

**EVALUATION REPORT OF
CORNERSTONE BUILDING BRANDS
'NOM 0.032" THICK ALUMINUM 5V-CRIMP PANEL'**

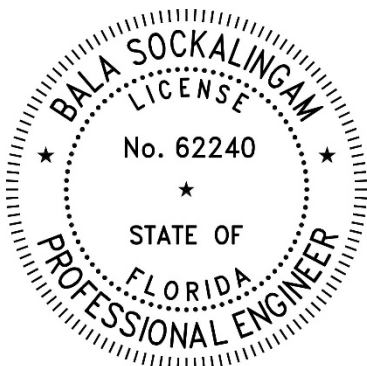
**FLORIDA BUILDING CODE 9TH EDITION (2026)
FLORIDA PRODUCT APPROVAL
FL 48220.3-R1
ROOFING
METAL ROOFING**

**Prepared For:
Cornerstone Building Brands
(Fortify, ABC, Ceco, MBCI, Metal Sales, Metallic, Mueller, Robertson, Star, Union)
5020 Weston Parkway
Cary, NC 27513
Telephone: (281) 897-7788**

**Prepared By:
Bala Sockalingam, Ph.D., P.E.
Florida Professional Engineer #62240
1216 N Lansing Ave., Suite C
Tulsa, OK 74106
Telephone: (918) 492-5992**

**This report consists of
Evaluation Report (3 Pages including cover)
Installation Details (1 Page)
Load Span Table (1 Page)**

**Report No. C3063-3
Date: 10.14.2026**



This item has been digitally signed and sealed by Bala Sockalingam, PE, on the date indicated.

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

**2026.10.14
20:25:08
-04'00'**

Manufacturer:	Cornerstone Building Brands (Fortify, ABC, Ceko, MBCI, Metal Sales, Metallic, Mueller, Robertson, Star, Union)
Manufacturing Location:	Union - 490 Oak Rd., Ocala, FL 34472
Product Name:	Aluminum 5V-Crimp
Panel Description:	24" wide coverage with (5) 1/2" high ribs
Materials:	Min. nominal 0.032" thick 3004-H14 or 3105-H24 Alloy (ASTM B209) as per FBC 2026 Section 1507.4.3.
Deck Description:	Min. 7/16" thick OSB, min. 15/32" thick Plywood or min. 3/4" thick wood plank (min SG of 0.42) for new and existing constructions. Designed by others and installed as per FBC 2026.
Deck Attachment:	8d x 2.5" long ring shank nails or #8 x 2" long wood screws at 6" o.c. in the plywood field and edges (Minimum). Deck fastener spacing at 3" o.c. in the field and edges for roof zones installed with panel fastener spacing of 3" o.c. Designed as per FBC 2026.
New Underlayment:	Minimum underlayment as per FBC 2026 Section 1507.4.5.1. Required for new construction and optional for reroofing construction.
Existing Underlayment: (Optional)	One layer of asphalt shingles over one layer of #30 felt. For reroofing construction only.
Slope:	1/2:12 or greater in accordance with FBC 2026 Section 1507.4.2. Requires applied lap sealant for roof slopes less than 3:12.
Design Uplift Pressure: (Factor of Safety = 2)	30 psf at fastener spacing of 36" o.c. 161.5 psf at fastener spacing of 6" o.c. 222.3 psf at fastener spacing of 3" o.c.
Fastener Pattern:	
Type:	#10-14 hex head wood screw with sealed washer. Fastener shall be of sufficient length to penetrate through the deck a minimum of 3/8". Fasteners are corrosion resistant as per FBC 2026 Section 1507.4.4. For installation in areas within 3000 ft. of a saltwater coastline, fasteners are corrosion resistant as per FBC 2026 Section 1711.
At panel ends	6" o.c. across panel width
At intermediate	11.5"-12.5" o.c. across panel width
Test Standards:	Roof assembly tested in accordance with TAS 125-03 'Standard Requirements for Metal Roofing Systems', UL580-06 'Uplift

Resistance of Roof Assemblies' & UL1897-12 'Uplift Tests for Roof Covering Systems'.

Test Equivalency: The test procedures in UL 1897-12 comply with test procedures prescribed in UL 1897-15.

