

EST.  1986

Duffield

ROOFING & EXTERIORS

4566 NW 5th Blvd., Suite 1
Gainesville, FL 32609
Phone 352-375-7008
Fax 352-375-7014

Lic. #CCC1325785 & #SCC131149785

PROPOSAL SUBMITTED TO: Rusty Kallenbach Gloria Savino	PHONE: (352) 262-8386	DATE: 07/31/26
STREET: 203 NE 1st St	EMAIL: arkall4@yahoo.com	
CITY, STATE and ZIP CODE: Micanopy FL 32667	JOB ADDRESS: Same	

We hereby submit specifications and estimates for

Rib Panel Metal Non-Painted Roofing Panel with Exposed Fasteners 25 Year Manufacturer Warranty
Install 26 gauge galvalume over Rhino underlayment and existing roofing system
Installed with lifetime screws to code, 130 mph wind rated
Install deck tite plumbing boots, on ridge ventilation and ridge cap
Install new drip edge on lower eave area
Clean ground of all debris
Includes dump fees, permit and 5 year workmanship warranty
Additional plywood will be billed @ \$100 per sheet
Additional dimensional wood work will be billed @ \$6 per ft \$5,813.00

Option(s):

Tear off existing roofing system, reroof deck to code (3) sheets of plywood included if necessary \$650.00

1/3 down, 1/3 when materials arrive and balance upon completion

deposit \$2155

All materials are subject to manufacturer price increases. We cannot hold pricing beyond 30 days

Dollars (\$)

6413.00

All materials to be as described above and installed to specifications in a workman like manner in accordance to standard practices. Any alteration or deviation from above specifications involving costs will be executed only upon written orders, and will become an extra charge over and above the estimated price. Our workers are fully covered by Workman's Compensation insurance. Owner to carry fire, tornado and other necessary insurances. All agreements contingent upon strikes, accidents or delays beyond our control.

Authorized by:

Signature:

Blake York

Note: This proposal may be

withdrawn by us if not accepted within 30 days.

Florida Statute Section 404.056 "Radon Gas": Radon gas is a naturally occurring radioactive gas that, when it has accumulated in a building in sufficient quantities, may present health risks to persons who are exposed to it over time. Levels of radon that exceed Federal and State guidelines have been found in buildings in Florida. Additional information regarding radon and radon testing may be obtained from your county public health unit.

Florida Statute Section 489.1425 "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 Construction Industries Recovery Fund law by a State-Licensed Contractor. For information about the recovery fund and filing a claim, contact the Florida Construction Industry Licensing Board at the following telephone number and address: (800) 487-1395, 1940 North Monroe Street, Suite 33, Tallahassee, FL 32399-1039.

Florida Statute Chapter 538 "Chapter 538": Florida Statutes contains important requirements you must follow before you may bring any legal action for an alleged construction defect. Sixty days before you bring any legal action, you must deliver to the other party to this contract a written notice referring to Chapter 538 of any construction conditions you allege are defective and provide such person the opportunity to inspect the alleged construction defects and to consider making an offer to repair or pay for the alleged construction defects. You are not obligated to accept any offer which may be made. There are strict deadlines and procedures under this Florida Law which must be met and followed to protect your interests.

Acceptance of Proposal -- The prices, specifications and terms and conditions are satisfactory and are hereby accepted. You are authorized to do work as specified. Payment will be made as outlined

Date of Acceptance: 8-24-26

Signature:

Print Name:

Gloria Savino
Gloria Savino

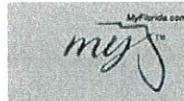
TERMS AND CONDITIONS

1. This contract is based solely on visual conditions present at the time of visit. If unforeseen conditions should arise that could not be determined by visual inspection or that are not outlined in the contract, then such additional work shall be performed on a firm bid basis or time plus material basis at the sole discretion of Duffield Roofing and Exteriors (customer to be notified in this event). Where more than one existing roof systems must be removed, additional charges will apply (unless otherwise noted in the contract).
2. Any woodwork that becomes necessary to complete the job will be billed in addition to the proposal price. Cost of additional woodwork (unless otherwise noted) will be based on the man hour labor rate specified on the front of this proposal, plus the cost of materials. Unless otherwise specified all woodwork will be installed unpainted.
3. Please notify Duffield Roofing and Exteriors, prior to commencement of work, if you have any exposed ceilings in your home that may be susceptible to protruding nails. This should include any porches, screened rooms, sunrooms, patios or Florida rooms that are included in the area to be re-roofed. Duffield Roofing and Exteriors assumes no liability for damage to these types of ceilings if we are unaware of their existence.
4. Though due care will be taken Duffield Roofing and Exteriors is not responsible for existing gutter or gutter guard installed by others should it have to be manipulated during construction.
5. All lead times are estimated based on the conditions at the time of deposit and are influenced by several factors. Our backlog, weather conditions, material availability, and other extenuating circumstances all have an impact on the amount of time it takes to begin a project. Duffield Roofing and Exteriors will start your project as soon as safely possible, but no claims are made as to how soon it will be.
6. In order to complete your project Duffield Roofing and Exteriors requires access to within a couple of feet of the entire structure where work is being performed. This includes but is not limited to the placement of dumpsters, trailers and generators. It is sometimes necessary to drive over lawns to obtain this access the project. Though due care will be taken to prevent damage, Duffield Roofing and Exteriors assumes no liability for damage to lawns, shrubs, sidewalks, sprinkler systems, driveways and any other buried systems. If there are other structures that may limit this access, such as fences, hedges, etc. please notify Duffield Roofing and Exteriors prior to commencement of work. It is also advised pets remain inside during the project as access to the backyard will be necessary.
7. Most projects require a dumpster to be located in the driveway, it is advised you remove anything from the garage prior to the beginning of your project, in the instance the dumpster must be moved after it is in place, the owner will be charged an additional fee. Duffield Roofing and Exteriors does not require the owner to be present during work (unless otherwise noted) and is not liable for any losses (wages, hardships, salary, vacation, boarding fees etc) as a result of the work being performed. Dumping by anyone outside of DHI is prohibited in the dumpster, it is the property owner's responsibility to make sure no debris other than DHI created debris are placed in the dumpster. Additional fees will be assessed for any unauthorized use of the dumpster.
8. Duffield Roofing and Exteriors may use pictures and videos of your project for marketing purposes, no owner personal information will be shared without approval of property owner.
9. The replacement of a roof is a very aggressive process. You can expect hammering, banging, and vibrations throughout your home until the job is completed. You may wish to take steps to secure certain items that could be damaged due to this type of activity. Though due care will be taken, Duffield Roofing and Exteriors assumes no liability for wall/ceiling damage, stress cracks, nail pops or breakage of items in and around your home due to the typical roofing process.
10. During the process of your project you can expect construction debris to be present (nails, wood, metal etc) Duffield Roofing and Exteriors cleans the site daily but shall not be liable for any injury or damage caused by construction debris. It is advised that everyone on the site take the necessary precautions to avoid injury or damage to a person's property during your project. This includes but is not limited to, wearing close-toed shoes, keeping vehicles parked clear of the site, monitoring children and pets around the area of work.
11. Duffield Roofing and Exteriors assumes no liability for damage to electrical, refrigerant, water, PVC or any other types of lines that may come into contact with the underside of the roof decking material.
12. Damage claims must be submitted to Duffield Roofing and Exteriors within ten (10) days from the date that your job was completed for review.
13. A 1.5% interest will be added monthly on all unpaid balances. All accounts which are 90 DAYS PAST DUE will be charged a rebilling fee of \$10 for each additional bill required by a failure to pay a debt of less than \$100 on time and \$25 for failure to pay a debt of \$100 or more, not to exceed one bill each 30 days. In the event of a lawsuit regarding payment the customer is required to pay all legal fees incurred.
14. When lead times become long there is the possibility that increases in the cost of materials may cause an increase in your proposed price after you have signed with our company. Duffield Roofing and Exteriors will do everything possible to maintain the stated proposal price for your roofing job. In the event of a price increase, you will be given the option to either accept the increase or cancel your contract.
15. 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 a claim, contact the Florida Construction Industry Licensing Board at the following address and phone number: 1940 N. Monroe Street, Tallahassee, FL 32399 (850) 487-1395



Initial: x

FLORIDA DEPARTMENT OF
Business & Professional Regulation



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Product Approval
USER: Public User

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FL #

FL15216-R13

Application Type

Revision

Code Version

2023

Application Status

Approved

Comments

Archived

Product Manufacturer

Owens Corning Roofing and Asphalt, LLC

Address/Phone/Email

One Owens Corning Parkway
Toledo, OH 43645
(740) 321-6345
Greg.Keeler@owenscorning.com

Authorized Signature

Keeler Greg
Greg.Keeler@owenscorning.com

Technical Representative

Greg Keeler

Address/Phone/Email

2790 Columbus Road
Granville, OH 43023
(740) 321-6345
greg.keeler@owenscorning.com

Quality Assurance Representative

Address/Phone/Email

Category

Roofing

Subcategory

Underlayments

Compliance Method

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name who developed the Evaluation Report

Robert Nieminen

Florida License

PE-59166

Quality Assurance Entity

Intertek Testing Services NA, Inc. - QA Entity

Quality Assurance Contract Expiration Date

12/31/2026

Validated By

John W. Knezevich, PE

Validation Checklist - Hardcopy Received

Certificate of Independence

[FL15216 R13 COI 2023 07 COI NIEMINEN.pdf](#)

Referenced Standard and Year (of Standard)

Standard

ASTM D8257

Year

2020

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted
Date Validated
Date Pending FBC Approval
Date Approved

10/23/2023
10/23/2023
10/30/2023
12/12/2023

Summary of Products

FL #	Model, Number or Name	Description
15216.1	RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments	Synthetic roof underlayments
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: Refer to PEER Section 5 for Limits of Use.		Installation Instructions FL15216 R13 II 2023 10 23 FINAL PEER-OC-003.A FL15216-R13.pdf Verified By: Robert Nieminen PE-59166 Created by Independent Third Party: Yes Evaluation Reports FL15216 R13 AE 2023 10 23 FINAL PEER-OC-003.A FL15216-R13.pdf Created by Independent Third Party: Yes

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Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

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Product Approval Accepts:



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Certificate of Authorization #32455
353 Christian Street, Unit #13
Oxford, CT 06478
(203) 262-9245

ENGINEER

EVALUATE

TEST

CONSULT

P.E. EVALUATION REPORT (PEER)

Owens Corning Roofing and Asphalt, LLC

One Owens Corning Parkway
Toledo, OH 43659
(740) 321-6345

PEER-OC-003.A.R14

FL15216-R13

Date of Issuance: 02/17/2012

Revision 14: 10/23/2023

SCOPE:

This P.E. Evaluation Report (henceforth 'PEER') is issued under **F.A.C. Rule 61G20-3** and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code. The products described herein have been evaluated for compliance with the **8th Edition (2023) Florida Building Code sections noted herein.**

DESCRIPTION: RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments

LABELING: Labeling shall be in accordance with the requirements of the Accredited Quality Assurance Agency noted herein and **FBC 1507.1.1** and **FBC HVHZ 1518.2.**

CONTINUED COMPLIANCE: This PEER is valid until such time as the named product(s) changes, the referenced Quality Assurance or production facility location(s) changes, or Code provisions that relate to the product(s) change. Acceptance of our PEERs by the named client constitutes agreement to notify NEMO ETC, LLC of any changes to the product(s), the Quality Assurance, or the production facility location(s). NEMO ETC, LLC requires a complete review of its PEER relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Florida Product Approval Number (FL#) preceded by the words "Nemo P.E. Evaluated" may be displayed in advertising literature. If any portion of the PEER is displayed, then it shall be done in its entirety.

