

Product Evaluation Report
ENDURO COMPOSITES, INC.

Tuff Span 7.2 x 1.5 Series 250 Roof Panel

Florida Product Approval # 32006.1

Florida Building Code 2017
Per Rule 61G20-3
Method: 2 –B

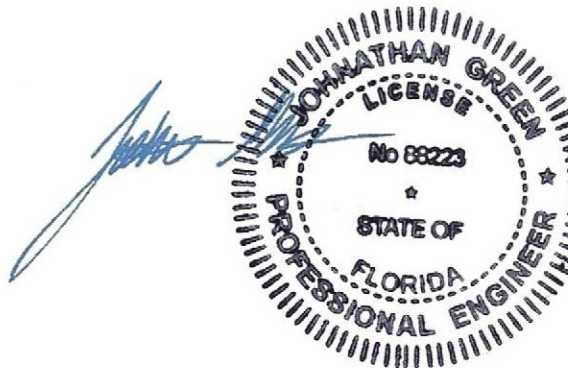
Category: Structural Components
Subcategory: Roof Deck
Compliance Method: 61G20-3.005(2)(b)
NON HVHZ

Product Manufacturer:
Enduro Composites, Inc.
16602 Central Green Blvd.
Houston, Texas 77032

Engineer Evaluator:
Johnathan Green, P.E. # 88223
Florida Evaluation ANE ID: 12901

Validator:
Terrence E. Wolfe, P.E. # 44923

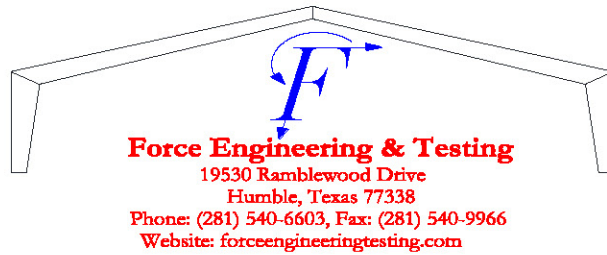
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April 9th, 2020



Compliance Statement: The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1504.7, 1709.2, 2606, 2609.

Product Description: Tuff Span, 7.2x1.5 Series 250 glass fiber reinforced roof panels, 1 ½" tall major ribs at 7.2" O.C., 43.2" coverage, through fastened structural roof panel. Structural Application.

Panel Material/Standards: Material: Nominal 0.065" thick glass fiber reinforced plastic.
 Nominal Weight: 10.5 oz/sf.
 Nominal Glass Content: 48% by weight
 Resin: PFR Iso-Polyester resin system
 Panel Finish: Acrylic polymer exterior UV coating, minimum 0.4mil dry thickness.

Panel Dimension(s): Width: 43.2" maximum coverage
 Rib Height: 1-1/2" major rib at 7.2" O.C.

Panel Fastener: SX-6 #12-14 x 1-1/4" HWH with ¾" oversize bonded washer or approved equal at 7.2"-7.2"-7.2"-7.2"-7.2" fastener pattern. Panel side laps fastened together w/ 3/8" x 1 ¼" Grommet at 18" O.C.
 Corrosion Resistance: Per Florida Building Code 2017, Section 1507.4.4.

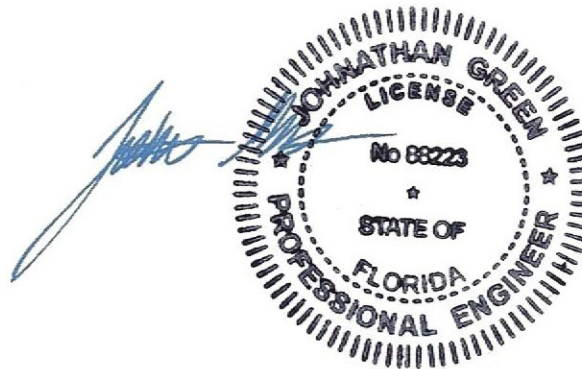
Substrate Description: Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2017.

Allowable Design Pressures:

Table "A"

Maximum Design Pressure:	-45.0 psf	+75.0 psf	-120.0 psf
Fastener Pattern:	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.

