apply the tape as shown in Figure #6 along the top of all lap ribs. Do not block the siphon channel with the tape. For best results, apply a 7/8" lap tek screw into the crown of the rib to secure the side lap.

Figure #6 - Proper Application of Side Lap Tape



## Siding

For best results, start siding at a door, window or other opening in the wall. Use corner trim, base molding, eave trim, and other trim to improve the weather-tightness and appearance of the structure.

### ALLOWABLE UNIFORM LOADS PER SQUARE FOOT

Maximum purlin spacing for roof 2' on center and maximum girt spacing for sidewall 3' on center.

Place fasteners in the pan of panel for best results.

(Three Spans or More)

Span (inches)	LIVE LOADING							WIND UPLIFT LOADING						
	18"	24"	30"	36"	48"	60"	72"	18"	24"	30"	36"	48"	54"	72"
29 Gauge	200	112	72	50	28	18	14	281	158	101	70	40	25	18
26 Gauge	268	151	97	67	38	24	24	368	207	132	92	52	33	23

### NOTES:

The panel weight has been deducted from the allowable stress values.

The wind uplift stress values have been increased by 33-1/3%.

The properties and load tables are for the panel alone.

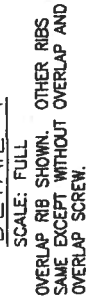
The panel section properties have been calculated in accordance with the 1996 AISI Specification.

Steel panel material conforms to ASTM A446-85.

MasterRib® UL Ratings: UL2218 Impact Resistance Class 4 --- UL790 Fire Resistance Class A

26Ga MasterRib® Miami Dade County Product Control Approved NOA #02-0726.06 Exp. 9/05/2007, Florida Code Approval #FL72 and ASCE 7-98 Compliant (meets FL Bldg Code); 29 Ga MasterRib® Florida Code Approval #FL2287

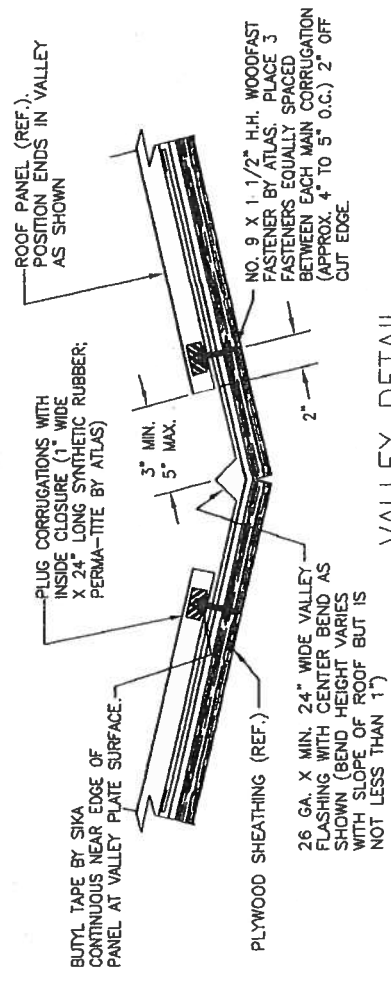
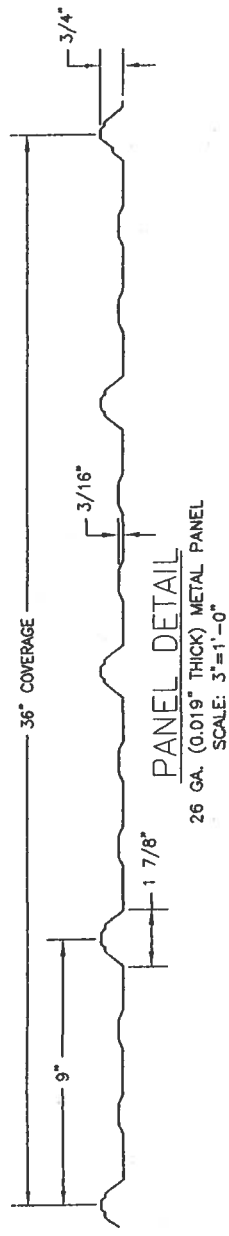
It is the users responsibility to verify all applicable code requirements for the area, check all measurements, and determine suitability of product for job. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE DISCLAIMED. Copyright© 1998 by Union Corrugating Company. All rights reserved.



NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE: MASTER RIB ARCHITECTURAL METAL ROOF PANEL  
 CONSULTANTS: BALA SOCKALINGAM, PH.D., P.E.  
 MANUFACTURER: UNION CORRUGATING CO.  
 701 S. KING STREET  
 4711 S. YALE AVE. SUITE 200

CERTIFICATION
DRAWING NO. 1428
SHEET NO. 2



VALLEY DETAIL  
 SCALE: 3"=1'-0"

SEE SHEET 1 FOR PANEL DETAILS

# Installation Instructions for MasterRib®

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**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.