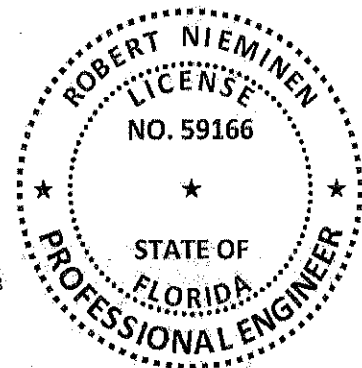
INSPECTION: Upon request, a copy of this entire PEER shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This PEER consists of pages 1 through 4.

Prepared by:

Digitally signed by
Robert Nieminen
Date: 2023.10.23
'13:53:23 -04'00

This item has been digitally signed and sealed by Robert Nieminen, P.E.
Printed copies of this document are not considered signed and sealed, and the signature must be verified on any electronic copies.
Robert Nieminen, Florida P.E. 59166, FBC ANE1983
NEMO ETC, LLC, Florida CA #32455



CERTIFICATION OF INDEPENDENCE:

1. NEMO ETC, LLC does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. NEMO ETC, LLC is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products for which the PEERs are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.
5. This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance unless retained specifically for that purpose.

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ROOFING COMPONENT EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Underlayment
Product Approval Method: Method 1, Option D – Codified Material, Evaluation by Engineer
Compliance Statement: RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments, as produced by Owens Corning Roofing and Asphalt, LLC, have demonstrated compliance with the following sections of the 8th Edition (2023) Florida Building Code through testing in accordance with applicable sections of the following Standards. Compliance is subject to the Installation Requirements and Limitations of Use set forth herein.

2. STANDARDS:

SECTION	PROPERTIES	STANDARD
1507.1.1, R905.1.1, 1518.2	Material standard	ASTM D8257

3. REFERENCES:

ENTITY	EXAMINATION	REFERENCE	DATE
PRI (TST5878)	ASTM D8257-20	1378T0138	02/25/2021
PRI (TST5878)	ASTM D8257-20	1378T0139	03/23/2021
PRI (TST5878)	ASTM D8257-20	1378T0141	05/18/2021
PRI (TST5878)	ASTM D8257-20	1378T0273	10/25/2022
ITS (QUA1673)	ITS Audit Manual	3144566COQ-006A	09/10/2020
ITS (QUA1673)	Quality Control	Service Confirmation	08/13/2021
ITS (QUA1673)	Quality Control	Florida BCIS	Current

4. PRODUCT DESCRIPTION:

TABLE 1: EVALUATED UNDERLAYMENTS			
PRODUCT	SPECIFICATION	PLANT(S)	DESCRIPTION
RhinoRoof U10	ASTM D8257 ¹	Qingdao, China Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
RhinoRoof U20	ASTM D8257 ¹	Qingdao, China Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
ABC Pro Guard 20	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment
SRS TopShield TS20	ASTM D8257 ¹	Silvassa, India	Multilayered polymer woven coated synthetic roof underlayment

5. LIMITATIONS:

- 5.1 This is a building code evaluation. Neither NEMO ETC, LLC nor Robert Nieminen, P.E. are, in any way, the Designer of Record for any project on which this PEER, or previous versions thereof, is/was used for permitting or design guidance. PEERs are not to be construed as representing any attributes not specifically listed, nor are PEERs to be construed as an endorsement of the subject, or a recommendation for its use. There is no warranty by NEMO ETC, LLC or Robert Nieminen, P.E., express or implied, as to any finding or other matter in this PEER, or as to any product covered by the PEER.
- 5.2 This PEER pertains to above-deck roof components. Roof decks and structural members shall be in accordance with FBC requirements to the satisfaction of the Authority Having Jurisdiction.
- 5.3 This PEER does not include evaluation of fire classification. Refer to **FBC 1505** or **FBC HVHZ 1516** for requirements and limitations regarding roof assembly fire classification. Refer to **FBC 2603** for requirements and limitations concerning the use of foam plastic insulation.



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- 5.4 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** may be used with any prepared roof cover where the product is specifically referenced within FBC approval documents. If not listed, a request may be made to the Authority Having Jurisdiction for approval based on this evaluation combined with supporting data for the prepared roof covering.

5.5 **Allowable roof covers:**

TABLE 2: ROOF COVER OPTIONS					
FBC NON-HVHZ:	1507.2	1507.3	1507.4 & 1507.5	1507.7	1507.8 & 1507.9
FBC HVHZ:	RAS 115, 1518.2.1	RAS 118, 119 & 120	RAS 133, 1518.2.1	1518.2.1	RAS 130, 1518.10
UNDERLAYMENT	ASPHALT SHINGLES	ROOF TILE	METAL	SLATE OR SLATE-TYPE SHINGLES	WOOD
RhinoRoof U10	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
RhinoRoof U20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
ABC Pro Guard 20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes
SRS TopShield TS20	Yes	No	Yes	No	NON-HVHZ: No HVHZ: Yes

5.6 **Exposure Limitations:**

TABLE 3: EXPOSURE LIMITATIONS	
UNDERLAYMENT	MAXIMUM EXPOSURE (DAYS)
RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 or SRS TopShield TS20	90

6. INSTALLATION:

- 6.1 **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments** shall be installed in accordance with the manufacturer's published installation instructions subject to the Limitations of Use herein and the specifics noted below.
- 6.2 Re-fasten any loose decking panels, and check for protruding nail heads. Sweep the substrate thoroughly to remove any dust and debris prior to application.

6.3 RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20 Roof Underlayments:

6.3.1 NON-HVHZ JURISDICTIONS:

Shall be installed in compliance with requirements for a synthetic underlayment (ASTM D8257) in **FBC 1507.1.1.1** or **FBC Residential R905.1.1.1** for the type of prepared roof covering to be installed, and the manufacturer's installation instructions. FBC requirements take precedence over the manufacturer's installation instructions. FBC requirements take precedence over the manufacturer's installation instructions.



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6.3.2

HVHZ JURISDICTIONS:

6.3.2.1

DECK TYPE 1: Wood, Non-Insulated

DECK DESCRIPTION: Min. 19/32-inch plywood or wood plank

SYSTEM TYPE E-1: Underlayment mechanically fastened to deck

UNDERLAYMENT: Two (2) layers of **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20** in accordance with FBC HVHZ 1518.2.1(3).

FASTENING: Grid pattern of 12-inches between the overlaps, with 6-inch spacing at the overlaps, in accordance with FBC HVHZ 1518.2.1(3).

SURFACING: FBC HVHZ Approved asphalt shingles, metal roof panels or metal shingles, slate or slate type shingles.

6.3.2.2

DECK TYPE 1: Wood, Non-Insulated

DECK DESCRIPTION: Min. 19/32-inch plywood

SYSTEM TYPE E-1: Self-adhering strips to plywood joints; underlayment mechanically fastened to deck

SECONDARY WATER BARRIER: Min. 3/4-inch wide strips of FBC HVHZ Approved self-adhering underlayment over joints of the plywood roof deck prior to installation of subsequent layer(s) in accordance with FBC HVHZ 1518.2.1(2). Do not overlap end-joints or T-joints. All end-joints and T-joints shall be butted firmly side by side, flush with each other but not overlapped.

UNDERLAYMENT: **RhinoRoof U10, RhinoRoof U20, ABC Pro Guard 20 and SRS TopShield TS20** in accordance with FBC HVHZ Table 1518.2.1.

FASTENING: Grid pattern of 12-inches between the overlaps, with 6-inch spacing at the overlaps, in accordance with FBC HVHZ Table 1518.2.1.

SURFACING: FBC HVHZ Approved metal shingles, slate, slate type shingles, wood shingles or wood shakes.

7.

BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction to properly evaluate the installation of this product.

8.

MANUFACTURING PLANTS:

Contact the named QA entity for manufacturing facilities covered by F.A.C. Rule 61G20-3 QA requirements. Refer to Section 4 herein for products and production locations having met codified material standards.

9.

QUALITY ASSURANCE ENTITY:

Intertek Testing Services NA Inc. – QUA1673; (312) 906-7779; maura.norlander@intertek.com

- END OF PEER -

¹ Agreement between purchaser and seller, as set forth in Section 4.3, Note 1 of ASTM D8257-20, should be established as to slip resistance.



