



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
 BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
 PRODUCT CONTROL SECTION  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**CENTRIA, Inc.**  
 1005 Beaver Grade Road  
 Moon Township, PA 15108

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Graphix Series Insulated Steel Wall Panel System**

**APPROVAL DOCUMENT:** Engineering Report & Drawings No. 13-137, titled "Graphix Series Wall Panel System", sheets 1 through 10 of 10, dated 05/28/2013, with revision 1 dated on 08/26/2013, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each panel shall bear a permanent label with the manufacturer's name or logo, city, state, series/model and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA 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 NOA **renews and revises** NOA # 11-0414.04 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



*CUtrera*  
 10/10/2013

NOA No. 13-0625.02  
 Expiration Date: October 23, 2018  
 Approval Date: October 17, 2013  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Engineering Report & Drawings No. **13-137**, titled "Graphix Series Wall Panel System", sheets 1 through 10 of 10, dated 05/28/2013, with revision 1 dated on 08/26/2013, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.

**B. TESTS "Submitted under NOA # 08-0715.05"**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Tensile Test per ASTM E8

along with marked-up drawings and installation diagram of Formawall Graphix Series Wall Panels, prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T321-07**, dated 11/16/2007, signed and sealed by Daniel G. Farabaugh, P.E.

**C. CALCULATIONS "Submitted under NOA # 08-0715.05"**

1. Engineering analysis and calculations, prepared by C-Buck Engineering, dated 06/06/2008, signed and sealed by James L. Buckner, P.E.

**D. QUALITY ASSURANCE**

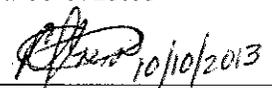
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

**E. MATERIAL CERTIFICATIONS "Submitted under NOA # 08-0715.05"**

1. Test report on Surface Burning Characteristics, per ASTM E84 of Baytherm 871 (PIR), Report No. **01.10932.01.026h and 026i**, both prepared by Southwest Research Institute, both dated 11/29/2004 and both signed by Marc L. Janssens, Ph.D.
2. Test report on Self-Ignition Temperature per ASTM D1929 of Baytherm 871 (PIR), prepared by Southwest Research Institute, Test Report No. **01.17794.01.301**, dated 11/16/2012, signed by Barry L. Badders, Jr., P.E.
3. Test reports on physical and mechanical properties of Baytherm 872 PUR and 871 PIR per ASTM D2126, ASTM D1623, ASTM D1621, ASTM D1622, ASTM C209 and ASTM D5856, both prepared by Sunderman Laboratories, Test Reports No. 49700 and 49800, dated 07/26/2005 and 03/17/2006, both signed by William A. Sunderman.

**F. STATEMENTS**

1. Statement letter of code conformance to 2010 FBC issued by C-Buck Engineering, dated 06/05/2013, signed and sealed by James L. Buckner, P.E.
2. Statement letter of no financial interest issued by C-Buck Engineering, dated 06/27/2008, signed and sealed by James L. Buckner, P.E. "*Submitted under NOA # 08-0715.05*"



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 13-0625.02

Expiration Date: October 23, 2018  
Approval Date: October 17, 2013

# Engineering Report & Drawings

## Graphix Series Wall Panel System

Manufacturer  
**CENTRIA, Inc.**

For

### Miami-Dade Notice of Acceptance

**Category:** Panels  
**Sub - Category:** Wall

**Product Name:** *Graphix Series Wall Panel System*  
**Interior & Exterior Face Material:** *Steel*  
**Core Material:** *Foam*  
**Panel Dimensions:** *36 in. Maximum Coverage Width*  
**Support Type:** *Steel Support*

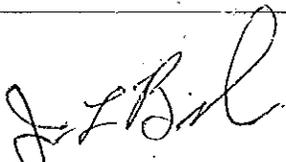
#### Prepared by:

James L. Buckner, P.E., SECB  
Florida Professional Engineer # 31242  
Project Manager: Youry Demosthenes  
Report No.: 13-137-Cen-GSWPS-ER  
Date: 5 / 28 / 13  
Revised: 8 / 26 / 13