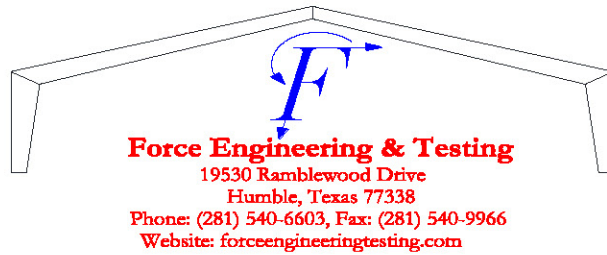
*Design Pressure includes a Safety Factor = 2.0.



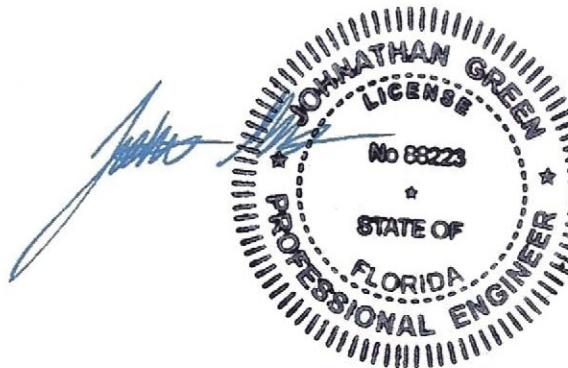
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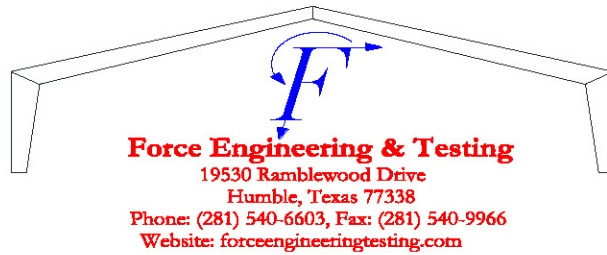
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- Evaluation Report Scope:** The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2017, as relates to Rule 61G20-3.
- Performance Standards:** The product described herein has demonstrated compliance with:
- ASTM E 1592-05 (2012)
 - FM 4471-92
 - ASTM D 635-10
 - ASTM D 1929-12
 - ASTM E 84-2013A
- Reference Data:**
1. ASTM E 1592-01
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 314-0345T-08
 2. FM 4471-10, Section 4.4 Foot Traffic Resistance Test
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 314-0217T-17
 3. ASTM D 635-10
Fenestration Testing Laboratory (FTL)-Miami, FL
Report No. 12086
Test Results: Class CC1
 4. ASTM D 1929-12
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Report No. 100300589SAT-001A
Test Results: Smoke Developed Index 400 & Flame Spread Index 25.
 6. Certificate of Independence
By Johnathan Green, P.E. #88223



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Test Standard Equivalency:

1. The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012) test standard.
2. The FM 4471-10, Foot Traffic Resistance test standard is equivalent to the FM 4471-92, Foot Traffic Resistance test standard.
3. Letter of Equivalency for ASTM E84 from Intertek, dated 04/06/2020.

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.

Minimum Slope Range:

Minimum Slope shall comply with Florida Building Code 2017, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.

Installation:

Install per manufacturer's recommended details.

Panel Separation:

Panels shall be separated from each other by not less than 4 ft. measured in a horizontal plan unless the building meets one of the exceptions in FBC 2017 Section 2609.2.

Area Limitations:

Class CC1: See Table 2609.4 (FBC 2017)

Panels Shall NOT be Installed in:

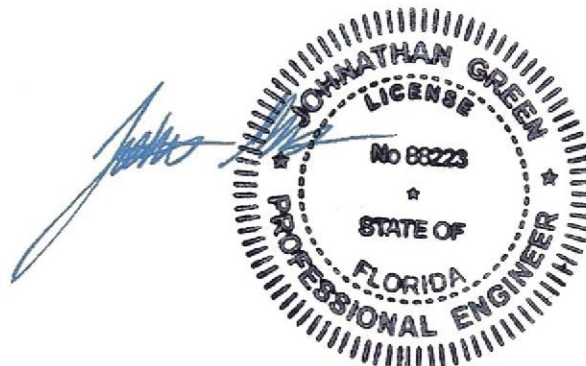
Groups H, I-2, I-3 (FBC 2017, Section 2609.1)

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 2017 for roof cladding wind loads. These component wind loads for roof 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 2017 Chapter 22 for steel, and Chapter 16 for structural loading.