Product Approval
USER: Public User

[Product Approval Menu](#) > [Product or Application Search](#) > [Application List](#) > **Application Detail**

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FL #	FL36904-R11
Application Type	Revision
Code Version	2023
Application Status	Approved
Comments	
Archived	
Product Manufacturer	Tri County Metals
Address/Phone/Email	301 SE 16th Street Trenton, FL 32693 (352) 463-8400 testing@tricountymetals.com
Authorized Signature	Jason Klinkenberg testing@tricountymetals.com
Technical Representative	
Address/Phone/Email	
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Metal Roofing
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Zachary R. Priest
Florida License	PE-74021
Quality Assurance Entity	PRI Construction Materials Technologies, LLC
Quality Assurance Contract Expiration Date	12/31/2027
Validated By	Steven M. Urich, PE Validation Checklist - Hardcopy Received
Certificate of Independence	FL36904_R11_COI_CoI_CREEK Technical Services_2023.pdf

Referenced Standard and Year (of Standard)

<u>Standard</u>	<u>Year</u>
ASTM B 117	2016
ASTM C 794	2001
ASTM E 1592	2005
ASTM G 155	2013
FM 4471	1992
TAS 100	2023
TAS 110	2000
TAS 125	2003
UL 1897	2015
UL 580	2006

Equivalence of Product Standards
Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted 06/24/2024
Date Validated 06/24/2024
Date Pending FBC Approval 06/27/2024
Date Approved 08/13/2024
Date Revised 12/15/2025

Summary of Products

FL #	Model, Number or Name	Description
36904.1	PBR and Ultra Rib	Non-structural metal roofing panels installed over open framing (non-HVHZ)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: N/A Other: See evaluation report for limits of use.		Installation Instructions FL36904 R11 II TCM20001.11c 2023 FBC Eval Open Framing non-HVHZ final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL36904 R11 AE TCM20001.11c 2023 FBC Eval Open Framing non-HVHZ final.pdf Created by Independent Third Party: Yes
36904.2	TCM-LOK, SL-LOK, SS-LOK, MS-LOK, 5V, PBR and Ultra Rib	Non-structural metal roofing panels installed over solid sheathing (non-HVHZ)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: N/A Design Pressure: +0/-176 Other: See evaluation report for limits of use.		Installation Instructions FL36904 R11 II TCM20001.11a 2023 FBC Eval Metal Roofing non-HVHZ final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL36904 R11 AE TCM20001.11a 2023 FBC Eval Metal Roofing non-HVHZ final.pdf Created by Independent Third Party: Yes
36904.3	TCM-LOK, SL-LOK, SS-LOK, MS-LOK, 5V, PBR and Ultra Rib	Non-structural metal roofing panels installed over solid sheathing (HVHZ)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: No Impact Resistant: N/A Design Pressure: +0/-176 Other: See evaluation report for limits of use.		Installation Instructions FL36904 R11 II TCM20001.11b 2023 FBC Eval Metal Roofing HVHZ final.pdf Verified By: Zachary R. Priest PE-74021 Created by Independent Third Party: Yes Evaluation Reports FL36904 R11 AE TCM20001.11b 2023 FBC Eval Metal Roofing HVHZ final.pdf Created by Independent Third Party: Yes

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Contact Us :: 2601 Blair Stone Road, Tallahassee FL 32399 Phone: 850-487-1824

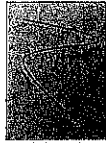
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Product Approval Accepts:







CREEK

TECHNICAL SERVICES, LLC

Registry No. 29824
(813) 480-3421

EVALUATION REPORT

FLORIDA BUILDING CODE, 8TH EDITION (2023)

Manufacturer: TRI COUNTY METALS
301 SE 16th Street
Trenton, FL 32693
(877) 766-3309
www.tricountymetals.com

Issued December 15, 2025

Manufacturing Locations: Trenton, FL

Quality Assurance: PRI Construction Materials Technologies (QUA9110)

SCOPE

Category: Roofing
Subcategory: Metal Roofing
Code Edition: Florida Building Code, 8th Edition (2023)
Code Sections: 1504.3, 1504.3.2
Properties: Wind Resistance

REFERENCES

Entity	Report No.	Standard	Year
Force Engineering & Testing, Inc. (TST5328)	136-0027T-12A,B	TAS 125	2003
		UL 580	2006
		UL 1897	2015
Force Engineering & Testing, Inc. (TST5328)	136-0027T-12C	FM 4471	1992
Force Engineering & Testing, Inc. (TST5328)	136-0044T-14A,B	TAS 125	2003
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Force Engineering & Testing, Inc. (TST5328)	136-0084T-14A,B	TAS 125	2003
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Force Engineering & Testing, Inc. (TST5328)	136-0087T-13	TAS 125	2003
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Force Engineering & Testing, Inc. (TST5328)	136-0099T-14A,B	TAS 125	2003
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		UL 1897	2015
Force Engineering & Testing, Inc. (TST5328)	136-0299T-13	TAS 125	2003
		UL 580	2006
		UL 1897	2015



CREEK

TECHNICAL SERVICES, LLC

TRI COUNTY METALS Metal Roofing (non-HVHZ)

Entity	Report No.	Standard	Year
Force Engineering & Testing, Inc. (TST5328)	136-0408T-09A,B	TAS 125	2003
		UL 580	2006
		UL 1897	2015
Force Engineering & Testing, Inc. (TST5328)	136-0408T-09C	FM 4471	1992
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PRI Construction Materials Technologies (TST5878)	945T0004	ASTM G 155	2013
PRI Construction Materials Technologies (TST5878)	1272T0002	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0003	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0005	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1272T0006	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0001	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0002	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0003	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0004	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0009	FM 4471	1992
PRI Construction Materials Technologies (TST5878)	1930T0010	ASTM B 117	2016
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0011	ASTM G 155	2013
		TAS 110	2000
PRI Construction Materials Technologies (TST5878)	1930T0013	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0015	UL 580	2006
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PRI Construction Materials Technologies (TST5878)	1930T0016	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0017	ASTM E 1592	2005(2017)
PRI Construction Materials Technologies (TST5878)	1930T0018	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0019	UL 580	2006
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PRI Construction Materials Technologies (TST5878)	1930T0020	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0026	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0027	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0028	ASTM C 794	2001
PRI Construction Materials Technologies (TST5878)	1930T0029	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0031	TAS 125	2003
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PRI Construction Materials Technologies (TST5878)	1930T0032	TAS 125	2003
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		UL 1897	2015



CREEK

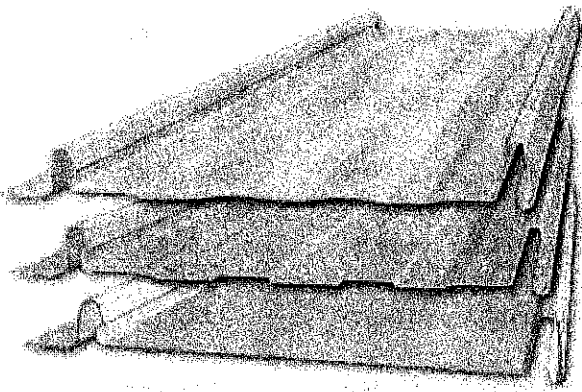
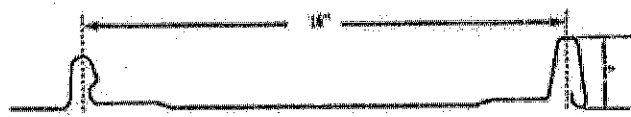
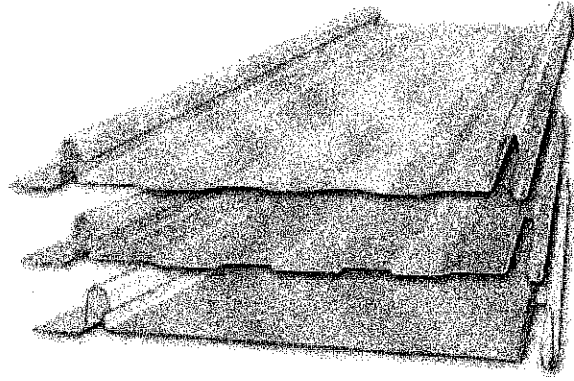
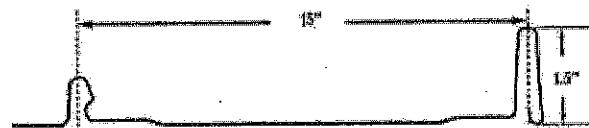
TECHNICAL SERVICES, LLC

TRI COUNTY METALS
Metal Roofing (non-HVHZ)

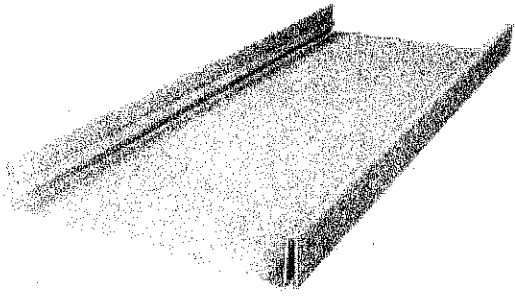
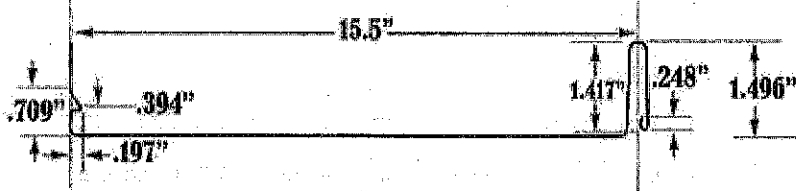
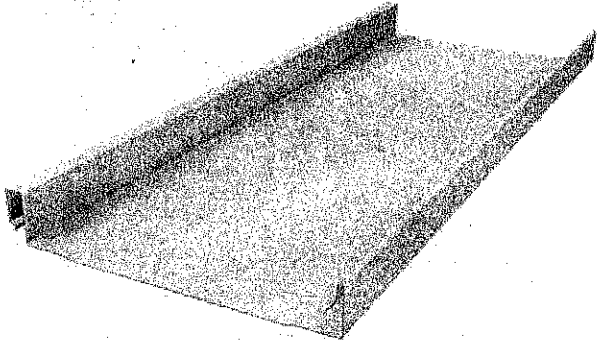
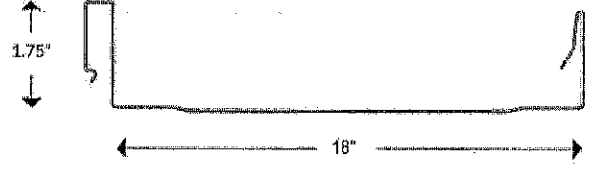
<u>Entity</u>	<u>Report No.</u>	<u>Standard</u>	<u>Year</u>
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		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0035	UL 580	2006
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PRI Construction Materials Technologies (TST5878)	1930T0036.1	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0037.1	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0038	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0039.2	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0040	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0042	FM 4471	1992
PRI Construction Materials Technologies (TST5878)	1930T0045	UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0046	TAS 125	2003
		UL 580	2006
		UL 1897	2015
PRI Construction Materials Technologies (TST5878)	1930T0048	UL 580	2006
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PRI Construction Materials Technologies (TST5878)	1930T0055	UL 580	2006
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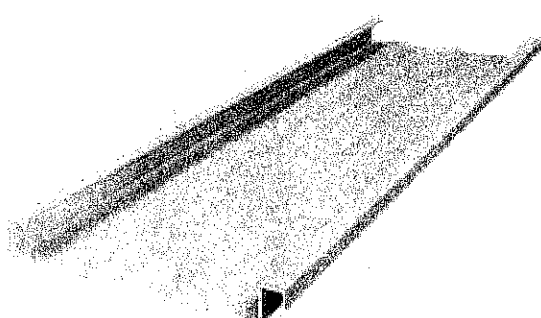
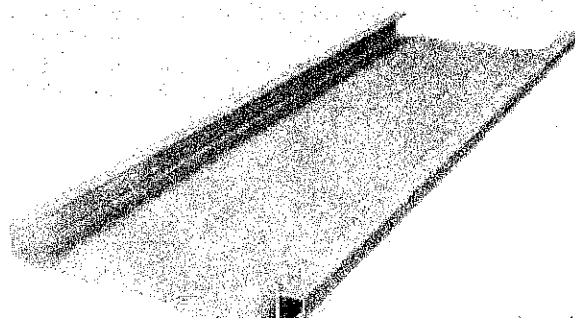
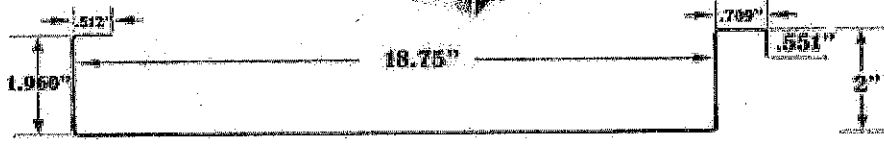