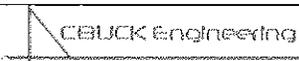
#### Contents:

Cover Page: Page 1  
Evaluation: Pages 2 - 6  
Installation Drawings & Details: Pages 7 - 10

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 13-0625.02  
Expiration Date 10/23/2018  
By [Signature]  
Miami Dade Product Control

  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
9/4/13

TITLE: ENGINEERING REPORT  
For Graphix Series Wall Panel System

  
CBUGK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

MANUFACTURER:  
CENTRIA, Inc.  
1005 Beaver Grade Road  
Moon Township, PA 15108

DATE:	5 / 28 / 13
PAGE #:	1 OF 10
REPORT #:	13-137-Cen-GSWPS-ER
DRAWN BY:	YD
Rev 1:	8 / 26 / 13

**1.0 Product**

- 1.1 **Manufacturer:** CENTRIA, Inc.
- 1.2 **Product Name:** Graphix Series Wall Panel System

**2.0 Evaluation Scope:**

**2.1 Evaluation Criteria:**

Florida Building Code (FBC) 2010  
 Code Section: High Velocity Hurricane Zone (HVHZ)  
 Miami-Dade County Department of Regulatory and Economic Resources Product Control Section Checklist #0285  
 And Testing Application Standards TAS 201, 202 and 203.

**2.2 Evaluation Classification:**

Category: Panels  
 Sub Category: Wall

**2.3 Properties Evaluated:**

- Wind Resistance Properties
  - Air Infiltration
  - Uniform Static Air Pressure
  - Water Resistance
  - Large Missile Impact
  - Cyclic Wind Pressure
- Fire and Flame Properties
  - Flame Spread Index
  - Smoke Developed Index
  - Spontaneous Ignition Temperature
  - Flash Ignition Temperature

**2.4 Limits of Evaluation:**

This product is limited to compliance with the criteria in section 2.1 and properties in section 2.3 of this report.

**3.0 Evaluated Uses:**

- 3.1 The Graphix Series Panels are steel face and foam core as nonbearing exterior wall panels.

**4.0 Assembly Description:**

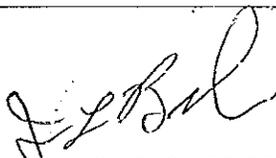
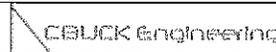
**4.1 General:**

The Graphix Series Wall Panel Systems are factory assembled sandwich panels with interior and exterior steel facings and a foam-in-place plastic core. These panels may be applied horizontally or vertically. The panels have a tongue and groove interlocking edge. Panels are anchored to supports with clips and screws. There are reveals along panels' edges and segment joints in the exterior face.

**4.2 Panel Dimensions:**

- Length: 20 ft Maximum
- Coverage Width: 10 in. – 36 in
- Thicknesses: 2 in & 3 in

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 13-1625.02  
 Expiration Date 10/23/2018  
 By   
 Miami Dade Product Control

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 9/4/13	<b>TITLE: ENGINEERING REPORT</b> For Graphix Series Wall Panel System		
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	<b>MANUFACTURER:</b> CENTRIA, Inc. 1005 Beaver Grade Road Moon Township, PA 15108	DATE: 5 / 28 / 13
		PAGE #: 2 OF 10	
		REPORT #: 13-137-Cen-GSWPS-ER	
		DRAWN BY: YD	
		Rev 1: 8 / 26 / 13	

**5.0 Support:**

The Support assembly is designed by others and shall have the following minimum Characteristics:

Type:	Wall Stud framing
Material:	Steel
Flange Thickness:	16 Ga. (0.062") Minimum
Flange Width:	2-1/4" Minimum
Yield Strength:	33 ksi Minimum
Spacing:	2 ft o.c. Maximum

