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Gainesville, Florida 32607

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scorpioco.com

Submittal

JOB NAME: Lake County Fire Station Wind Mitigation **DATE:** 12/22/2025

OWNER/ARCHITECT JOB#: 25-923 **SCORPIO JOB #:** 25061

SPEC SECTION: Thermal and Moisture Protection **SPEC NUMBER:** 07 00 00 **REV:** 0

SUBCONTRACTOR/VENDOR: Collis Roofing

SUPPLIER: See Submittal

CONTRACTOR COMMENTS:	CONTRACTOR'S STAMP:												
Product data sheets for skylights on Standing Seam Metal roofs being removed.	<div style="border: 2px solid black; padding: 10px;"> <p style="text-align: center;">SHOP DRAWINGS / SUBMITTAL REVIEW</p> <p style="font-size: 8px;">SUBMITTAL WAS REVIEWED FOR DESIGN AND GENERAL CONFORMANCE TO CONTRACT DOCUMENTS ONLY. THE SUBMITTING CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITE FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESS AND TECHNIQUE OF CONSTRUCTION, COORDINATION OF HIS WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH CONTRACT DOCUMENTS.</p> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: right;"> <p>Scorpio.</p> <p style="font-size: 8px;">3911 W. University Ave. Gainesville, FL 32607 f: 352.363.6070</p> </div> </div> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 25%; border-bottom: 1px solid black;">REVIEWED</th> <th style="width: 25%; border-bottom: 1px solid black;">REVIEWED W/ CHANGES</th> <th style="width: 25%; border-bottom: 1px solid black;">REVISE AND RESUBMIT</th> <th style="width: 25%; border-bottom: 1px solid black;">REJECTED</th> </tr> </thead> <tbody> <tr> <td style="border-top: 1px solid black; height: 40px;">BY</td> <td colspan="2" style="border-top: 1px solid black;">DATE</td> <td></td> </tr> <tr> <td style="border-top: 1px solid black;">SUBMITTAL#</td> <td colspan="2" style="border-top: 1px solid black;">SPEC</td> <td></td> </tr> </tbody> </table> </div>	REVIEWED	REVIEWED W/ CHANGES	REVISE AND RESUBMIT	REJECTED	BY	DATE			SUBMITTAL#	SPEC		
REVIEWED	REVIEWED W/ CHANGES	REVISE AND RESUBMIT	REJECTED										
BY	DATE												
SUBMITTAL#	SPEC												
ARCHITECT COMMENTS:	ARCHITECT'S STAMP:												
	<div style="border: 1px solid red; padding: 5px;"> <p style="font-size: 8px;"> <input checked="" type="checkbox"/> Reviewed – No Comments <input type="checkbox"/> Reviewed – See Comments <input type="checkbox"/> Revise and Resubmit <input type="checkbox"/> Rejected – Re-Submittal Required </p> <p style="font-size: 8px;">This review is only for general conformance with the design concept of the project and general compliance with the information give in the Contract Documents. Quantities and exact dimensions are the responsibility of the contractor and/or subcontractor. This review does not affect the requirements of any contract, nor imply any approval of construction methods and/or safety requirements. This review does not authorize a change in contract value.</p> <p style="font-size: 8px;"> Forefront Architecture & Engineering, LLC FL License No. AR102538 CA License No. CA30900 Signature Date 1/8/26 Project 25-10518 Fire Station Hazard Mitigation </p> </div>												
ENGINEER COMMENTS:	ENGINEER'S STAMP:												