PRODUCT DESCRIPTION

TCM-LOK 1 in.	Profile:	1 in. snap lock seam; Max. 16 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 26 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032in. (F_y = min. 25 ksi) ASTM B209, 3105 H22 aluminum coated with Fluropon®; Shall conform with FBC Section 1507.4.3
	 	
TCM-LOK 1.5 in.	Profile:	1.5 in. snap lock seam; Max. 15 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel with 7/8 in. slotted nail strip
	Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
	 	

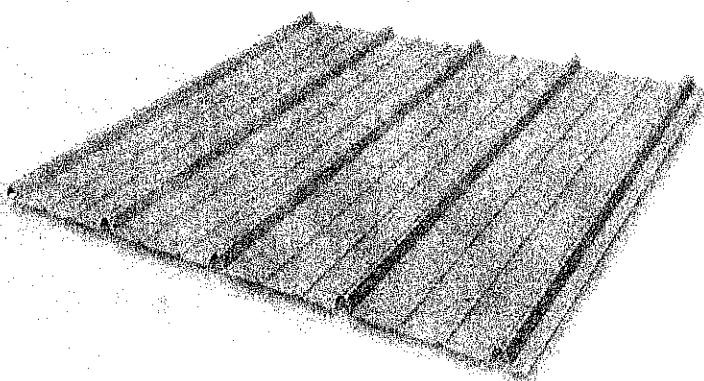


1.5 SL-LOK	Profile:	1.5 in. snap lock seam; Max. 15.5 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel
	Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluoropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032 in. (F_y = min. 25 ksi) ASTM B209, 3105 H24 aluminum coated with Fluoropon®; Shall conform with FBC Section 1507.4.3
	 	
1.75 SS-LOK	Profile:	1.75 in. snap lock standing seam; Max. 18 in. coverage
	Description:	Non-structural, snap lock standing seam roof panel
	Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluoropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.040 in. (F_y = min. 25 ksi) ASTM B209, 3104 H22 aluminum coated with Fluoropon®; Shall conform with FBC Section 1507.4.3
	 	

1.5 MS-LOK	<table border="1"> <tr> <td>Profile:</td><td>1.5 in. mechanical seam; Max. 16 in. coverage</td></tr> <tr> <td>Description:</td><td>Non-structural, standing seam roof panel; 180° double lock mechanical seam</td></tr> <tr> <td>Material:</td><td>Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3</td></tr> </table>  	Profile:	1.5 in. mechanical seam; Max. 16 in. coverage	Description:	Non-structural, standing seam roof panel; 180° double lock mechanical seam	Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
Profile:	1.5 in. mechanical seam; Max. 16 in. coverage						
Description:	Non-structural, standing seam roof panel; 180° double lock mechanical seam						
Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3						
2 MS-LOK	<table border="1"> <tr> <td>Profile:</td><td>2 in. mechanical seam; Max. 18.75 in. coverage</td></tr> <tr> <td>Description:</td><td>Non-structural, standing seam roof panel; 180° double lock mechanical seam</td></tr> <tr> <td>Material:</td><td>Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3</td></tr> </table>  	Profile:	2 in. mechanical seam; Max. 18.75 in. coverage	Description:	Non-structural, standing seam roof panel; 180° double lock mechanical seam	Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
Profile:	2 in. mechanical seam; Max. 18.75 in. coverage						
Description:	Non-structural, standing seam roof panel; 180° double lock mechanical seam						
Material:	Min. 24 ga. (F_y = min. 50 ksi) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3						

5V	<table border="1"> <tr> <td>Profile:</td><td>3/8 in. ribs at 12 in. o.c.; 24 in. coverage</td></tr> <tr> <td>Description:</td><td>Non-structural, through fastened roof panel</td></tr> <tr> <td>Material:</td><td>Min. 26 ga. ($F_y = \text{min. } 50 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032 in. ($F_y = \text{min. } 27 \text{ ksi}$) ASTM B209, 3105 H22 aluminum coated with Fluropon®; Shall conform with FBC Section 1507.4.3</td></tr> </table>	Profile:	3/8 in. ribs at 12 in. o.c.; 24 in. coverage	Description:	Non-structural, through fastened roof panel	Material:	Min. 26 ga. ($F_y = \text{min. } 50 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032 in. ($F_y = \text{min. } 27 \text{ ksi}$) ASTM B209, 3105 H22 aluminum coated with Fluropon®; Shall conform with FBC Section 1507.4.3
Profile:	3/8 in. ribs at 12 in. o.c.; 24 in. coverage						
Description:	Non-structural, through fastened roof panel						
Material:	Min. 26 ga. ($F_y = \text{min. } 50 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; or Min. 0.032 in. ($F_y = \text{min. } 27 \text{ ksi}$) ASTM B209, 3105 H22 aluminum coated with Fluropon®; Shall conform with FBC Section 1507.4.3						
PBR	<table border="1"> <tr> <td>Profile:</td><td>1-1/4 in. ribs at 12 in. o.c.; 36 in. coverage</td></tr> <tr> <td>Description:</td><td>Non-structural, through fastened roof panel</td></tr> <tr> <td>Material:</td><td>Min. 26 ga. ($F_y = \text{min. } 80 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3</td></tr> </table>	Profile:	1-1/4 in. ribs at 12 in. o.c.; 36 in. coverage	Description:	Non-structural, through fastened roof panel	Material:	Min. 26 ga. ($F_y = \text{min. } 80 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
Profile:	1-1/4 in. ribs at 12 in. o.c.; 36 in. coverage						
Description:	Non-structural, through fastened roof panel						
Material:	Min. 26 ga. ($F_y = \text{min. } 80 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3						



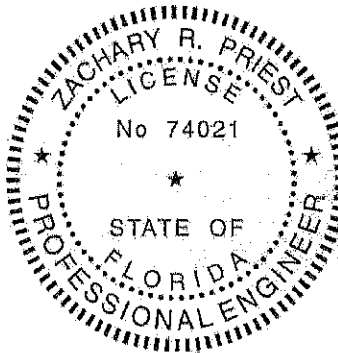
Ultra Rib	Profile:	3/4 in. ribs at 9 in. o.c.; 36 in. coverage
	Description:	Non-structural, through fastened roof panel
	Material:	Min. 29 ga. ($F_y = \text{min. } 80 \text{ ksi}$) or Min. 26 ga. ($F_y = \text{min. } 50 \text{ ksi}$) ASTM A653 G90, ASTM A792 AZ50 steel coated with Fluropon® or WeatherXL or ASTM A792 AZ55 steel; Shall conform with FBC Section 1507.4.3
 		

LIMITATIONS

1. This report is not for use in the HVHZ.
2. Fire classification is not within the scope of this evaluation.
3. The roof deck, wood battens and their attachment shall be designed by others to meet the minimum design loads established for components and cladding and in accordance with FBC requirements.
4. Roof slope shall be in accordance with FBC Section 1507.4.2
5. Reroofing shall be in accordance with Section 1511.
6. Installation of the evaluated products shall comply with this report, the FBC, and the manufacturer's published application instructions. Where discrepancies exist between these sources, the more restrictive and FBC compliant installation detail shall prevail.
7. All products listed in this report shall be manufactured under a quality assurance program in compliance with Rule 61G20-3.

COMPLIANCE STATEMENT

This report has been prepared in accordance with F.A.C. Rule 61G20-3.



This item has been
digitally signed and
sealed by Zachary R.
Priest, PE, on 12/15/2025.

Printed copies of this
document are not
considered signed and
sealed and the signature
must be verified on any
electronic copies.

Zachary R. Priest
Digitally signed by Zachary R. Priest
PROFESSIONAL ENGINEER

2025.12.15
09:52:12
-05'00'

Zachary R. Priest, P.E.
Florida Registration No. 74021
Organization No. ANE9641

CERTIFICATION OF INDEPENDENCE

CREEK Technical Services, LLC does not have, nor will it acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

CREEK Technical Services, LLC is not owned, operated, or controlled by any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any company manufacturing or distributing products under this evaluation.

Zachary R. Priest, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

APPENDICES

- 1) APPENDIX A – Installation (5 pages)
- 2) APPENDIX B – Approved Roof Systems (11 pages)
- 3) APPENDIX C – Design Wind Loads (4 pages)

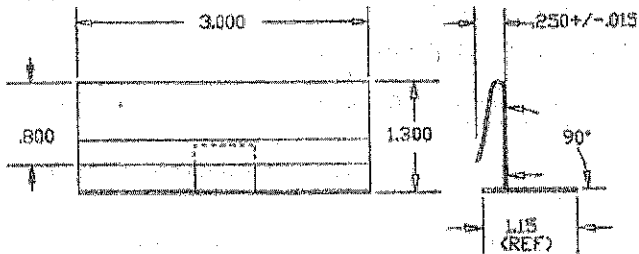
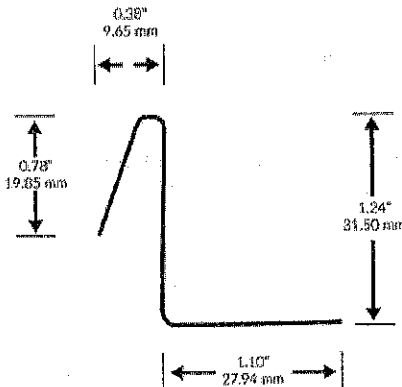