**6.0 Performance:**

**6.1 Structural Panel**

**6.1.1 Wind Resistance (Uniform Static Air Pressure per TAS 202):**

Design Pressures:	<b>Positive</b>	<b>+ 85 psf</b>
	<b>Negative</b>	<b>- 85 psf</b>

Based on:

a) Support spaced	2 ft o.c.
b) 2 or more spans	

**6.1.2 Air Infiltration:**

Standard:	TAS 202
Results:	Passed

**6.1.3 Water Infiltration:**

Standard:	TAS 202
Results:	Passed

**6.1.4 Impact Rating:**

Type:	Large Missile Impact
Standard:	TAS 201
Results:	Passed

**6.1.5 Cyclic Wind Pressure:**

Standard:	TAS 203
Results:	Passed

**6.2 Fire Classification**

**6.2.1 Standard:** ASTM D1929

	Required	Tested
Self Ignition Temperature:	> 650° F	896° F SIT Test 1 770° F SIT Test 2

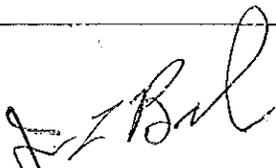
**6.2.2 Standard:** ASTM E84

	Required	Test 1
Flame Spread Index:	< 75	25
Smoke Developed Index:	< 450	400

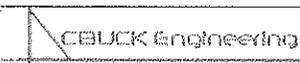
**6.2.3 Standard:** ASTM E84

	Required	Test 2
Flame Spread Index:	< 75	25
Smoke Developed Index:	< 450	325

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No 13-0625.02  
Expiration Date 10/23/2018  
By [Signature]  
Miami Dade Product Control

  
**JAMES L. BUCKNER, P.E.**  
FLORIDA P.E. #31242  
9/4/13

**TITLE: ENGINEERING REPORT**  
**For Graphix Series Wall Panel System**

  
**CBUCK, Inc.** COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

**MANUFACTURER:**  
**CENTRIA, Inc.**  
1005 Beaver Grade Road  
Moon Township, PA 15108

DATE:	5 / 28 / 13
PAGE #:	3 OF 10
REPORT #:	13-137-Cen-GSWPS-ER
DRAWN BY:	YD
Rev 1:	8 / 26 / 13

**7.0 Code Compliance**

7.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 2010 for the properties evaluated.

**8.0 Limitations of Use:**

- 8.1 The panel supports shall be 16 gauge minimum.
- 8.2 Maximum deflection shall be L/180.
- 8.3 The panels shall be supported by structural framing members complying with the Florida Building Code, High Velocity Hurricane Zone (HVHZ).
- 8.4 Panel shall not be used as axial load bearing components and shall not be intended/designed to act as a diaphragm.
- 8.5 The engineer of record or architect shall verify that the supporting structure is capable of resisting the superimposed loads from the wall panel system and that the supporting structure is capable of providing lateral stability to carry the wind loads to the building foundation.

**9.0 Identification:**

Each panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city and state, model/series and the following statement: "Miami-Dade County Product Control Approved" unless otherwise noted herein.

**10.0 Reference Data:**

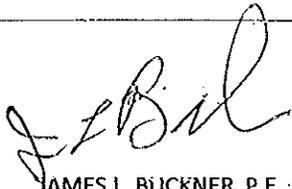
10.1 TAS 201 – Large Missile Impact Test  
 TAS 202 – Air Infiltration Test  
 TAS 202 – Uniform Static Air Pressure Test  
 TAS 202 – Water Resistance Test  
 TAS 203 – Cyclic Wind Pressure Loading  
 Report No.: T321-07                      Dated: 11/16/07  
 By: Farabaugh Engineering and Testing, Inc.