Lake County Fire Stations

Wind Mitigation

Lake County, FL



SSM Roof Skylight Removal Submittal

Fire Station 53: 2505 Spring Lake Road, Fruitland Park, FL 34731

Fire Station 59: 1201 Lewis Road, Leesburg, FL 34748

Fire Station 82: 24939 US-27, Leesburg, FL 34788

Architect

Forefront Architecture & Engineering
1230 Oakley Seaver Drive, Suite 100

General Contractor

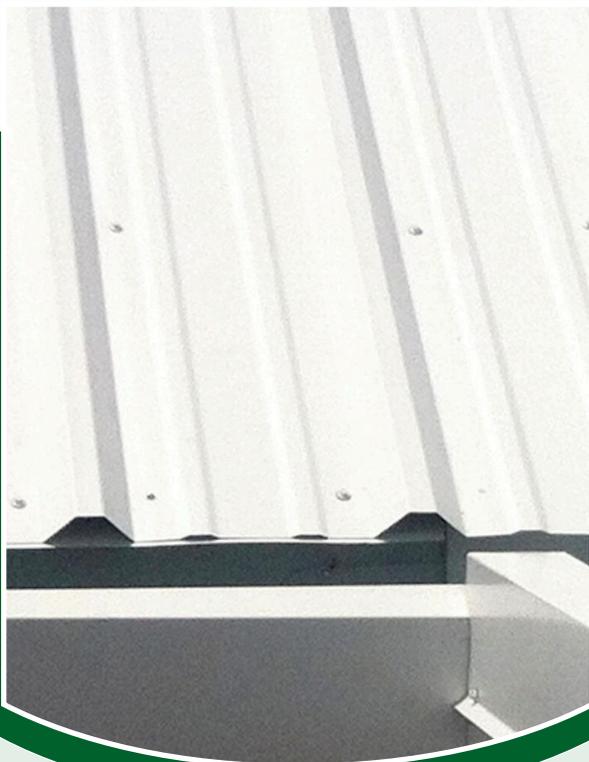
Scorpio
151 Southhall Ln, Suite 170
Maitland, FL 32751

Roofing Contractor



485 Commerce Way
Longwood, FL 32750

PBR/IR Panel



PBR and IR metal roofing panels are designed for industrial, commercial, and steel-frame building applications. The “R” family of metal roofing panels has the strength to perform on roof pitches as low as 1:12 and on spans up to five feet. IR panels are designed for sidewall applications while the PBR panel has an added purlin bearing leg to provide better support for roofing applications.

SPECIFICATIONS

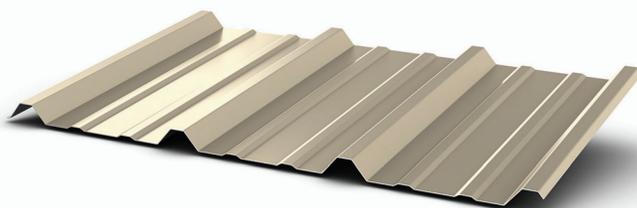
- Exposed fastener panel for roof and wall applications
- 1:12 minimum recommended roof pitch (PBR can go as low as 1:12)
- Suitable for solid deck or open framing

SUBSTRATES AND COATINGS

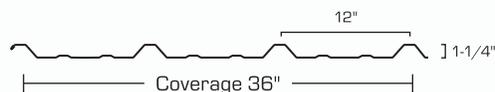
- High-strength steel substrate
- Anti-corrosion Galvalume® coating for painted and unpainted steel
- 26 and 24 gauge unpainted Galvalume® Plus
- 26 gauge Signature® 200 siliconized polyester paint system (select colors)
- Painted panels feature 45-year limited finish warranty coverage

TESTING AND APPROVALS

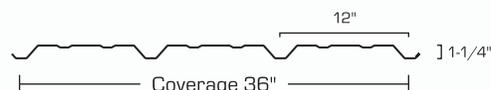
- Metal Construction Association Certified
- No Coastal Set Back
- UL 580 Uplift UL 90 Construction #30, 79, 161, 167, and 638
- UL 790 Fire Resistance Class A
- UL 2218 Impact Resistance Class 4
- Florida Building Code Approved:
 - 42378.10 - 29ga - 22ga, 16ga (min) girts - wall
 - 42379.5 - 26ga or 24ga, 15/32 (min) plywood
 - 42832.12 - 22ga - 29ga, 16ga (min) girts



PBR Panel



IR Panel



PBR · R · IR PANEL INSTALLATION GUIDE



Your Roof. For Life!
On Time and Complete!™

IMPORTANT NOTICE:

This is only a guide. It is the users responsibility to verify local building code requirements. Please check with your local building code office before beginning any project.