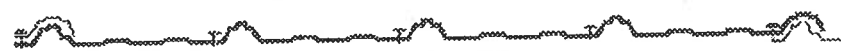
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**Figure #1 - Fastening Patterns for MasterRib®**

**RECOMMENDED FASTENING PATTERN FOR 1-1/2" SCREWS**

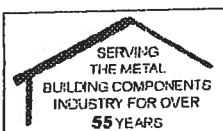


SCREW FASTENERS — EAVE, RIDGE & ENLAPS



SCREW FASTENERS — INTERMEDIATE SUPPORTS

**FASTENING PATTERN FOR 1-3/4" NAILS**



**UNION**  
CORRUGATING COMPANY  
Fayetteville, NC

[www.unioncorrugating.com](http://www.unioncorrugating.com)

**Figure #2 - (Nails only)**

**UNDER DRIVEN CORRECT OVER DRIVEN**



**Figure #3**



SPENCER STEEL SUPPLY  
SPENCER, NC

ANDERSON STEEL SUPPLY  
ANDERSON, SC

ORANGE STEEL ROOFING PRODUCTS  
ORANGE, VA

TIFTON STEEL PRODUCTS  
TIFTON, GA

UNICO METAL PRODUCTS  
OCALA, FL

VICKSBURG METAL PRODUCTS  
VICKSBURG, MS

DAYTON METALS  
PIQUA, OH

GREAT PLAINS METALS  
ST. LOUIS, MO

## SPECIFICATION SHEET

## FSK SHIELD™

## RADIANT BARRIER &amp; INSULATION FACING

FSK Shield™ is an economy grade single-sided foil facing that is comprised of 0.0003" aluminum foil bonded to 30 lb. natural kraft paper with a flame retardant adhesive and is reinforced with tri-directional fiberglass scrim. FSK Shield™ is intended for use as an attic, roof, or wall radiant barrier and as a class A insulation facing. The product also can be used as an effective vapor barrier. FSK Shield™ is available in 1000 square foot rolls 54" wide. Other widths available by special order.

**RADIANT BARRIER SYSTEM (RBS)** is a building construction consisting of a low emittance (normally 0.1 or less) surface (usually aluminum foil) bounded by an open air space. RBS is used for the sole purpose of limiting heat transfer by radiation and is not specifically intended to reduce heat transfer by convection or conduction.

**HOW DO RADIANT BARRIERS BLOCK HEAT TRANSFER & WHAT ARE THE BENEFITS?** In a home without a radiant barrier at the roof line, your roof radiates solar-generated heat which elevates attic temperatures upward to 150 degrees or higher. These higher temperatures will increase the heat gain in your air conditioning ducts and reduce the performance of mass insulation (the R-values of mass insulation are determined at 75°F - higher temperatures lowers the R-value). In addition, the extreme temperatures will saturate the building materials in the attic. This stored heat acts as a heat sink and will continue to transfer heat into the living area of your home even after the sun has set, making your air conditioner run longer and consume more electricity. A radiant barrier stops 97% of radiant heat transfer which improves the performance of the insulating material and lowers attic temperatures as much as 30°F. Another benefit is that a cooler attic will transfer less heat into air conditioner ducts. Radiant barriers also expand the use of space in your home like garages, workrooms, porches, etc. Radiant barriers also reduce winter heat loss.

**R-VALUE** is the rating given to show the resistance "R" to heat flow and is used to compare insulation materials that trap air or a gas or reduce heat flow by convection and conduction. Therefore, R-values are not a true measure of the thermal performance of Radiant Barrier Systems.

**THERMAL PERFORMANCE** - FSK Shield™ has thermal applications other than as a Radiant Barrier. However, in all cases, FSK Shield™ should be installed so the foil is exposed to an airspace or thermal performance will be compromised. R-values in closed cell configurations such as wall, ceiling, and floor cavities can be calculated using the ASHRAE book of fundamentals.

#### TABLE OF EMITTANCES

E-Values (the lower the better)

Aluminum Foil ..... 03-.05

Common building materials,  
including wood, masonry, and  
standard mass insulation. ... 82-.90

**EFFECTIVE AIR SPACE EMITTANCE** is the radiation heat transfer property "E" of an air space determined by the emissivity of the surfaces bounding that air space.

**EMISSIONITY** is the ratio of the total radiant flux emitted by a body to that emitted by an ideal black body at the same temperature.

**VAPOR BARRIER APPLICATION** - FSK Shield™ can be used as an effective vapor barrier and can be installed with foil or paper exposed. All seams should be taped with FI-Foil's foil tape.

**CLASS A FLAME SPREAD FACING** - FSK Shield™ can be used to improve flame spread and smoke developed ratings of wall systems, specifically unfaced fiberglass batts and can be installed with foil or paper exposed. Installing FSK Shield with the foil side exposed will provide better flame spread rating. Tape seams with FI-Foil's foil tape.



## PRODUCT INFORMATION

Width of Roll	54"
Diameter	5"
Lineal Footage	222'
Coverage	1000 sq. ft.
Weight	25 lbs.

## TEST DATA

ASTM E-96 Water Vapor Permeance	0.02
ASTM E-84/UL 723 Surface Burning Kraft Exposed Flame Spread Rating	25
Kraft Exposed Smoke Developed Rating	10
Foil Exposed Flame Spread Rating	5
Foil Exposed Smoke Developed Rating	0
FSKShield & Unfaced Batt Flame Spread Rating	15
Smoke Developed Rating	0
ASTM E-408 Emissivity	0.03
ASTM D-828 Tensile Strength lbs./in.	MD:40; XD:25
Scrim pattern per lineal inch	MD:2; XD:3
ASTM D-774 Mullen Burst Strength	40 psi
ASTM C-1138 Mold and Mildew	Pass
Dimensional Stability percent length change	0.25%
Low Temperature Resistance no cracking or delam	40°F
High Temperature Resistance no cracking or delam	240°F
Puncture Resistance, Beach puncture units (Joules)	25

FSK Shield™ - Radiant Barrier & Insulation Facing

## COMPLIANCE AND APPROVALS



Meets Federal  
Specification  
HH-1-1252-B



P. O. Box 800  
Auburndale, FL 33823  
800-448-3401  
863-965-1846