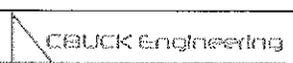
10.2 ASTM D1929 – Self-Ignition Temperature  
 (for Baytherm 871 PIR)  
 Project No.: 01.17794.01.301              Dated: 11/16/12  
 By: Southwest Research Institute

10.3 ASTM E 84 – Flame Spread Index /Smoke Developed Index  
 (for Baytherm 871 PIR)  
 Project No.: 01.10932.01.026h              Dated: 11/16/04  
 By: Southwest Research Institute

10.4 ASTM E 84 – Flame Spread Index /Smoke Developed Index  
 (for Baytherm 871 PIR)  
 Project No.: 01.10932.01.026i              Dated: 11/29/04  
 By: Southwest Research Institute

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No 13-0625.02  
 Expiration Date 10/23/2018  
 By [Signature]  
 Miami Dade Product Control

  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 9/4/13

TITLE: ENGINEERING REPORT For Graphix Series Wall Panel System	
 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	MANUFACTURER: CENTRIA, Inc. 1005 Beaver Grade Road Moon Township, PA 15108
	DATE: 5/28/13
	PAGE #: 4 OF 10
	REPORT #: 13-137-Cen-GSWPS-ER
	DRAWN BY: YD
Rev 1: 8/26/13	

**11.0 Components Assembly Evaluated**

**11.1 Graphix Series Wall Panel**

**(A) Panel Face (Exterior)**

The panel has a steel (exterior) face. The panel faces are available in various finishes, coatings and colors.

Material: Steel  
 Yield Strength: 50 ksi (Nominal)  
 Corrosion Resistance: G-90 Galvanized  
 Material Standard: ASTM A653  
 Thickness: 22 Gauge (t = 0.030")

**(B) Panel Core**

The Core is a CFC-free Polyisocyanurate foam-insulated plastic

Density: 2.78 – 3.1 pcf

**(C) Panel Liner (Interior)**

The panel has a steel (interior) liner. The panel liners are available in various finishes, coatings and colors.

Material: Steel  
 Yield Strength: 50 ksi (Nominal)  
 Corrosion Resistance: G-90 Galvanized  
 Material Standard: ASTM A653  
 Thickness: 22 Gauge (t = 0.030")

**11.2 A-31 Attachment Clip:**

This is the standard clip used between panels to secure the panel to the steel support

Material: Steel  
 Yield Strength: 33 ksi Minimum  
 Corrosion Resistance: G-90 Galvanized  
 Thickness: 12 Gauge (t = 0.1046") Minimum

**11.3 SP-1735 Base Extrusion:**

This is the standard base extrusion used at the bottom of the panel to secure the panel to the steel support.

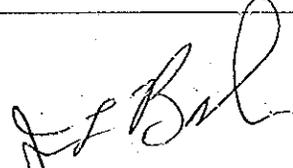
Material: Aluminum  
 Alloy: 6063-T5  
 Thickness: 0.125" Typical

**11.4 SP-599 Base Extrusion:**

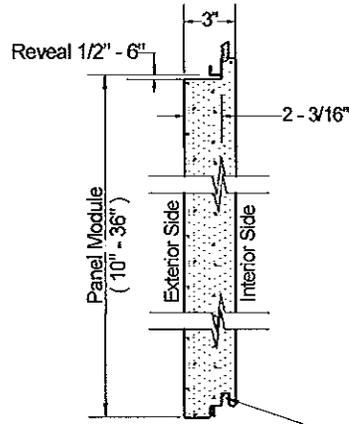
This is the standard extrusion used at the top of the window opening to secure the 2" panel to the steel support.

Material: Aluminum  
 Alloy: 6063-T5  
 Thickness: 0.078" Typical

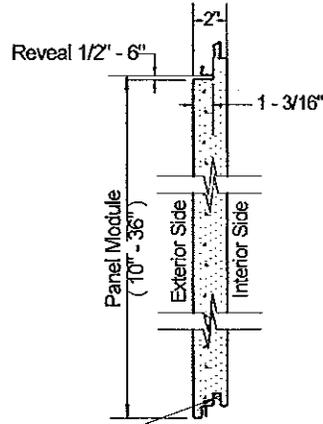
PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 13-0625.02  
 Expiration Date 10/23/2018  
 By   
 Miami Dade Product Control