Storage

If metal is not to be installed 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 detracts 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.

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. Remove any loose metal shavings left on roof surface immediately to prevent corrosion. Keep roof free of debris that could trap moisture on the metal, causing corrosion. The R Panel is recommended for use on side walls only. For roof installations, use the PBR Panel which has a purlin bearing leg to provide greater support at the laps. The IR Panel is used on side walls only. The minimum pitch for roofing applications is 1:12.

Safety Precautions

Always wear heavy gloves when working with steel panels to avoid cuts from sharp edges. When power cutting or drilling steel panels, always wear safety glasses 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 thinner than 29 gauge.

Fastening

If you wish to pre-drill fastener holes, use a cover sheet to prevent hot metal shavings from sticking to panels. It is recommended that you cut panels upside down using a nibbler. For best results, use #14 x 7/8" Lap Tek Screws at panel overlaps. For installation into a steel frame, use #12 x 1" (minimum) Self-Drilling Screws. For installation into a wood frame, use #10 x 1" (minimum) Wood Screws. Position fasteners as shown in Figure 1.

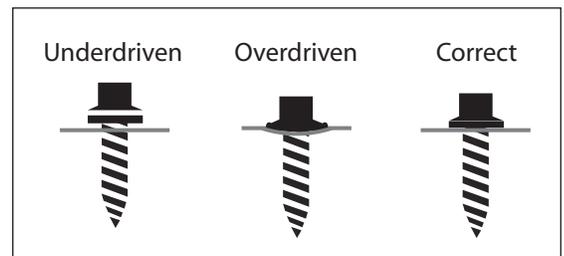
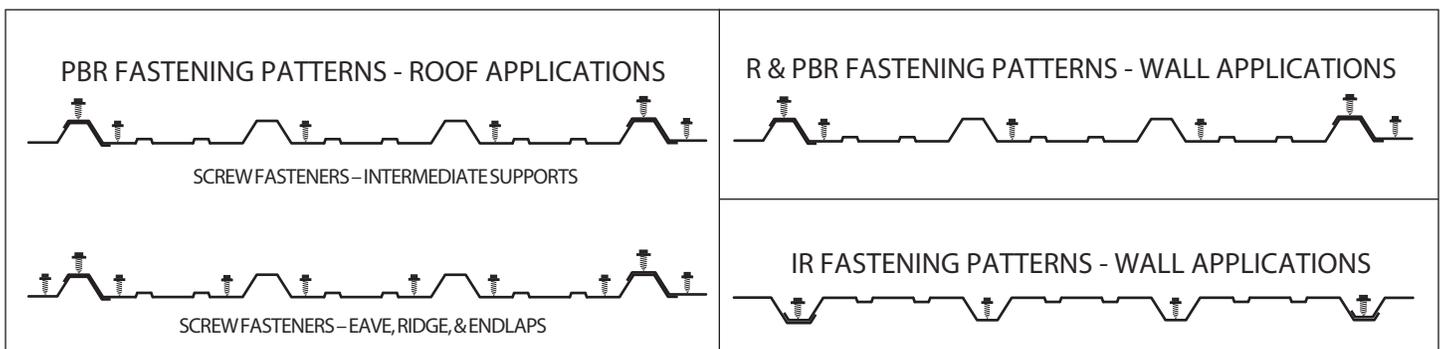