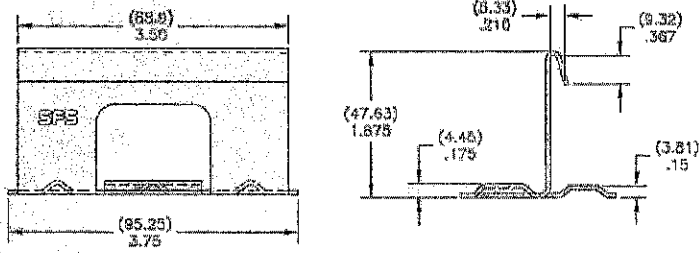
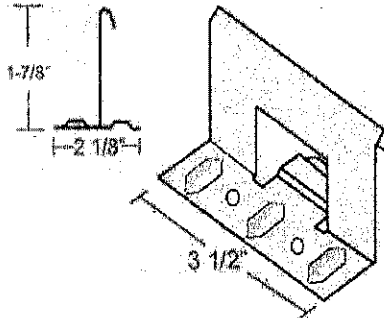
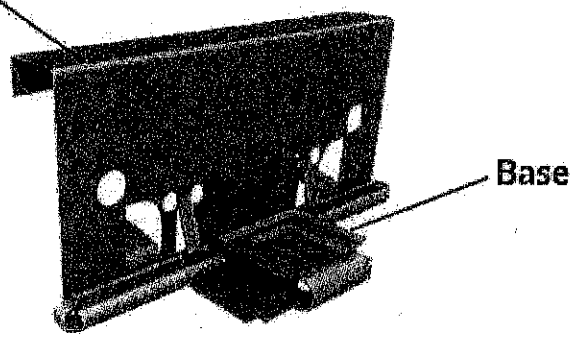
APPENDIX A

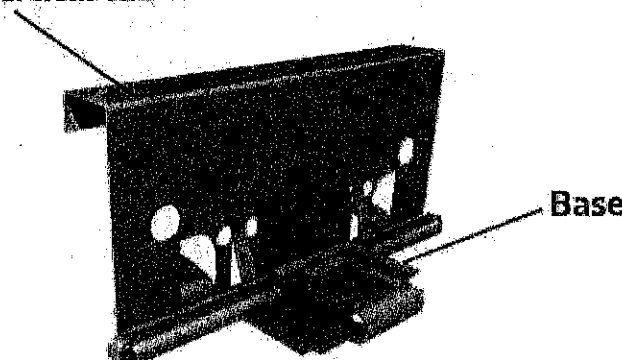
INSTALLATION

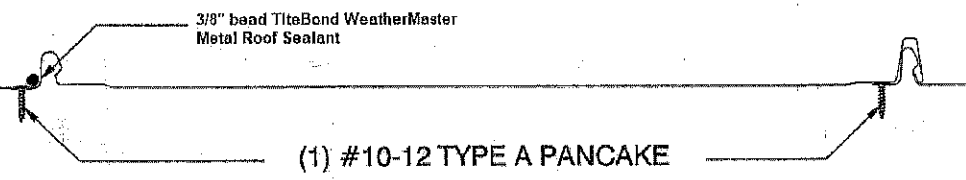
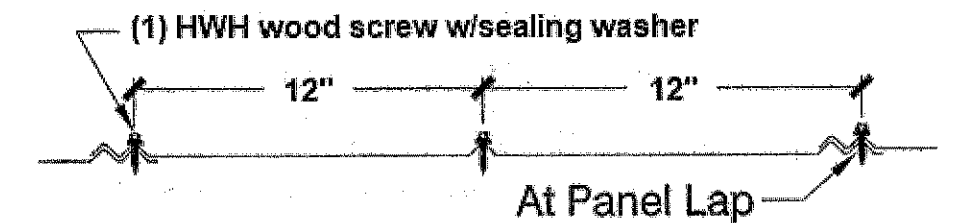
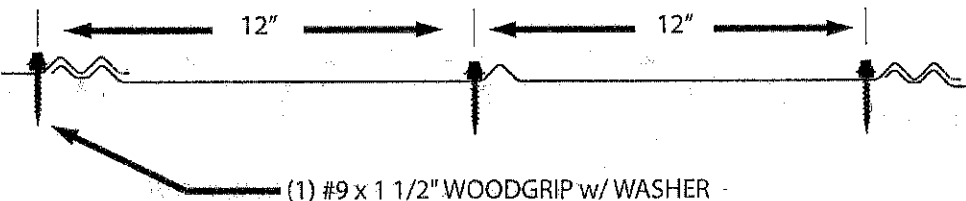
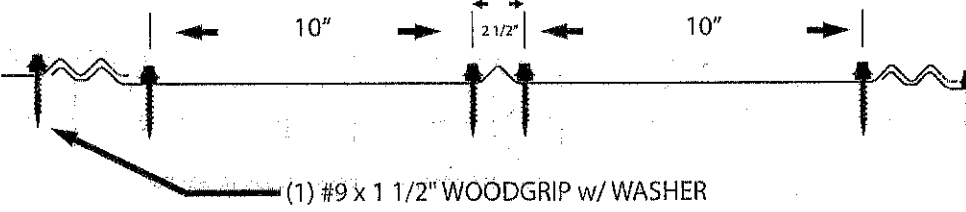
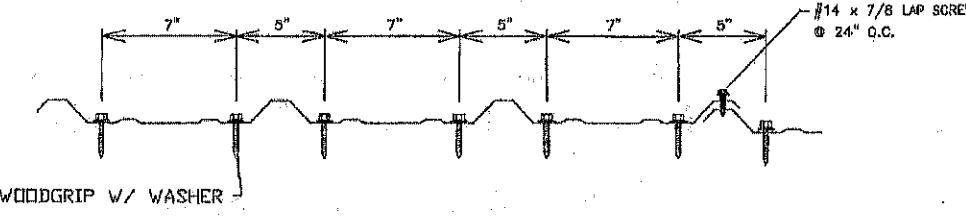
Note - Refer to the **APPROVED ROOF SYSTEMS** section of this report for specific installation details of a selected system.

Unless otherwise specified in this report the following installation details shall be met for the named products:

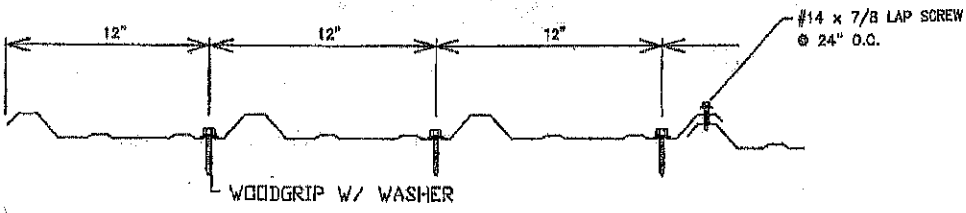
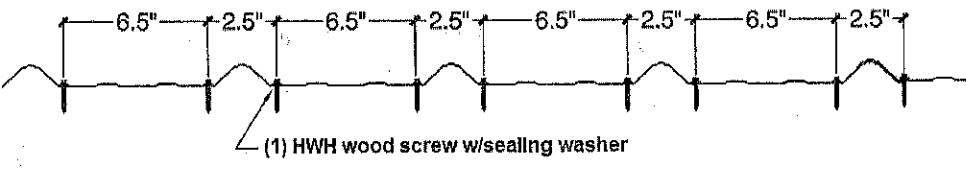
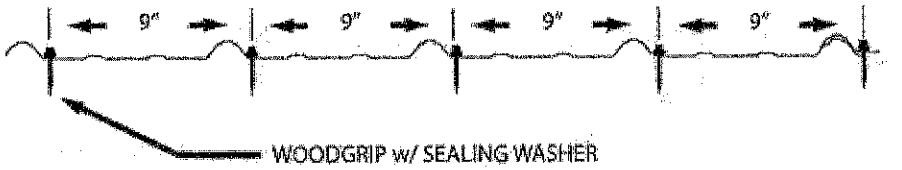
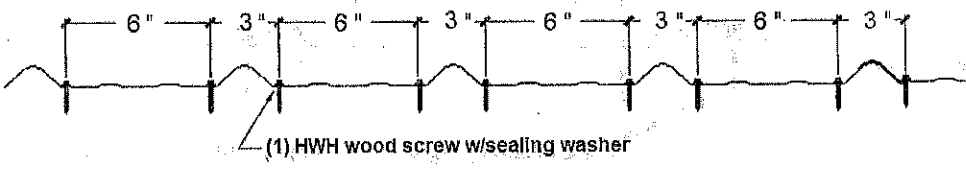
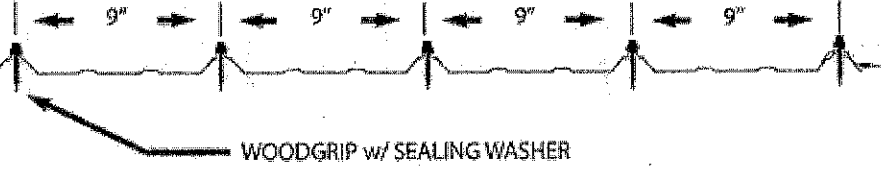
Component	Product	Installation Detail
Fasteners	#10-12 Pancake Type A screw	Shall penetrate through the sheathing a minimum 3/8 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.
	#10-9 PanclipSS MTW low profile head wood screw	
	#10-9 Panclip MTW low profile head wood screw	
	#9-15 Woodgrip HWH wood screw with sealing washer	
	#9-15 Evergrip HWH wood screw with sealing washer	
	#12-8 XG, Pancake head wood screw	
	#12-8 Woodgrip XG HWH wood screw with sealing washer	Shall penetrate through the top rib of the steel deck a minimum 3/4 in. Shall be corrosion resistant in accordance with FBC section 1507.4.4.
	#14-13 PANCLIP SD-L low profile head self-drilling screw	
Bearing Plate	Universal Bearing Plate	4" x 5", 20ga. galvanized steel bearing plate from Direct Metals, Inc.
Clips	1.5 in. DM SL Clip	24 ga. Direct Metals Inc Snaplock HD 450HD Clip, 1-1/4" - 1-1/2" Utility Snaplock Clip, 1.3 in. tall with 3 in. base 
	1.5 in. SL Continuous Clip	24 ga. ASTM A792 AZ55 or 0.032" ASTM B209, 3105 H24 Al; 1.24 in. tall with 1.1 in. base, Min. 10 ft. length 

Component	Product	Installation Detail
Clips – Cont'd	1.75 in. SFS SL Clip	18 ga. SFS 1-3/4 in. Snap Lock Clip; 1.875 in. tall with 3.75 in. base  Top view dimensions: (88.9) 3.50, (95.25) 3.75. Side view dimensions: (5.33) .210, (9.32) .367, (47.63) 1.875, (4.45) .175, (3.81) .15.
	1.75 in. DM SL Clip	18 ga. Direct Metals Inc 1-3/4 in. Snap Lock Clip; 1-7/8 in. tall with 3-1/2 in. base  Side view dimensions: 1-7/8", 2 1/8". Perspective view dimension: 3 1/2".
	1.5 in. ML Clip	1-1/2 in. 1-piece expansion clip; 22 ga. vertical tab; 16 ga. base; 4.5 in. long Vertical Tab  Base

Component	Product	Installation Detail
Clips – Cont'd	2 in. ML Clip	2 in. 1-piece expansion clip; 22 ga. vertical tab; 16 ga. base; 4.5 in. long Vertical Tab  Base
	TiteBond Weathermaster Metal Roof Sealant Geocel 2300 Novaflex Metal Roof Sealant	Shall be applied in 1/4 in.- 5/16 in. continuous beads on the male rib along the seam

Nomenclature	Fastening Details Attachment
TCM-LOK	 3/8" bead TiteBond WeatherMaster Metal Roof Sealant (1) #10-12 TYPE A PANCAKE
5V Type 1	 (1) HWH wood screw w/sealing washer 12" 12" At Panel Lap
5V Type 2	 12" 12" (1) #9 x 1 1/2" WOODGRIP w/WASHER
5V Type 3	 10" 2 1/2" 10" (1) #9 x 1 1/2" WOODGRIP w/WASHER
PBR Type 1	 7" 5" 7" 5" 7" 5" WOODGRIP w/ WASHER #14 x 7/8" LAP SCREW @ 24" O.C.