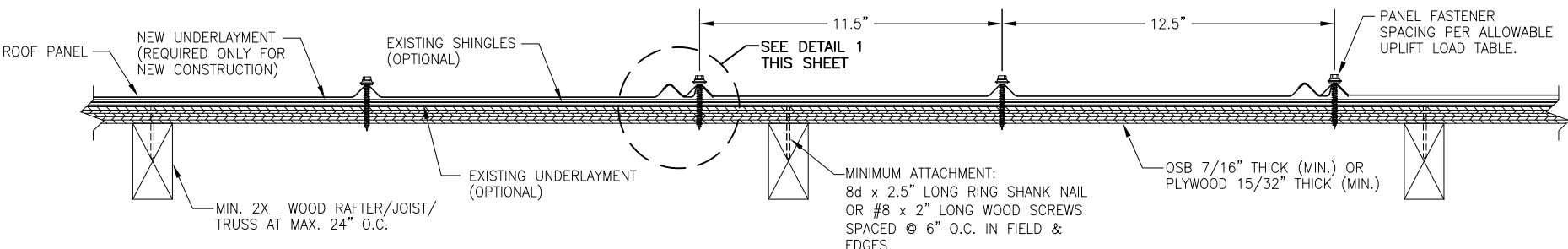
Code Compliance: The product described herein has demonstrated compliance with FBC 2026 Section 1507.4.

Product Limitations: Design wind loads shall be determined for each project in accordance with FBC 2026 Section 1609 or ASCE 7-22 using allowable stress design. The maximum fastener spacing listed herein shall not be exceeded. The design pressure for reduced fastener spacing may be computed using rational analysis prepared by a Florida Professional Engineer or based on Cornerstone Building load span table. This evaluation report is not applicable in High Velocity Hurricane Zone. Fire classification is not within the scope of this Evaluation Report. Refer to FBC 2026 Section 1505 and current approved roofing materials directory or ASTM E108/UL790 report from an accredited laboratory for fire ratings of this product. Metal ridge and hip covers shall comply with FBC 2026 Section 1504.3.1.1 and is not within the scope of this Evaluation Report. Compliance shall be obtained through other approved product subcategory.

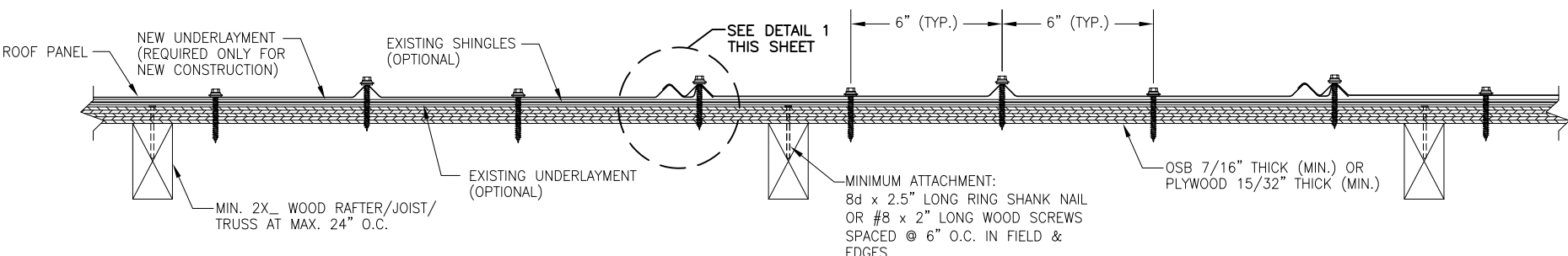
Supporting Documents: TAS 125 Test Reports
Farabaugh Engineering and Testing Inc.
Project No. T198-11, Reporting Date 5/19/2011

UL580 & 1897 Test Reports
Farabaugh Engineering and Testing Inc.
Project No. T162-23, Reporting Date 4/17/2023