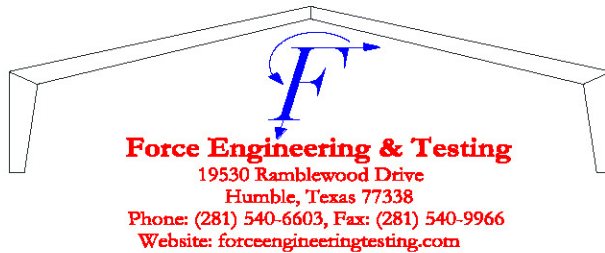


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Florida Product Approval # 32006.1

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Per Rule 61G20-3
Method: 2 –B

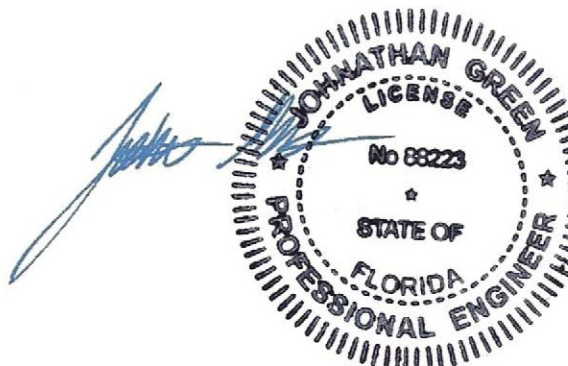
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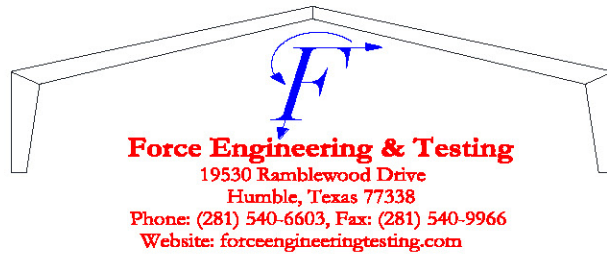
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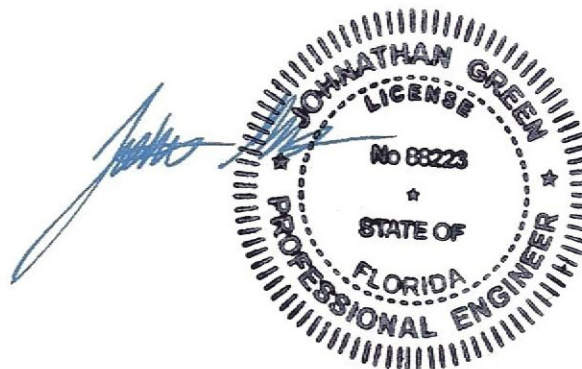
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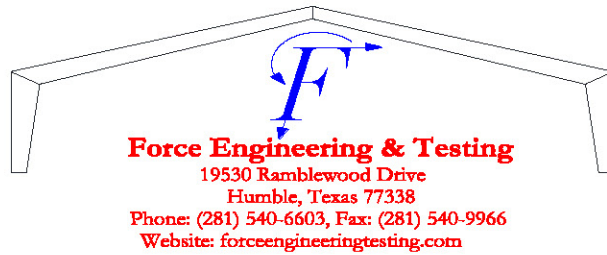
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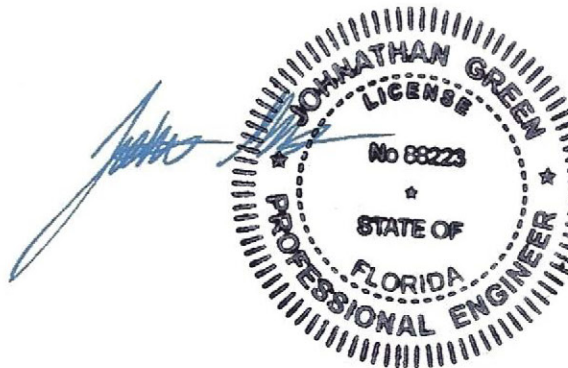
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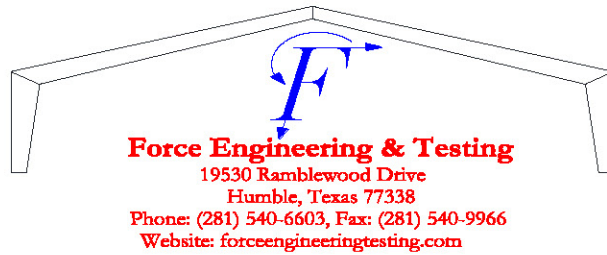
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Quality Assurance Entity:

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.