Fastening Details	
Nomenclature	Attachment
PBR Type 2	
Ultra Rib 1	
Ultra Rib 2	
Ultra Rib 3	
Ultra Rib 4	



APPROVED ROOF SYSTEMS

The following notes shall be observed when using the assembly tables below.

1. Maximum Design Pressure (MDP) was calculated using a 2:1 margin of safety per FBC Section 1504.9.
2. Refer to LIMITATIONS and sections of this evaluation when using the table(s) below.
3. Refer to INSTALLATION section of this report for installation detail when the information is not explicitly stated for the selected assembly.
4. The on-center (o.c.) spacing given is the maximum allowable attachment spacing for the rated system.
5. Unless otherwise specified, Steel Deck shall be designed by others in accordance with FBC requirements and shall be minimum 22 ga. Wide Rib Deck (Type WR) conforming to ANSI/SDI-RD1.0 & FBC and shall be attached to structural supports spaced maximum 5ft o.c. Panel seams shall be installed perpendicular to the steel deck ribs.
6. Wood Deck shall be designed by others in accordance with FBC requirements. 15/32 CDX plywood shall be minimum 15/32-inch thick, PS 1-19 Grade C-D, Exposure 1, APA Span-Rated plywood sheathing at maximum 24-inch span. 7/16 Oriented Strand Board (OSB) sheathing shall be minimum 7/16-inch thick, PS 2-18, APA Span-Rated, Exposure 1, OSB sheathing at maximum 24-inch span.
7. No. 2 SYP wood battens used over solidly sheathed decks shall be installed parallel to the eave and 90 degrees to the roof trusses/rafters. Wood battens shall be located under each fastener row.
8. Panel fasteners shall be installed through the battens and into the roof deck. Battens shall be secured in place with one (1) min. 0.113 in. x 2-3/8 in. ring shank nail installed max. 12 in. o.c. into the plywood deck.
9. No. 2 SYP wood battens shall be secured in place with one (1) min. 8d x 2-3/8 in. ring shank nail installed max. 4 in. o.c. into the plywood deck or two (2) min. #9 x 3 in. deck screws spaced max. 24 in. o.c. installed through the plywood deck and into the rafters/trusses.
10. No. 2 SYP wood battens shall be secured in place with one (1) min. 8d x 2-1/2 in. ring shank nail installed max. 4 in. o.c. into the plywood deck.
11. No. 2 SYP wood battens shall be secured in place with two (2) min. #9 x 3 in. deck screws spaced max. 24 in. o.c. installed through the plywood deck and into the rafters/trusses.

Roof System Numbers and Definitions	
L1-ALW-#	Min. 0.032 Al TCM-LOK 1 in. over Wood Deck (New or Existing)
L1-S-W-#	Min. 26ga. steel TCM-LOK 1 in. over Wood Deck (New or Existing)
L1.5-S-W-#	Min. 24ga. steel TCM-LOK 1.5 in. over Wood Deck (New or Existing)
SL-ALW-#	Min. 0.032 Al 1.5 SL-LOK over Wood Deck (New or Existing)
SL-S-W-#	Min. 24ga. steel 1.5 SL-LOK over Wood Deck (New or Existing)
SS-ALW-#	Min. 0.040 Al 1.75 SS-LOK over Wood Deck (New or Existing)
SS-S-W-#	Min. 24ga. steel 1.75 SS-LOK over Wood Deck (New or Existing)
SS-S-S-#	Min. 24ga. steel 1.75 SS-LOK over Steel Deck (New or Existing)
1.5MS-W-#	Min. 24ga. steel 1.5 MS-LOK over Wood Deck (New or Existing)
2MS-W-#	Min. 24ga. steel 2 MS-LOK over Wood Deck (New or Existing)
2MS-S-#	Min. 24ga. steel 2 MS-LOK over Steel Deck (New or Existing)
5V-ALW-#	Min. 0.032 Al 5V over Wood Deck (New or Existing)
5V-S-W-#	Min. 26ga. steel 5V over Wood Deck (New or Existing)
PBR-W-#	Min. 26ga. steel PBR over Wood Deck (New or Existing)
RIB-W-#	Min. 29ga steel Ultra Rib over Wood Deck (New or Existing)



TECHNICAL SERVICES, LLC

TRI COUNTY METALS
Metal Roofing (non-HVHZ)

APPENDIX B

Approved Systems for Min. 0.032 Al 1 in. TCM-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
L1-AI-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al TCM-LOK 1 in. Max. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see <u>INSTALLATION</u> for list of allowable products) applied to male rib.
					MDP (psf)
					-110

Approved Systems for Min. 26ga. steel TCM-LOK 1 in. over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
L1-S-W-1	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots
L1-S-W-2	Min. 7/16 OSB	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#12-8 XG screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots
L1-S-W-3	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots
L1-S-W-4	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel TCM-LOK 1 in. Max. 16 in. coverage	#10-12 Pancake Type A screws installed 5-1/4 in. o.c. along the fastening strip into the pre-punched slots
L1-S-W-5	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1 in. Max. 16 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see <u>INSTALLATION</u> for list of allowable products) applied to male rib.
					MDP (psf)
					-52.5
					-101
					-116
					-123.5
					-142.5

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Approved Systems for Min. 24ga. steel TCM-LOK 1.5 in. over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
L1.5-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel TCM-LOK 1.5 in. Max. 15 in. coverage	TCM-LOK attachment with #10-12 Pancake Type A screws spaced 5-1/4 in. o.c.; Seam Sealant (see INSTALLATION for list of allowable products) applied to male rib.
					MDP (psf) -122.5

Approved Systems Min. 0.032 Al 1.5 SL-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
SL-AI-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PancipSS MTW low profile head wood screw; Female portion of snap-lock is then engaged over the continuous clip
SL-AI-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 1.5 SL-LOK Max. 15.5 in. coverage	0.032 Al 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-9 PancipSS MTW low profile head wood screw; 3/8 in. wide, continuous bead of NovaFlex Metal Roof Sealant is applied to backside of continuous clip; Female portion of snap-lock is then engaged over the continuous clip
					MDP (psf) -101 -108.5

Approved Systems for Min. 24ga. steel 1.5 SL-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
SL-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 12 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip
SL-S-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	1.5 in. SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip
SL-S-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 SL-LOK Max. 15.5 in. coverage	24 ga. 1.5 in. SL Continuous Clips installed over male leg and fastened 6 in. o.c. with one (1) #10-12 Pancake Type A screws; Female portion of snap-lock is then engaged over the continuous clip
					MDP (psf) -75 -90 -146

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TECHNICAL SERVICES, LLC

TRI COUNTY METALS
Metal Roofing (non-HVHZ)

APPENDIX B

Approved Systems for Min. 0.040 Al 1.75 SS-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
SS-AI-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS SL Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 PancipSS MTW low profile head screws per clip
SS-AI-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.040 Al 1.75 SS-LOK Max. 16 in. coverage	1.75 in. SFS SL Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 PancipSS MTW low profile head screws per clip

Approved Systems for Min. 24ga. steel 1.75 SS-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
SS-S-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage	1.75 in. DM SL Clips spaced 18 in. o.c. at the panel seam secured with two (2) #10-12 Pancake Type A screws per clip

Approved Systems for Min. 24ga. steel 1.75 SS-LOK over Steel Deck (New or Existing)					
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel
SS-S-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 1.75 SS-LOK Max. 18 in. coverage
					1.75 in. DM SL Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip

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APPENDIX B

Approved Systems for Min. 24ga. steel 1.5 MS-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
1.5MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 16 in. coverage	1.5 in. ML Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Pancip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock
1.5MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 1.5 MS-LOK Max. 16 in. coverage	1.5 in. ML Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Pancip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock

Approved Systems for Min. 24ga. steel 2 MS-LOK over Wood Deck (New or Existing)					
System No.	Deck	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
2MS-W-1	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18.75 in. coverage	2 in. ML Clips spaced 16 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Pancip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock
2MS-W-2	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18.75 in. coverage	2 in. ML Clips spaced 8 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Pancip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock
2MS-W-3	Min. 15/32 CDX plywood	OPTIONAL Approved fire barrier	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips spaced 6 in. o.c. at the panel seam secured with two (2) #10-9 x min. 1.5 in. Pancip MTW low profile screws per clip; Panels mechanically seamed with 180° double lock



APPENDIX B

Approved Systems for Min. 24ga. steel 2 MS-LOK over Steel Deck (New or Existing)						
System No.	Deck	Fire Barrier	Insulation	Underlayment	Roof Panel	Panel Attachment
2MS-S-1	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 24 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock
2MS-S-2	Min. 22ga. steel deck	OPTIONAL Approved fire barrier	Min. 1-inch Approved insulation board	As required per FBC	Min. 24ga. steel 2 MS-LOK Max. 18 in. coverage	2 in. ML Clips and Universal Bearing Plates spaced 6 in. o.c. at the panel seam secured with two (2) #14 PANCLIP SD-L fasteners per clip; Panels mechanically seamed with 180° double lock
						MDP (psf)
						-112.25
						-168.5

Approved Systems for Min. 0.032 Al 5V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
5V-AW-1	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Evergrip screws with sealing washers spaced 9 in. o.c.
5V-AW-2	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 0.032 Al 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Evergrip screws with sealing washers spaced 6 in. o.c.
						MDP (psf)
						-127.5
						-150



Approved Systems for Min. 26ga. steel 5V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
5V-S-W-1	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 16 in. o.c.
5V-S-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 16 in. o.c.
5V-S-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 16 in. o.c.
5V-S-W-4	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.
5V-S-W-5	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 16 in. o.c.
5V-S-W-6	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.
5V-S-W-7	Min. 15/32 CDX plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 50 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.
						MDP (psf)
						-67.5
						-78.5
						-86.25
						-90
						-101
						-101.25
						-120

Approved Systems for Min. 26ga. steel 5V Crimp over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
5V-S-W-8	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 9 in. o.c.
5V-S-W-9	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 5V Crimp Max. 24 in. coverage	5V Type 1 attachment with #9-15 Woodgrip or #12-8 Woodgrip XG screws with sealing washers spaced 6 in. o.c.

