



FLORIDA PRODUCT APPROVAL

KEY WEST SERIES (5 V CRIMP)

26 GA - 24" ROOF PANEL OVER 15/32" PLYWOOD

FLORIDA PRODUCT APPROVAL NO 21423.7

Product Evaluation Report

26GA 5 V CRIMP Roof Panel over 15/32" Plywood

Florida Product Approval #21423.7

Florida Building Code 2017 6th ed

Per Rule 61G20-3 Method: 1 -D

Category: Roofing Subcategory: Metal Roofing Compliance Method:

Rule 61G20-3

HVHZ

Product Manufacturer:

Sunlast Metal
2120 SW Poma Drive
Palm City, Florida 34990

Engineer Evaluator

Diane G. Marotta, P.E. FL reg # 82591

1915 NE 45th ST. #107
Fort Lauderdale, FL 33308
954-776-8004

Validator:

Locke Bowden, P.E., FL #49704
9450 Alysbury Place
Montgomery, AL 36117

Diane G- Marotta, P.E.
FL reg # 82591
seal



Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1504.3.2, 1507.1.1,1507.4.3, 1518.9, 1523.6.5.2.4

Product Description: 26GA 5 V Crimp Metal Panel, 24" Width, Roof panels, 5/8" Rib height, 12" O.C. Panel THRU FASTENED into 15/32" APA Plywood decking. Non-structural Application. FOR USE IN HVHZ.

Material: 26GA metal conforming to Florida Building Code 2017 Section 1507.4.3 Yield Strength: 55KSI Corrosion Resistance: Panel Material shall comply with Florida Building Code 2017, Section 1507.4.3

Panel Dimensions: Panel Width: 24" width

Fastener: Wood-Zac XG fastener w/Neoprene washer or equivalent #10 Hex Head. Corrosion Resistant per Florida Building Code 2017 Section 1506.7

3/16" minimum penetration through plywood

Corrosion Resistance: Per Florida Building Code 2017, Section 1506.6, 1507.4.4

15/32" APA plywood, plywood supports at maximum 24' O.C. Design of plywood and plywood supports are outside the scope of this evaluation. Must be designed in accordance w/ Florida Building Code 2017.

Design Uplift Pressures: Uplift Design Pressure: with Safety Factor of 2

TABLE A		
Roof Areas	Field	Perimeter/Corner
Max Design Pressure	-78.5psf	-189.25psf
Fastener Spacing	16" o.c.	8" o.c.
Fastener Size	#10	# 10

Insulation: Optional Rigid Insulation board, 3" max thickness compliant with FBC 2017 section 1508.2

Quality Assurance: In accordance with FBC 2017 and Rule # 61620-3: Keystone Certification, Inc. QUA 1824

Test References:

Architectural Testing Inc (TST 1527) # F0755.01-450-18 TAS 125-2003

Architectural Testing Inc (TST 1527) #0412-1017-05 TAS 125-2003

Architectural Testing Inc. (TST 1527)# SFMS-001-02-01 TAS 100-1995 , B8944.01-450-18 TAS 125

PRI Construction Material Technologies(TST5878) AKZC-001-02-01/05 TAS 110-2000

PRI Construction Material Technologies(TST5878)AKZC-001-02-01/05 ASTM B 117-2002

AKZO Nobel Coatings, Inc. Lab Form ASTM G 153

Code Compliance: The product described herein demonstrated compliance with The Florida Building Code (FBC) 2017 Section 1504.3.2. The product evaluation is limited to compliance with the structural wind load requirements of the FBC 2017, as relates to Rule 61G20-3.

Minimum Slope Range 2/12 Minimum Slope per Florida Building Code 2017, and in accordance with Manufacturers recommendations.

Installation: Install per manufacturer's recommended details in compliance with FBC 2017 and RAS 133.

Underlayment: Per Manufacturer's installation guidelines per Florida Building Code 2017 Chapter 1507, Chart 1507.1.1

Roof Panel Fire Classification: No classification.

Shear Diaphragm: values are outside the scope of this report.

Design Procedure: Based on the dimensions of the structure, applicable wind loads are determined using Chapter 16 of the Florida Building Code 2017 -roof cladding wind loads. Component wind loads for roof cladding are compared to the allowable pressure listed above. Design professional shall select the applicable erection details to reference in drawings for correct fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be compliant with Florida Building Code 2017 Chapter 22 for steel, Chapter 23 for wood and Chapter 16 for structural loading. Required wind loads shall be determined per project per FBC 2017 and any rational analysis computation shall be prepared by a licensed design professional.

Certificate of Independence: Diane G. Marotta, P.E. does not have nor will acquire financial interest in any company manufacturing or distributing products under this evaluation. Diane G. Marotta, P.E. is not owned or operated or controlled by any company manufacturing or distributing product under this report.

KEY WEST SERIES (5 V CRIMP)

INSTALL DETAILS

Fastener: # 10 HexHead w/neoprene washer per Evaluation Report Specification

TYPICAL ASSEMBLY PROFILE VIEW