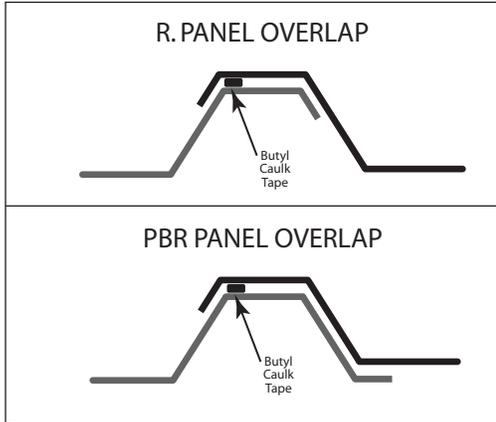
Figure 1



Roofing & Siding

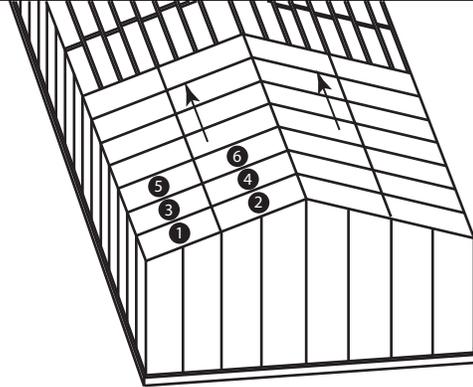
Since the R Panel profile is symmetric, either edge of the panel can be overlapped. For the PBR Panel, the non-purlin bearing leg side of the panel must lap over the purlin bearing leg side. In either case, it is recommended that the panel be installed so that the open side of the lap faces away from the prevailing wind. See Figure 2 for panel overlap diagram and Figure 3 for Sheet Installation Pattern.

Figure 2



Sheet
Installation
Pattern

Figure 3



Butyl Caulk Tape and Closure Strip

Eave: Apply Butyl Tape along entire eave. Remove upper protective cover from portion where panel is to be applied. Lay R Panel Inside Closure on top of tape. Apply another layer Butyl Tape on top of closure strip. Remove top layer of protective cover just before applying panel. (See Figure 4)

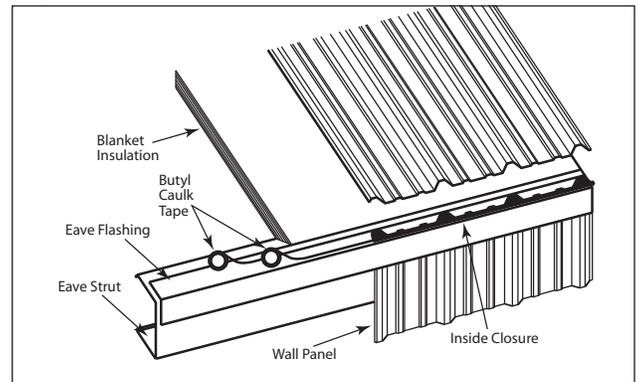
Ridge: For standard Ridge Cap, apply Butyl Tape both underneath and on top of outside closure strip, just below the fastener line as in eave application.

Sidelap: Apply Butyl Tape on the outer edge of the major rib of the underside of the panel. (See Figure 2)

Endlap: Apply Butyl Tape across the width of the underside panel just below the fastener line.

Gable/Rake Flashing: Apply Butyl Tape before applying Gable/Rake Trim.

Figure 4



ALLOWABLE UNIFORM LOADS PER SQUARE FOOT PBR Panels (IR Panel used on side walls)

		Allowable Live Loads (lb/ft ²)											Allowable Uplift Loads (lb/ft ²)										
		Span (ft)											Span (ft)										
GA	TS	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7
26	Stress	235.9	163.6	119.4	90.6	71.0	57.0	46.7	38.9	32.9	28.2	24.4	205.3	139.5	100.4	75.4	58.7	46.8	38.2	31.8	26.8	22.9	19.8
	80 ksi L/180	728.5	373.0	215.9	135.9	91.1	64.0	46.6	35.0	27.0	21.2	17.0	604.8	309.7	179.2	112.8	75.6	53.1	38.7	29.1	22.4	17.6	14.1
24	Stress	318.2	211.6	150.2	111.9	86.5	68.8	56.0	46.4	39.1	33.4	28.8	305.1	202.3	143.3	106.6	82.3	65.4	53.2	44.1	37.2	31.7	27.4
	50 ksi L/180	1161.5	594.7	344.1	216.7	145.2	102.0	74.3	55.8	43.0	33.8	27.1	914.1	468.0	270.8	170.6	114.3	80.2	58.5	44.0	33.9	26.6	21.3

NOTES:

1. All load data is based on three or more spans (TS). For more information regarding spans or section properties, please contact Union Corrugating Company.
2. Allowable load based on stress is the smallest load due to bending, shear and combined bending and shear.
3. Allowable load based on deflection limit cannot exceed allowable load based on stress.
4. These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel.
5. Allowable uplift loads based on stress have not been increased by 33.33% for wind uplift.
6. Allowable loads for deflection are based on deflection limitation of span/180.
7. For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual 'live load' carrying capacity of the panel.