Approved Systems for Min. 26ga. steel PBR over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
PBR-W-1	Min. 15/32 B-C plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c.
PBR-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c.
PBR-W-3	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 9	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c.



Approved Systems for Min. 26ga. steel PBR over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
PBR-W-1	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c.
PBR-W-2	Min. 15/32 B-C plywood	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c.
PBR-W-3	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel, Grade 80 PBR Max. 36 in. coverage	PBR Type 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c.
						MDP (psf)
						-86
						-93.5
						-153.5

Approved Systems for Min. 29ga. steel Ultra Rib over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
RIB-W-1	Min. 7/16 OSB with OPTIONAL single layer of asphalt shingles.	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c.
RIB-W-2	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles.	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 4 attachment into wood battens with #9-15 x min. 2-inch Woodgrip screws with sealing washers spaced 24 in. o.c.
						MDP (psf)
						-41.7
						-52.5



Approved Systems for Min. 29ga steel Ultra Rib over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
RIB-W-3	Min. 15/32 CDX plywood with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 4 attachment with #9-15 x min. 2-inch Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-4	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-5	Min. 15/32 CDX plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-6	Min. 15/32 3-ply plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-7	Min. 15/32 3-ply plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-8	Min. 15/32 CDX plywood	No. 2 SYP min. 1x4 wood battens secured per Note 11	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 2 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c
						MDP (psf)
						-56
						-63.5
						-67.5
						-78.5
						-86
						-93.5



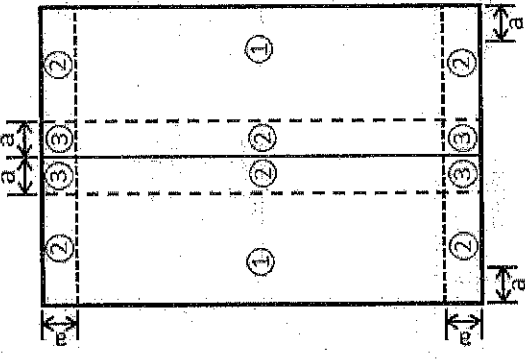
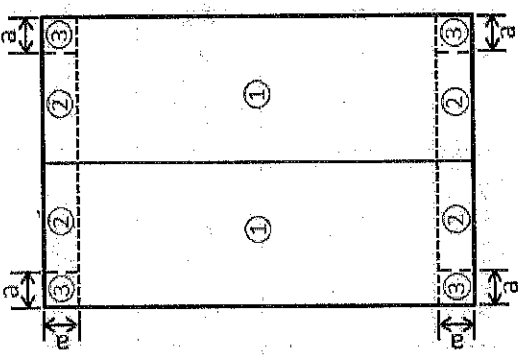
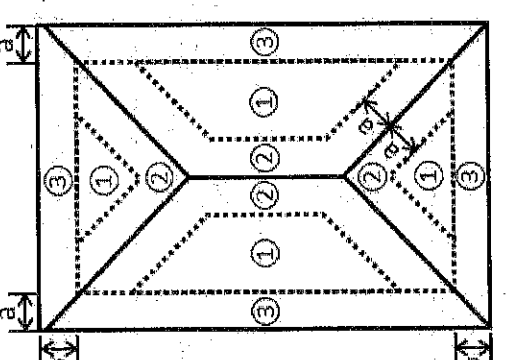
APPENDIX B

Approved Systems for Min. 29ga steel Ultra Rib over Wood Deck (New or Existing)						
System No.	Deck	Battens (Note 7)	Fire Barrier	Underlayment	Roof Panel	Panel Attachment
RIB-W-9	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment with #9-15 Woodgrip screws with sealing washers spaced 24 in. o.c
RIB-W-10	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 1 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 24 in. o.c
RIB-W-11	Min. 7/16 OSB with OPTIONAL single layer of asphalt shingles	-	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment with #12-8 Woodgrip XG screws with sealing washers spaced 12 in. o.c
RIB-W-12	Min. 15/32 CDX plywood	OPTIONAL No. 2 SYP min. 1x4 wood battens secured per Note 8	OPTIONAL Approved fire barrier	As required per FBC	Min. 26ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 1 attachment with #9-15 Woodgrip screws with sealing washers spaced 12 in. o.c
RIB-W-13	Min. 15/32 B-C plywood with OPTIONAL single layer of asphalt shingles	No. 2 SYP min. 1x4 wood battens secured per Note 10	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 4 attachment into wood battens with #9-15 x min. 2-inch Woodgrip screws with sealing washers spaced 6 in. o.c
RIB-W-14	Min. 15/32 CDX plywood	No. 2 SYP min. 1x4 wood battens secured per Note 11	OPTIONAL Approved fire barrier	As required per FBC	Min. 29ga. steel Ultra Rib Max. 36 in. coverage	Ultra Rib 3 attachment into wood battens with #9-15 x min. 1.5-inch Woodgrip screws with sealing washers spaced 24 in. o.c
						MDP (psf)
						-101
						-116.25
						-123.5
						-135
						-131
						-138.5

DESIGN WIND LOADS

The following tables provide design wind loads for components and cladding in accordance with Section 1609 of the FBC and ASCE 7-22 under the following provisions:

1. Wind speeds for risk category I, II, III, and IV buildings shall be as defined in Section 1609 of the FBC.
2. Exposure B, C and D shall be as defined in section 1609 of the FBC.
3. Design wind load provided only for gable/hip roofs with roof slopes between 2:12 and 12:12.
4. All calculations are based on an effective wind area of 10-ft² or less.
5. Topographic factors such as escarpments or hills have been excluded from the analysis.
6. Overhangs have been excluded from the analysis.
7. Wind directionality factor, $K_d = 0.85$
8. Ground elevation factor, $K_g = 1.0$
9. V_{ult} is shown in the tables below. Design wind loads are calculated using $V_{asd} = V_{ult} \sqrt{0.6}$ per 1609.3.1.
10. Zone 2 applies to Zone 3 for Hip Roofs where the slope is between 2:12 and 6:12.
11. Projects with mean roof heights greater than 60-ft shall be evaluated by a licensed design professional.
12. Zones 1, 2, and 3 shall be defined as shown below. Dimension "a" shall be 10% of the least horizontal dimension or (0.4 x Mean Roof Height), whichever is smaller, but not less than either 4% of the least horizontal dimension or 3ft.

Gable Roofs		Hip Roofs	
Slopes 2:12 to 6:12	Slopes >6:12 to 12:12	Slopes 2:12 to 12:12	
			



APPENDIX C

		Gable/Hip Roofs in Exposure B (Roof slope between 2:12 and 12:12)										
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)								190	200
			120	130	140	150	160	170	180	190		
Enclosed/ Partially Open	1	20	-25.4	-29.8	-34.6	-39.7	-45.2	-51.0	-57.2	-63.7	-70.6	-70.6
		25	-26.9	-31.6	-36.6	-42.0	-47.8	-54.0	-60.5	-67.5	-74.7	-74.7
		30	-28.3	-33.2	-38.5	-44.1	-50.2	-56.7	-63.6	-70.8	-78.5	-78.5
		40	-30.5	-35.8	-41.5	-47.7	-54.2	-61.2	-68.6	-76.5	-84.7	-84.7
		50	-32.4	-38.0	-44.1	-50.6	-57.6	-65.0	-72.8	-81.2	-89.9	-89.9
		60	-34.0	-39.9	-46.3	-53.1	-60.4	-68.2	-76.5	-85.2	-94.4	-94.4
	2	20	-33.6	-39.4	-45.7	-52.5	-59.7	-67.4	-75.5	-84.2	-93.3	-93.3
		25	-35.5	-41.7	-48.4	-55.5	-63.2	-71.3	-80.0	-89.1	-98.7	-98.7
		30	-37.3	-43.8	-50.8	-58.3	-66.3	-74.9	-84.0	-93.6	-103.7	-103.7
		40	-40.3	-47.3	-54.9	-63.0	-71.6	-80.9	-90.7	-101.0	-111.9	-111.9
		50	-42.8	-50.2	-58.2	-66.8	-76.0	-85.8	-96.2	-107.2	-118.8	-118.8
		60	-44.9	-52.7	-61.1	-70.2	-79.8	-90.1	-101.0	-112.6	-124.7	-124.7
Partially Enclosed	1	20	-44.1	-51.7	-60.0	-68.8	-78.3	-88.4	-99.1	-110.5	-122.4	-122.4
		25	-46.7	-54.8	-63.5	-72.9	-82.9	-93.6	-105.0	-117.0	-129.6	-129.6
		30	-49.0	-57.5	-66.7	-76.5	-87.1	-98.3	-110.2	-122.8	-136.1	-136.1
		40	-52.9	-62.1	-72.0	-82.6	-94.0	-106.1	-119.0	-132.6	-146.9	-146.9
		50	-56.1	-65.9	-76.4	-87.7	-99.8	-112.6	-126.3	-140.7	-155.9	-155.9
		60	-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7	-163.7
	2	20	-29.7	-34.9	-40.5	-46.5	-52.8	-59.7	-66.9	-74.5	-82.6	-82.6
		25	-31.5	-36.9	-42.8	-49.2	-56.0	-63.2	-70.8	-78.9	-87.4	-87.4
		30	-33.0	-38.8	-45.0	-51.6	-58.7	-66.3	-74.4	-82.8	-91.8	-91.8
		40	-35.7	-41.9	-48.6	-55.8	-63.4	-71.6	-80.3	-89.4	-99.1	-99.1
		50	-37.9	-44.4	-51.5	-59.2	-67.3	-76.0	-85.2	-94.9	-105.2	-105.2
		60	-39.8	-46.7	-54.1	-62.1	-70.7	-79.8	-89.4	-99.7	-110.4	-110.4
	3	20	-37.9	-44.5	-51.6	-59.2	-67.4	-76.0	-85.2	-95.0	-105.2	-105.2
		25	-40.1	-47.1	-54.6	-62.7	-71.3	-80.5	-90.3	-100.6	-111.4	-111.4
		30	-42.1	-49.4	-57.3	-65.8	-74.9	-84.5	-94.8	-105.6	-117.0	-117.0
		40	-45.5	-53.4	-61.9	-71.1	-80.8	-91.3	-102.3	-114.0	-126.3	-126.3
		50	-48.3	-56.6	-65.7	-75.4	-85.8	-96.9	-108.6	-121.0	-134.1	-134.1
		60	-50.7	-59.5	-69.0	-79.2	-90.1	-101.7	-114.0	-127.0	-140.7	-140.7
Partially Enclosed	3	20	-48.4	-56.8	-65.8	-75.6	-86.0	-97.1	-108.8	-121.3	-134.4	-134.4
		25	-51.2	-60.1	-69.7	-80.0	-91.1	-102.8	-115.3	-128.4	-142.3	-142.3
		30	-53.8	-63.1	-73.2	-84.0	-95.6	-107.9	-121.0	-134.8	-149.4	-149.4
		40	-58.1	-68.1	-79.0	-90.7	-103.2	-116.5	-130.6	-145.6	-161.3	-161.3
		50	-61.6	-72.3	-83.9	-96.3	-109.6	-123.7	-138.7	-154.5	-171.2	-171.2
		60	-64.7	-75.9	-88.1	-101.1	-115.0	-129.8	-145.6	-162.2	-179.7	-179.7