Minimum Slope Range:

Minimum Slope shall comply with Florida Building Code 2017, including Section 1507.4.2 and in accordance with Manufacturers recommendations. For slopes less than 3:12, lap sealant must be used in the panel side laps.

Installation:

Install per manufacturer's recommended details.

Panel Separation:

Panels shall be separated from each other by not less than 4 ft. measured in a horizontal plan unless the building meets one of the exceptions in FBC 2017 Section 2609.2.

Area Limitations:

Class CC1: See Table 2609.4 (FBC 2017)

Panels Shall NOT be Installed in:

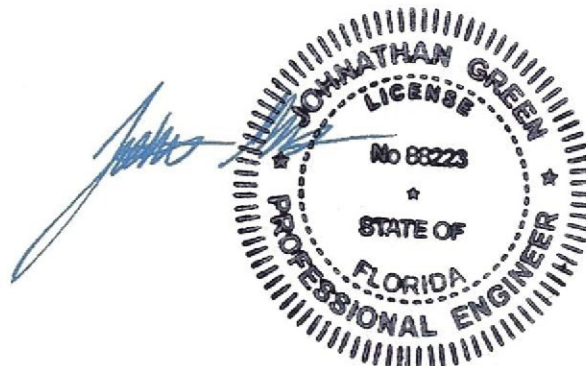
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Shear Diaphragm:

Shear diaphragm values are outside the scope of this report.

Design Procedure:

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FL# 32006.1



Force Engineering & Testing

19530 Ramblewood Drive

Humble, Texas 77338

Phone: (281) 540-6603, Fax: (281) 540-9966

Website: forceengineeringtesting.com

Product Evaluation Report
ENDURO COMPOSITES, INC.

Tuff Span 7.2 x 1.5 Series 250 Wall Panel

Florida Product Approval # 32007.1

Florida Building Code 2017

Per Rule 61G20-3

Method: 2 –B

Category: Structural Components

Subcategory: Structural Wall

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

NON HVHZ

Product Manufacturer:

Enduro Composites, Inc.

16602 Central Green Blvd.

Houston, Texas 77032

Engineer Evaluator:

Johnathan Green, P.E. # 88223

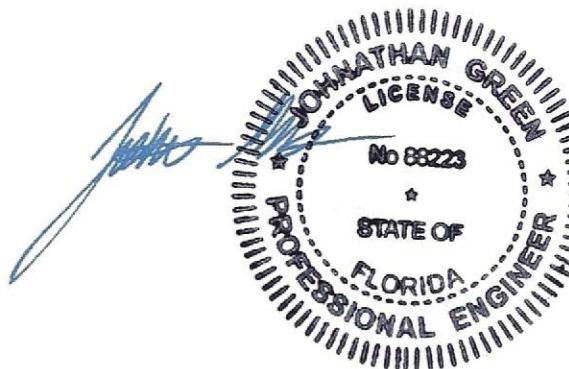
Florida Evaluation ANE ID: 12901

Validator:

Terrence E. Wolfe, P.E. # 44923

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Humble, Texas 77338

Phone: (281) 540-6603, Fax: (281) 540-9966

Website: forceengineeringtesting.com

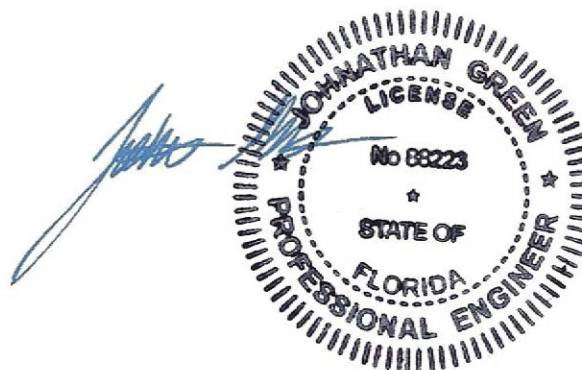
- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1709.2, 2606, 2607.
- Product Description:** Tuff Span, 7.2x1.5 Series 250 glass fiber reinforced wall panels, 1 1/2" tall major ribs at 7.2" O.C., 43.2" coverage, through fastened structural wall panel. Structural Application.
- Panel Material/Standards:** Material: Nominal 0.065" thick glass fiber reinforced plastic.
Nominal Weight: 10.5 oz/sf.
Nominal Glass Content: 48% by weight.
Resin: PFR Iso-Polyester resin system.
Panel Finish: Acrylic polymer exterior UV coating, minimum 0.4mil dry thickness.
- Panel Dimension(s):** Width: 43.2" maximum coverage
Rib Height: 1-1/2" major rib at 7.2" O.C.
- Panel Fastener:** SX-6 #12-14 x 1-1/4" HWH with 3/4" oversize bonded washer or approved equal at 7.2"-7.2"-7.2"-7.2"-7.2" fastener pattern. Panel side laps fastened together w/ 3/8" x 1 1/4" Grommet at 18" O.C.
Corrosion Resistance: Per Florida Building Code 2017.
- Substrate Description:** Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2017.

Allowable Design Pressures:

Table "A"

Maximum Design Pressure:	-45.0 psf	+75.0 psf	-120.0 psf
Fastener Pattern:	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.

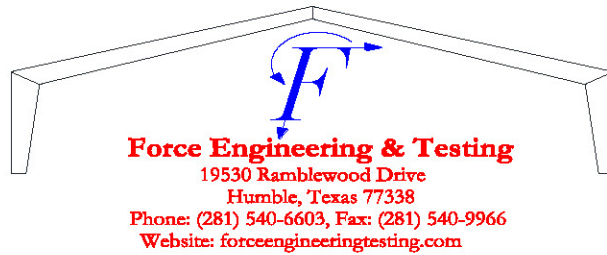
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Code Compliance:

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Evaluation Report Scope:

The product evaluation is limited to compliance with the structural wind load requirements of the Florida Building Code 2017, as relates to Rule 61G20-3.

Performance Standards:

The product described herein has demonstrated compliance with:

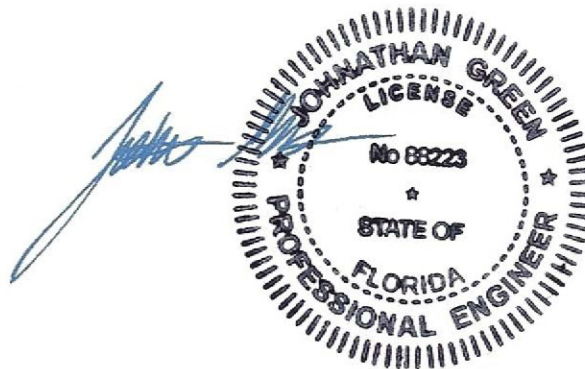
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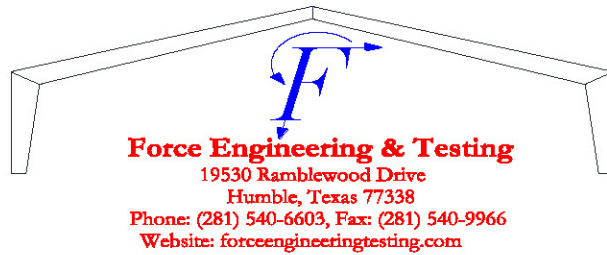
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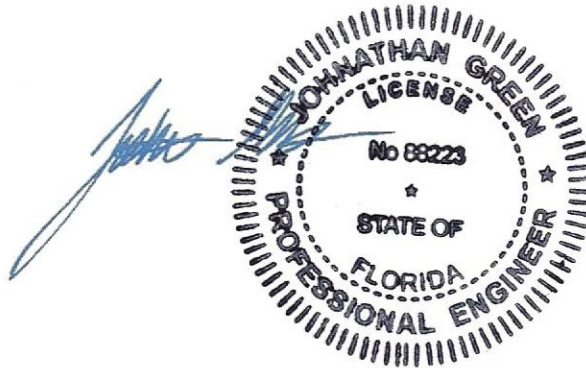
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Quality Assurance Entity:	The manufacturer has established compliance of wall panel products in accordance with the Florida Building Code and Rule 61G20-3.005 (3) for manufacturing under a quality assurance program audited by an approved quality assurance entity.
Installation:	Install per manufacturer's recommended details.
Height Limitation:	No more than 75 feet above grade plane.
Area Limitations & Separation Requirements:	Class CC1: See Table 2607.4 (FBC 2017)
Panels Shall NOT be Installed in:	Groups A-1, A-2, H, I-2, I-3, nor with any other "Groups" if the wall requires a fire-resistant rating. See (FBC 2017, Section 2607.1) for further instructions.
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 2017 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 2017 Chapter 22 for steel, and Chapter 16 for structural loading.