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. No parts of this document may be reproduced or distributed in any form whatsoever without prior written authorization.

METAL TO WOOD FASTENERS

WE PROTECT VALUE BY SECURING METAL TO WOOD

ACCESSORIES

RIVETS, PIPE FLASHING, SEALANT, CLOSURE, VENTING PRODUCTS

METAL TO METAL FASTENERS

WE PROTECT VALUE BY SECURING METAL TO METAL



#12 ULTIMATE®

- ZINC CAST HEAD WARRANTED AGAINST RED RUST FOR THE LIFE OF THE BUILDING
- LOW PROFILE DESIGN BLENDS IN WITH THE PANEL
- SPECIAL UNDERCUT DESIGN CONCEALS WASHER



#10 WOODTITE

- TYPE-17 POINT HELPS TO QUICKLY PENETRATE MULTIPLE LAYERS OF METAL PANELS
- DEEP THREAD FORM FOR MAXIMUM PULLOUT RESISTANCE



#14 WOODTITE™

- TYPE-17 POINT EASILY PENETRATES LAPPED HIGH TENSION STEEL
- DEEP THREAD FORM FOR MAXIMUM PULLOUT RESISTANCE



#10 ULTIMATE®

- ZINC CAST HEAD WARRANTED AGAINST RED RUST FOR THE LIFE OF THE BUILDING
- SPECIAL UNDERCUT DESIGN CONCEALS WASHER
- DEKFAST® MULTI-SEAL™ WASHER: PROVIDES 4 SEALING POINTS TO ENSURE POSITIVE SEAL EVEN WHEN DRIVEN AT EXTREME ANGLES
- IDEAL FOR 5V ROOF APPLICATIONS
- HIGH MAJOR THREADS WITH LOW MINOR THREADS FOR ENHANCED PULLOUT VALUES



[LOWPRO]2™

- COSMETICALLY APPEALING LOW HEAD HEIGHT BLENDS IN WITH PANEL
- HEAD CONCEALS SEALING WASHER
- WOBBLE FREE INSTALLATION
- #3 DRIVER INSTALLS ALL SIZES
- COARSE THREADS PROVIDE SECURE FASTENING INTO WOOD SUBSTRATE



ENDURAFAST™

- INTERRUPTED THREAD DESIGN PROVIDES 20% MORE RESISTANCE AGAINST FASTENER BACKOUT
- WARRANTED AGAINST FASTENER CORROSION WHEN INSTALLED IN CCA OR ACO LUMBER
- MAGNETIC 410 STAINLESS ENSURES THE FASTENER STAYS IN THE SOCKET



#12 WOODFAST

- LAP SCREW
- SHARP POINT TO PENETRATE HIGH TENSILE LAPPED STEEL
- BONDED EPDM WASHER
- DOUBLE LEAD THREAD DESIGN



LOW PROFILE PANCAKE

- FOR ATTACHING CLIPS TO WOOD SUBSTRATE
- TIGHTER FIT ON DRIVER BIT
- AVAILABLE IN CARBON AND 410 STAINLESS STEEL FOR CORROSION PROTECTION
- COARSE THREADS PROVIDE SECURE FASTENING INTO WOOD SUBSTRATE