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 9/4/13	TITLE: ENGINEERING REPORT For Graphix Series Wall Panel System		
	 CBUCK, Inc. COA #8064 1399 N. Killian Dr., Ste 4 W. Palm Beach, FL 33403 (561) 491-9927	MANUFACTURER: CENTRIA, Inc. 1005 Beaver Grade Road Moon Township, PA 15108	DATE: 5 / 28 / 13
			PAGE #: 5 OF 10
			REPORT #: 13-137-Cen-GSWPS-ER
			DRAWN BY: YD
		Rev 1: 8 / 26 / 13	

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 13-0625.02  
 Expiration Date 10/23/2018  
 By *[Signature]*  
 Miami Dade Product Control

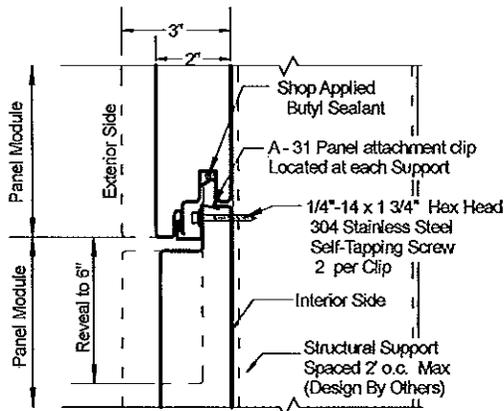