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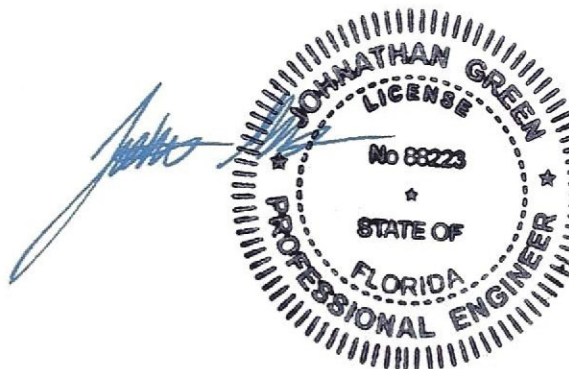
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Website: forceengineeringtesting.com

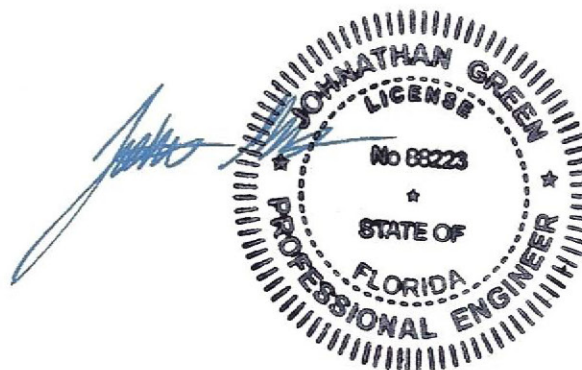
- Compliance Statement:** The product as described in this report has demonstrated compliance with the Florida Building Code 2017, Sections 1709.2, 2606, 2607.
- Product Description:** Tuff Span, 7.2x1.5 Series 250 glass fiber reinforced wall panels, 1 1/2" tall major ribs at 7.2" O.C., 43.2" coverage, through fastened structural wall panel. Structural Application.
- Panel Material/Standards:** Material: Nominal 0.065" thick glass fiber reinforced plastic.
Nominal Weight: 10.5 oz/sf.
Nominal Glass Content: 48% by weight.
Resin: PFR Iso-Polyester resin system.
Panel Finish: Acrylic polymer exterior UV coating, minimum 0.4mil dry thickness.
- Panel Dimension(s):** Width: 43.2" maximum coverage
Rib Height: 1-1/2" major rib at 7.2" O.C.
- Panel Fastener:** SX-6 #12-14 x 1-1/4" HWH with 3/4" oversize bonded washer or approved equal at 7.2"-7.2"-7.2"-7.2"-7.2" fastener pattern. Panel side laps fastened together w/ 3/8" x 1 1/4" Grommet at 18" O.C.
Corrosion Resistance: Per Florida Building Code 2017.
- Substrate Description:** Min. 16 Ga. Steel Framing. Framing must be designed in accordance w/ Florida Building Code 2017.

Allowable Design Pressures:

Table "A"

Maximum Design Pressure:	-45.0 psf	+75.0 psf	-120.0 psf
Fastener Pattern:	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"	7.2"-7.2"-7.2"-7.2"-7.2"
Fastener Spacing:	5'-0" O.C.	5'-0" O.C.	2'-0" O.C.