Fasteners to match Existing



RIVETS



SEALANT



EPDM ROUND BASE



EPDM SQUARE BASE



HI-TEMP



RETROFIT



BUTYL TAPE



CLOSURE



VERSAVENT

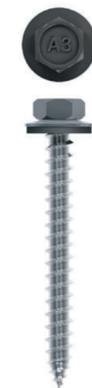


PROFILE VENT



ULTIMATE®

- ZINC CAST HEAD WARRANTED AGAINST RED RUST FOR THE LIFE OF THE BUILDING
- SPECIAL UNDERCUT ENTRAPS SEALING WASHER



304 STAINLESS

- SELF-TAPPING SCREW
- USE WHERE CORROSIVE ENVIRONMENTS REQUIRE STAINLESS FASTENERS
- AVAILABLE IN A, AB AND B POINTS
- PLATED FOR LUBRICATION DURING INSTALLATION
- DUCTILITY FOR HIGH STRESS APPLICATIONS
- MADE FROM 100% DOMESTIC 304 STAINLESS WIRE
- MADE IN USA



410 STAINLESS SD

- MAGNETIC FOR USE WITH STANDARD SOCKET DRIVERS
- BRIGHT HARDENED
- 410 STAINLESS STEEL FOR CORROSION RESISTANCE
- QUICK DRILLING
- BONDED EPDM WASHER



FLAT TOP®

- HIGHER HEX PROVIDES POSITIVE SOCKET ENGAGEMENT
- SPECIAL UNDERCUT DESIGN ENTRAPS SEALING WASHER



ULTRA-Z™

- INNOVATIVE TAPERED COMPRESSION POINT TECHNOLOGY PROVIDES AN ULTRA-SHARP CUTTING EDGE



[LOW PRO]2® SD

- COSMETICALLY APPEALING, LOW HEAD HEIGHT BLENDS IN WITH PANEL
- HEAD CONCEALS SEALING WASHER
- WOBBLE FREE INSTALLATION
- #3 DRIVER INSTALLS ALL SIZES
- MATCHING LAP SCREW AVAILABLE



LOW PROFILE PANCAKE SD

- FOR ATTACHING CLIPS TO METAL SUBSTRATE
- TIGHTER FIT ON DRIVER BIT



1/4 X 7/8 FLAT TOP® LAP

- HIGHER HEX PROVIDES POSITIVE SOCKET ENGAGEMENT
- SPECIAL UNDERCUT ENTRAPS SEALING WASHER




*Your Roof. For Life!
On Time and Complete!™*

ASHLAND
OHIO

FLAT ROCK
NORTH CAROLINA

HOUSTON
TEXAS

SALEM
OREGON

PLEASE CONTACT US FOR ADDITIONAL PRODUCT DETAILS - INFO@ATLASFASSTENERS.COM - (800) 321-6977 - WWW.ATLASFASSTENERS.COM



PRODUCT WARRANTY

Union Corrugating Company (Seller) warrants to the original purchaser (Buyer or Customer) and to the original building Owner, its products as listed below, and subject to the limitations, terms, conditions and exclusions set forth herein:

Fabricated steel components are warranted only against failure due to defective material or workmanship for a period of one year effective from date of shipment.

WARRANTY DISCLAIMER

- I. This warranty is in lieu of all other warranties (save and except any written warranties issued by Seller and signed by an officer of Seller for a specific roof system), whether express, implied or statutory, and all other liabilities (contract, tort or otherwise, including negligence) and Seller makes no warranty of merchantability or of fitness for any particular purpose. This warranty will automatically terminate and become void upon the sale, transfer or conveyance (except to secure debt) of the products or building or property on which the products are erected.

In consideration of the sale of the products and this warranty, Seller shall not be responsible or liable for any consequential, incidental or special damages, expenses, loss to the building or loss of the use thereof, either in contract, negligence or tort, arising out of any failure of the products, breach of warranty or for other cause.

Seller does not make any warranty or assume any obligation with respect to the validity of any patents, designs, copyrights or trademarks which may cover such products. The conditioning of liability, rights, obligations and remedies of the parties relating to claims arising from defective products shall be governed exclusively by the terms hereof.