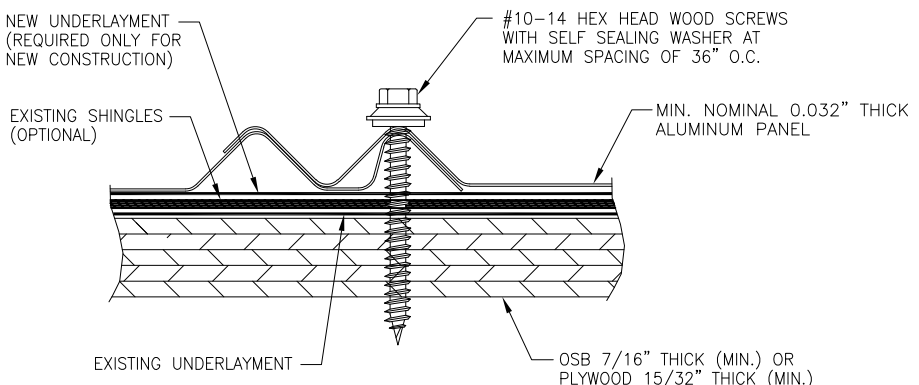
(Cornerstone Building Brands is authorized to use Metal Sales Manufacturing Corporation's Test Reports)



FASTENER PATTERN AT INTERMEDIATE LOCATIONS



**FASTENER PATTERN AT PANEL ENDS
TYPICAL PANEL INSTALLATION X-SECTION**



DETAIL 1

GENERAL NOTES:

1. ARCHITECTURAL ROOF PANEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
2. ROOF PANELS ARE SHALL BE MIN. NOMINAL 0.032" THICK ALUMINUM. COVERING WIDTH OF PANEL = 24".
3. THE ROOF PANELS SHALL BE INSTALLED OVER SHEATHING & STRUCTURE AS SPECIFIED ON THIS DRAWING.
4. REQUIRED DESIGN WIND LOADS SHALL BE DETERMINED FOR EACH PROJECT. THIS PANEL SYSTEM MAY NOT BE INSTALLED WHEN THE REQUIRED DESIGN WIND LOADS ARE GREATER THAN THE ALLOWABLE WIND LOADS SPECIFIED ON THIS DRAWING.
5. ALL FASTENERS MUST BE IN ACCORDANCE WITH THIS DRAWING & THE FLORIDA BUILDING CODE. IF A DIFFERENCE OCCURS BETWEEN THE MINIMUM REQUIREMENTS OF THIS DRAWING & THE CODE, THE CODE SHALL CONTROL.
6. RAFTERS/JOISTS/TRUSSES MUST BE DESIGNED TO WITHSTAND WIND LOADS AS REQUIRED FOR EACH APPLICATION AND ARE THE RESPONSIBILITY OF OTHERS.
7. REQUIRES APPLIED LAP SEALANT FOR ROOF SLOPE < 3:12.

DRAWN BY: B.S.		CHECKED BY: D.S.	
PLOT: DATE: 5/26/2026			
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: ALUMINUM 5V-CRIMP PANEL			
CONSULTANTS: BALA SOCKALINGAM, PH.D., P.E.		MANUFACTURER: CORNERSTONE BUILDING BRANDS	
1216 N LANSING AVE, SUITE C DULLES, VA 20146 PHONE: 916-492-5992		5020 WESTON PARKWAY CARY, NC 27513 281-897-7788	
DRAWING NO. 3063-3		REV.	
PAGE NO. 1		OF 1	

Cornerstone Building Brands
(Fortify, ABC, Ceco, MBCI, Metal Sales, Metallic, Mueller, Robertson, Star, Union)
Aluminum 5V-Crimp Uplift Loads
(Min. Nominal 0.032" thick)

Description	Fastener Spacing along Panel Length (in)	Allowable Uplift Load (psf)
Coverage width: 24" Panel Fastener: #10-14 hex head screws with sealed washer Panel fasteners spaced at max. 12.5" o.c. across panel width through ribs.	3	222.3
	6	161.5
	9	120.0
	12	90.0
	15	72.0
	18	60.0
	21	51.4
	24	45.0
	27	40.0
	30	36.0
	33	32.7
	36	30.0

Notes:

1. The bold numbers indicate design loads calculated from test data with safety factor of 2.
2. Panels must be installed as per Evaluation Report FL 48220.3 and Cornerstone Building Brands current installation procedure.
3. Three or more spans condition.