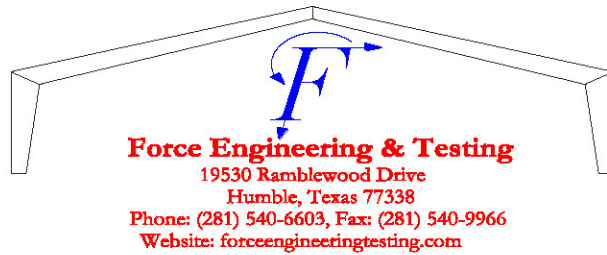
*Design Pressure includes a Safety Factor = 2.0.



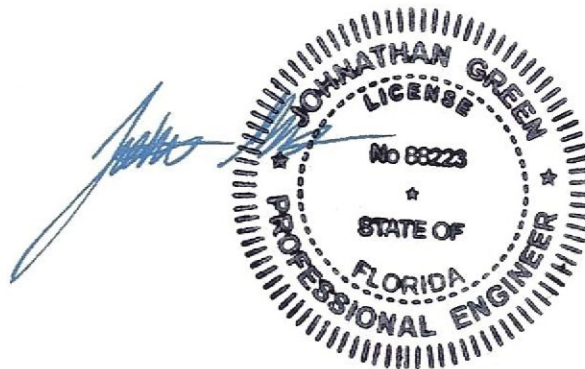
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April 9th, 2020



- Code Compliance:** The product described herein has demonstrated compliance with The Florida Building Code 2017, 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 2017, as relates to Rule 61G20-3.
- Performance Standards:** The product described herein has demonstrated compliance with:
- ASTM E 1592-05 (2012)
 - ASTM D 635-10
 - ASTM D 1929-12
 - ASTM E 84-2013A
- Reference Data:**
1. ASTM E 1592-01
Force Engineering & Testing, Inc. (FBC Organization # TST-5328)
Report No. 314-0345T-08
 2. ASTM D 635-10
Fenestration Testing Laboratory (FTL)-Miami, FL
Report No. 12086
Test Results: Class CC1
 3. ASTM D 1929-12
Fenestration Testing Laboratory (FTL)-Miami, FL
Report No. 12086
Test Results: Self-Ignition 779° F
 4. ASTM E 84-10
Intertek
Report No. 100300589SAT-001A
Test Results: Smoke Developed Index 400 & Flame Spread Index 25.
 5. Certificate of Independence
By Johnathan Green, P.E. #88223
- Test Standard Equivalency:**
1. The ASTM E 1592-01 test standard is equivalent to the ASTM E 1592-05 (2012) test standard.
 2. Letter of Equivalency for ASTM E84 from Intertek, dated 04/06/2020.

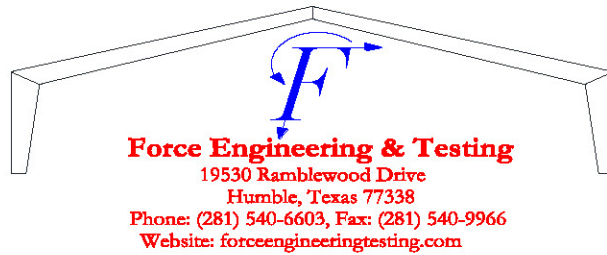


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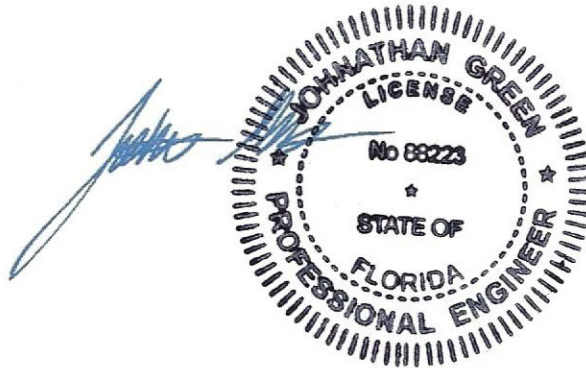
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FL# 32007.1



Quality Assurance Entity:	The manufacturer has established compliance of wall 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 & Separation Requirements:	Class CC1: See Table 2607.4 (FBC 2017)
Panels Shall NOT be Installed in:	Groups A-1, A-2, H, I-2, I-3, nor with any other "Groups" if the wall requires a fire-resistant rating. See (FBC 2017, Section 2607.1) for further instructions.
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 2017 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 2017 Chapter 22 for steel, and Chapter 16 for structural loading.



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