- II. A. This warranty is subject to the following conditions, terms, limitations and exclusions.
 - B. The information noted below must be completed and executed by original Purchaser (Buyer) and original building Owner within thirty (30) days of shipment of materials and the original of same maintained in original building Owner's possession.
 - C. This warranty is limited to the original Owner of the building and is specifically non-assignable or non-transferable.
 - D. Buyer shall exercise diligence in inspection of materials as received from Seller prior to utilization so as to mitigate expense involved in repairing, repainting, or replacing nonconforming products.
 1. This warranty applies only to the above-described products of Seller and does not cover accessories, fixtures, insulation, goods or materials not manufactured but sold by Seller. This warranty shall be valid and apply to Seller's products only if the products are erected and installed strictly in accordance with Seller's engineering plans and specifications, Seller's project specific erection details, Seller's standard erection instructions and details current at the time of product shipment to jobsite by Seller and all applicable erection standards and procedures regularly published by the metal building manufacturers association. Any modification of, deviation or variation from the specified materials, products or specified erection procedures without the prior written consent of an officer of Seller, will void this warranty.
 2. This warranty is applicable only to product damage or failure caused by "normal atmospheric exposure" which shall not be construed to include the following conditions which are specifically excluded from this warranty:
 - a. Deterioration caused by marine (salt water) atmospheres or by constant exposure to either salt or fresh water.
 - b. Corrosion caused by heavy fallout or exposure to corrosive chemicals, ash, or fumes from chemical plants, foundries, plating works, kilns, paper plants, fertilizers, animal waste, or any similar foreign chemical substances.
 - c. Deterioration caused by corrosive fumes or condensates of harmful substances generated or released inside the building.
 - d. Damage due to contact with green or wet lumber.
 - e. Damage caused by spray foam insulation.
 - f. If the products are erected in an area which is originally a "normal atmospheric exposure" but the environment subsequently changes to the one that is not a "normal" atmosphere (e.g., The construction of a chemical plant nearby) this warranty will then be void.
 3. This warranty is limited to products of Seller which are sold and erected within the continental United States of America, Alaska, Hawaii and Canada.
 4. This warranty shall not apply to any structural or panel failure attributable to engineering design caused by incorrect, inadequate, or erroneous design information transmitted to Seller, by or through the Owner, contractor or their respective design representative.

5. This warranty specifically excludes the following:
 - a. Damages caused by workers or other traffic on the roof.
 - b. Damages caused by act of god - including, but not limited to, lightning, strong gale, hurricane, tornado, earthquake, fire or flood.
 - c. Damages caused by any other cause beyond the control of Seller, including, but not limited to, the following examples:
 - i. If after erection, there are alterations, such as, but not limited to, structures, fixtures or utilities being placed upon or attached to the structure or overloading bridge cranes.
 - ii. If there is any failure by the Buyer to use reasonable care in maintenance.
 - iii. If Buyer fails to comply with every term and/or condition stated in this warranty.
 - iv. Foundation movement.
 - d. Damage to the primer paint coating on the primary or secondary framing members.
 - e. This warranty does not apply to perforated material.
6. Claims for any defects or breach of this warranty must be submitted by the Owner, or Owner's representative, by written notice within the warranty period and within thirty (30) days of the occurrence of a failure or breach of warranty so that Seller has reasonable opportunity to inspect the products. Owner will exercise reasonable diligence in inspection and maintenance of the products in order to mitigate expense involved in repairing, replacing or repainting the products.
7. Seller's responsibility and liability pursuant to this warranty is expressly limited to the replacement, repair or repainting of the defective materials and in no event will such liability exceed an amount equal to twenty (20) cents per square foot of building area, and any expense of labor, installation, or removal will not be included in this warranty.
8. This warranty will not be effective and binding on Seller until payment in full for the products have been received by Seller.
9. This warranty may not be modified, amended or supplemented except by written agreement signed by an authorized corporate officer of Seller.

Seller's Job Number _____ Building Location _____
(Street, City, State & Zip Code)

Customer _____ Customer Phone Number _____

Customer Address _____
(Street, City, State & Zip Code)

Customer Signature _____ Date _____

Original Owner _____

Owner's Address _____
(Street, City, State & Zip Code)

Owner's Signature _____ Date _____