**3" Horizontal Panel**

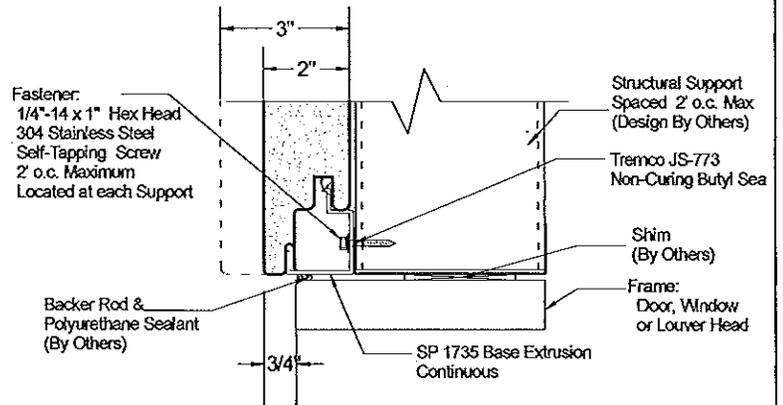


**2" Horizontal Panel**

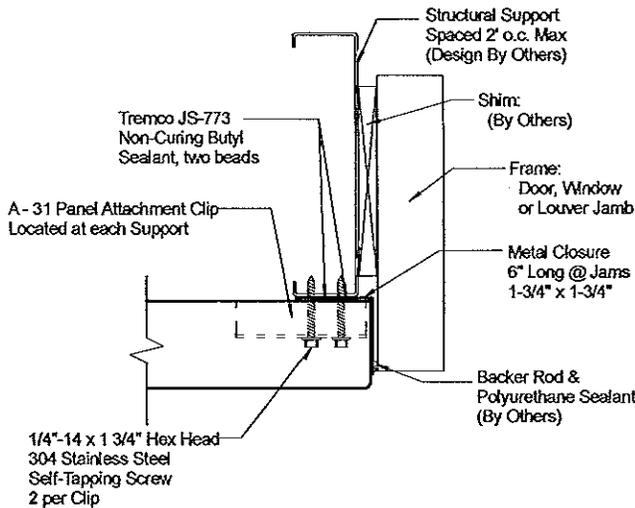
Shop Applied Butyl Sealant



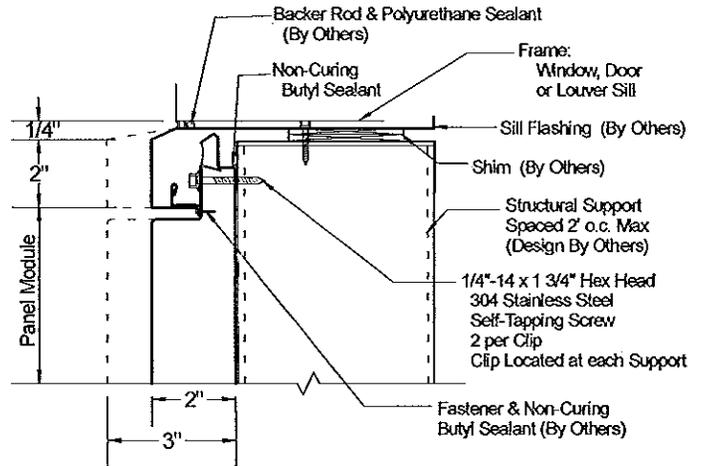
**Horizontal Side Joint**



**Typical Head Opening for Horizontal Panels**



**Typical Jamb Opening for Horizontal Panels**



**Typical Sill Opening for Horizontal Panels**

Not To Scale

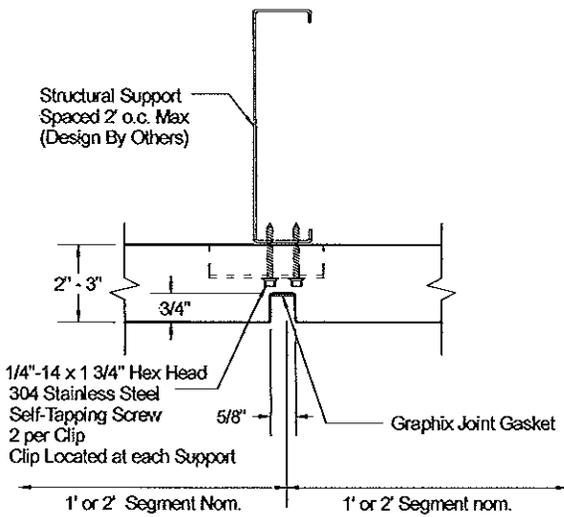
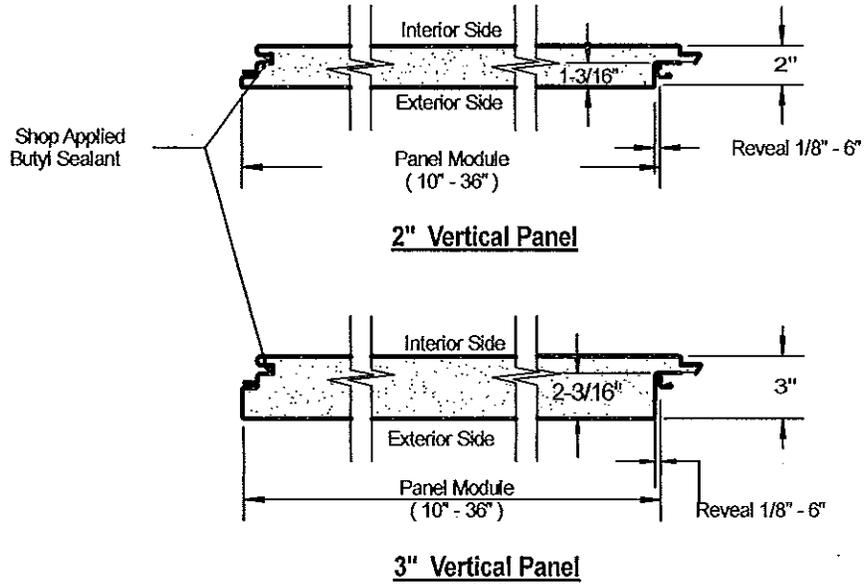
*[Signature]*  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 9/11/13