CREEK
TECHNICAL SERVICES, LLC

TRI COUNTY METALS
Metal Roofing (non-HVHZ)

APPENDIX C

Gable/Hip Roofs in Exposure C (Roof slope between 2:12 and 12:12)												
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)									
			120	130	140	150	160	170	180	190	200	
Enclosed/ Partially Open	1	20	-36.9	-43.3	-50.2	-57.6	-65.6	-74.0	-83.0	-92.5	-102.5	
		25	-38.7	-45.4	-52.7	-60.5	-68.8	-77.7	-87.1	-97.1	-107.6	
		30	-40.2	-47.2	-54.7	-62.8	-71.4	-80.7	-90.4	-100.8	-111.6	
		40	-42.6	-50.0	-58.0	-66.6	-75.8	-85.5	-95.9	-106.8	-118.4	
		50	-44.6	-52.3	-60.7	-69.7	-79.3	-89.5	-100.4	-111.8	-123.9	
		60	-46.3	-54.3	-63.0	-72.3	-82.3	-92.9	-104.2	-116.1	-128.6	
	2	20	-48.7	-57.2	-66.3	-76.1	-86.6	-97.8	-109.6	-122.2	-135.4	
		25	-51.2	-60.0	-69.6	-79.9	-90.9	-102.7	-115.1	-128.2	-142.1	
		30	-53.1	-62.3	-72.3	-83.0	-94.4	-106.6	-119.5	-133.1	-147.5	
		40	-56.3	-66.1	-76.6	-88.0	-100.1	-113.0	-126.7	-141.1	-156.4	
50		-58.9	-69.2	-80.2	-92.1	-104.8	-118.3	-132.6	-147.7	-163.7		
60		-61.2	-71.8	-83.2	-95.6	-108.7	-122.7	-137.6	-153.3	-169.9		
Partially Enclosed	1	20	-64.0	-75.1	-87.1	-99.9	-113.7	-128.4	-143.9	-160.3	-177.7	
		25	-67.1	-78.8	-91.4	-104.9	-119.4	-134.7	-151.1	-168.3	-186.5	
		30	-69.7	-81.8	-94.8	-108.9	-123.9	-139.8	-156.8	-174.7	-193.6	
		40	-73.9	-86.7	-100.6	-115.5	-131.4	-148.3	-166.3	-185.2	-205.3	
		50	-77.3	-90.8	-105.3	-120.8	-137.5	-155.2	-174.0	-193.9	-214.8	
		60	-80.3	-94.2	-109.3	-125.4	-142.7	-161.1	-180.6	-201.2	-223.0	
	2	20	-43.2	-50.6	-58.7	-67.4	-76.7	-86.8	-97.1	-108.2	-119.9	
		25	-45.3	-53.2	-61.6	-70.8	-80.5	-90.9	-101.9	-113.5	-125.8	
		30	-47.0	-55.2	-64.0	-73.5	-83.6	-94.3	-105.8	-117.8	-130.6	
		40	-49.9	-58.5	-67.9	-77.9	-88.6	-100.0	-112.2	-125.0	-138.5	
50		-52.2	-61.2	-71.0	-81.5	-92.8	-104.7	-117.4	-130.8	-144.9		
60		-54.2	-63.6	-73.7	-84.6	-96.3	-108.7	-121.8	-135.8	-150.4		
3	20	-55.0	-64.5	-74.9	-85.9	-97.8	-110.4	-123.7	-137.9	-152.8		
	25	-57.7	-67.7	-78.6	-90.2	-102.6	-115.8	-129.9	-144.7	-160.3		
	30	-59.9	-70.3	-81.6	-93.6	-106.5	-120.2	-134.8	-150.2	-166.4		
	40	-63.5	-74.6	-86.5	-99.3	-112.9	-127.5	-143.0	-159.3	-176.5		
	50	-66.5	-78.0	-90.5	-103.9	-118.2	-133.5	-149.6	-166.7	-184.7		
	60	-69.0	-81.0	-93.9	-107.8	-122.7	-138.5	-155.3	-173.0	-191.7		

This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

**CREEK**

TECHNICAL SERVICES, LLC

TRI COUNTY METALS
Metal Roofing (non-HVHZ)**APPENDIX C**

Gable/Hip Roofs in Exposure D (Roof slope between 2:12 and 12:12)												
Building Type	Zone	Mean Roof Height (ft)	Basic Wind Speed (mph)									
			120	130	140	150	160	170	180	190	200	
Enclosed/ Partially Open	1	20	-44.7	-52.4	-60.8	-69.8	-79.4	-89.7	-100.5	-112.0	-124.1	
		25	-46.4	-54.4	-63.1	-72.4	-82.4	-93.1	-104.3	-116.2	-128.8	
		30	-47.9	-56.2	-65.1	-74.8	-85.1	-96.1	-107.7	-120.0	-132.9	
		40	-50.3	-59.1	-68.5	-78.6	-89.4	-101.0	-113.2	-126.1	-139.8	
		50	-52.3	-61.4	-71.2	-81.7	-93.0	-105.0	-117.7	-131.1	-145.3	
		60	-54.0	-63.4	-73.5	-84.4	-96.0	-108.4	-121.5	-135.3	-150.0	
	2	20	-59.0	-69.3	-80.3	-92.2	-104.9	-118.5	-132.8	-148.0	-163.9	
		25	-61.3	-71.9	-83.4	-95.7	-108.9	-122.9	-137.8	-153.6	-170.1	
		30	-63.2	-74.2	-86.1	-98.8	-112.4	-126.9	-142.3	-158.5	-175.6	
		40	-66.5	-78.0	-90.5	-103.9	-118.2	-133.4	-149.6	-166.6	-184.6	
		50	-69.1	-81.1	-94.1	-108.0	-122.8	-138.7	-155.5	-173.2	-191.9	
		60	-71.3	-83.7	-97.1	-111.4	-126.8	-143.1	-160.5	-178.8	-198.1	
3	20	-77.5	-90.9	-105.4	-121.0	-137.7	-155.5	-174.3	-194.2	-215.2		
	25	-80.4	-94.4	-109.4	-125.6	-142.9	-161.3	-180.9	-201.5	-223.3		
	30	-83.0	-97.4	-112.9	-129.7	-147.5	-166.5	-186.7	-208.0	-230.5		
	40	-87.2	-102.4	-118.7	-136.3	-155.1	-175.1	-196.3	-218.7	-242.3		
	50	-90.7	-106.4	-123.4	-141.7	-161.2	-182.0	-204.1	-227.4	-251.9		
	60	-93.6	-109.9	-127.4	-146.3	-166.4	-187.9	-210.6	-234.7	-260.0		
Partially Enclosed	1	20	-52.3	-61.3	-71.1	-81.7	-92.9	-104.9	-117.6	-131.0	-145.2	
		25	-54.2	-63.7	-73.8	-84.7	-96.4	-108.8	-122.0	-136.0	-150.6	
		30	-56.0	-65.7	-76.2	-87.5	-99.5	-112.3	-126.0	-140.3	-155.5	
		40	-58.9	-69.1	-80.1	-92.0	-104.6	-118.1	-132.4	-147.5	-163.5	
		50	-61.2	-71.8	-83.3	-95.6	-108.8	-122.8	-137.7	-153.4	-169.9	
		60	-63.2	-74.1	-86.0	-98.7	-112.3	-126.7	-142.1	-158.3	-175.4	
	2	20	-66.6	-78.2	-90.7	-104.1	-118.4	-133.7	-149.9	-167.0	-185.0	
		25	-69.1	-81.1	-94.1	-108.0	-122.9	-138.7	-155.5	-173.3	-192.0	
		30	-71.4	-83.7	-97.1	-111.5	-126.8	-143.2	-160.5	-178.9	-198.2	
		40	-75.0	-88.0	-102.1	-117.2	-133.3	-150.5	-168.8	-188.0	-208.4	
		50	-78.0	-91.5	-106.1	-121.8	-138.6	-156.5	-175.4	-195.5	-216.6	
		60	-80.5	-94.5	-109.6	-125.8	-143.1	-161.5	-181.1	-201.8	-223.6	
3	20	-85.0	-99.8	-115.8	-132.9	-151.2	-170.7	-191.4	-213.2	-236.2		
	25	-88.3	-103.6	-120.1	-137.9	-156.9	-177.1	-198.6	-221.3	-245.2		
	30	-91.1	-106.9	-124.0	-142.4	-162.0	-182.8	-205.0	-228.4	-253.1		
	40	-95.8	-112.4	-130.4	-149.7	-170.3	-192.2	-215.5	-240.1	-266.1		
	50	-99.6	-116.9	-135.5	-155.6	-177.0	-199.8	-224.0	-249.6	-276.6		
	60	-102.8	-120.6	-139.9	-160.6	-182.7	-206.3	-231.2	-257.7	-285.5		

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END OF REPORT

FL36904-R12

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This evaluation report is provided for State of Florida product approval under Rule 61G20-3. The manufacturer shall notify CREEK Technical Services, LLC of any product changes or quality assurance changes throughout the duration for which this report is valid. This evaluation report does not express nor imply warranty, installation, recommended use, or other product attributes that are not specifically addressed herein.

