

Force Engineering & Testing

19530 Ramblewood Drive
Humble, Texas 77338
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Product Evaluation Report
PALRAM AMERICAS, INC.

Sunsky 12" 1.0 mm Polycarbonate Light Transmitting Wall Panel

Florida Product Approval # 11240.1 R6

Florida Building Code 2023

Per Rule 61G20-3

Method: 2 –B

Category: Structural Components

Subcategory: Structural Wall

Compliance Method: 61G20-3.005(2)(b)

NON HVHZ

Product Manufacturer:

Palram Americas, Inc.

9735 Commerce Circle

Kutztown, PA 19530

Engineer Evaluator:

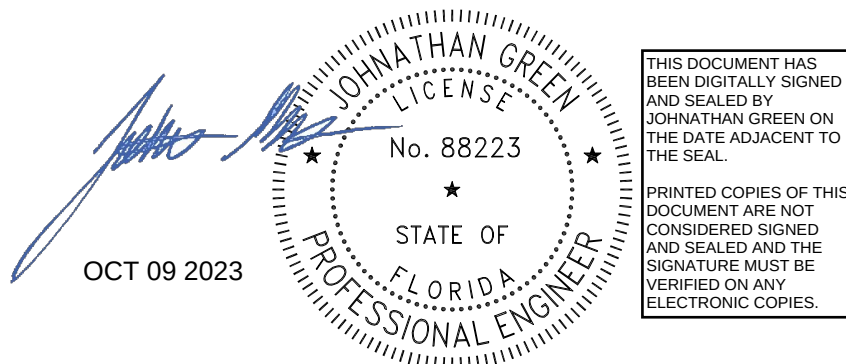
Johnathan Green, P.E. #88223

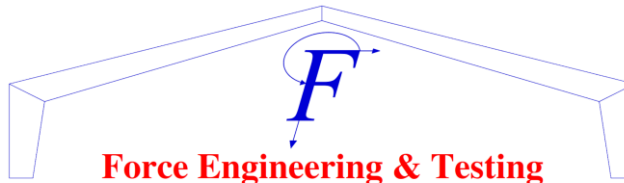
Florida Evaluation ANE ID: 12901

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Compliance Statement:	The product as described in this report has demonstrated compliance with the Florida Building Code 2023, Sections 1709.2, 2606, 2607.
Product Description:	Sunsky 12" Light Transmitting Wall Panel, 1.0 mm thick Polycarbonate, 1 ¼" tall ribs at 12" O.C., 36" Wide, through fastened structural wall panel. Structural Application.
Panel Material/Standards:	Material: Min. 1.0 mm thick Polycarbonate.
Panel Dimension(s):	Thickness: Min. 1.0 mm Width: 36" maximum coverage Rib Height: 1-1/4" major rib at 12" O.C.
Panel Fastener:	#12-14 x 1-1/4" HWH SD with 1 1/8" oversize bonded washer or approved equal at 7"-5"-7"-5"-7" fastener pattern. Panel side laps fastened together w/ ¼- x 1 ¼" Grommet at each support then 1'-3" O.C. Corrosion Resistance: Per Florida Building Code 2023.
Substrate Description:	Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2023.
Allowable Design Pressures:	

Table "A"

Maximum Allowable Design Pressure:	-27.5 psf	+35.0 psf
Fastener Pattern:	7"-5"-7"-5"-7"	7"-5"-7"-5"-7"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.

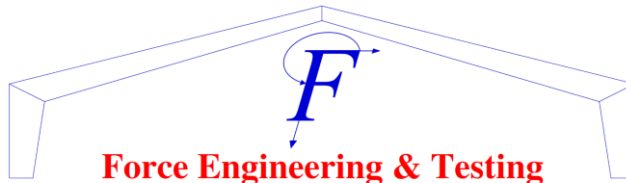
*Design Pressure includes a Safety Factor = 2.0.



Code Compliance:	The product described herein has demonstrated compliance with The Florida Building Code 2023, Section 1709.2, 2606, 2607.
Evaluation Report Scope:	The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2023, as relates to Rule 61G20-3.
Performance Standards:	The product described herein has demonstrated compliance with: ▪ ASTM E 1592-05 (2017) ▪ ASTM D 635-14 ▪ ASTM D 1929-16 ▪ ASTM E 84-18b
Reference Data:	1. ASTM E 1592-01 Force Engineering & Testing, Inc. (FBC Organization # TST-5328) Report No. 273-0027T-08C, D 2. ASTM D 635-98 SGS U.S. Testing Company Inc. Report No. 676900-02, Class CC2 3. ASTM D 1929-96 SGS U.S. Testing Company Inc. Report No. 528768, Flash Ignition 982° F, Self Ignition 1162° F 4. ASTM E 84-05 SGS U.S. Testing Company Inc. Report No. 676900-01, Smoke Developed Index 235, Flame Spread Index 15. 5. Certificate of Independence By Johnathan Green, P.E. (No. 88223) @ Force Engineering & Testing (FBC Organization # ANE ID: 12901
Test Standard Equivalency:	1. The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05(2017) test standard. 2. Letter of Equivalency for ASTM D635, ASTM D1929 and ASTM E84 from Intertek, dated September 30, 2023.
Quality Assurance Entity:	The manufacturer has established compliance of roof panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.



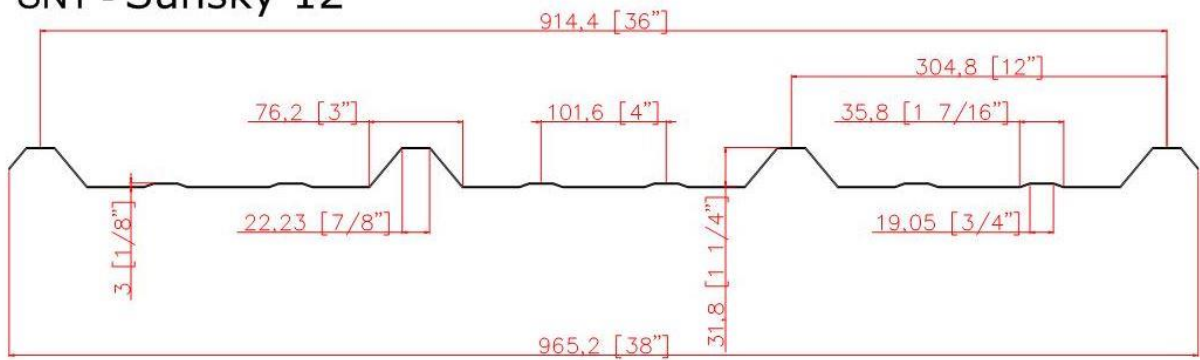
Installation:	Install per manufacturer's recommended details.
Height Limitation:	No more than 75 feet above grade plane.
Area Limitations:	See Table 2607.4 (FBC 2023)
Panels Shall NOT be Installed in:	Groups A-1, A-2, H, I-2, I-3 (FBC 2023, Section 2607.1)
Shear Diaphragm:	Shear diaphragm values are outside the scope of this report.
Design Procedure:	Based on the dimensions of the structure, appropriate wind loads are determined using Chapter 16 of the Florida Building Code 2023 for wall cladding wind loads. These component wind loads for wall cladding are compared to the allowable pressure listed above. The design professional shall select the appropriate erection details to reference in his drawings for proper fastener attachment to his structure and analyze the panel fasteners for pullout and pullover. Support framing must be in compliance with Florida Building Code 2023 Chapter 22 for steel, and Chapter 16 for structural loading.



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SNT - Sunsky 12



SUNSKY 12" POLYCARBONATE PANEL FASTENER LOCATIONS