**TITLE: Horizontal Panel Profile & Installation Details  
 For Graphix Series Wall Panel System**

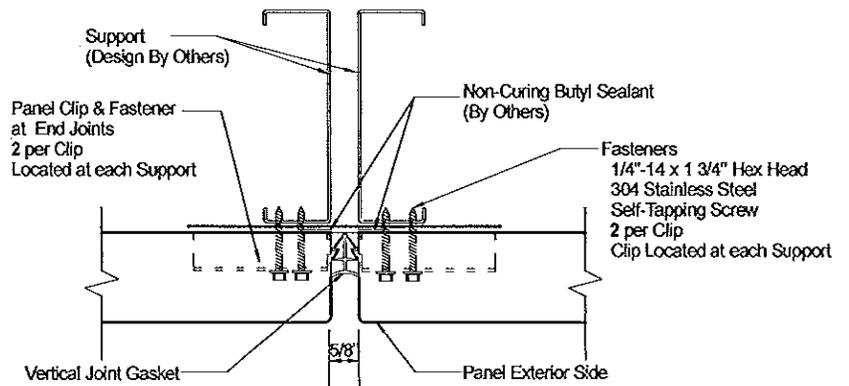
CBUCK Engineering  
 CBUCK, Inc. COA #8064  
 1399 N. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

MANUFACTURER:  
 CENTRIA, Inc.  
 1005 Beaver Grade Road  
 Moon Township, PA 15108

DATE: 5/28/13  
 PAGE #: 7 OF 10  
 REPORT #: 13-137-Cen-GSWPS-ER  
 DRAWN BY: YD  
 Rev 1: 8/26/13



**Typical Segmented Joint for Both Horizontal & Vertical Panels**



**Typical End Joints for Both Horizontal & Vertical Panels**

**PRODUCT REVISED as complying with the Florida Building Code**  
 Acceptance No 13-0625.02  
 Expiration Date 10/23/2018

By [Signature]  
 Miami Dade Product Control

Not To Scale

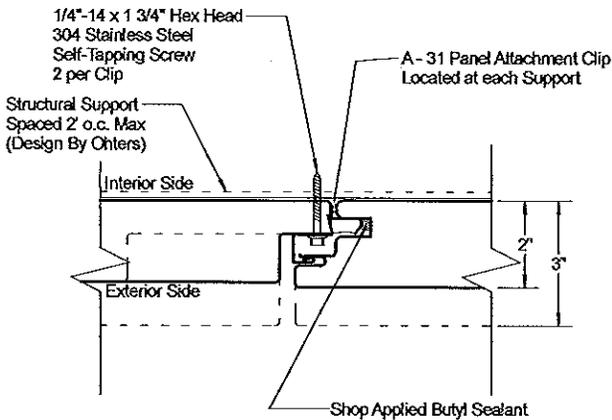
[Signature]  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 9/11/13

**TITLE: Vertical Panel Profile & Installation Details For Graphix Series Wall Panel System**

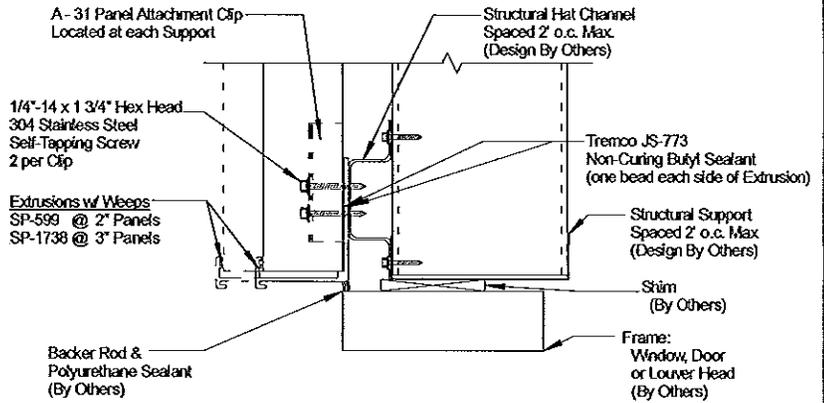
**CBUCK Engineering**  
 CBUCK, Inc. COA #8064  
 1399 N. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

**MANUFACTURER:**  
 CENTRIA, Inc.  
 1005 Beaver Grade Road  
 Moon Township, PA 15108

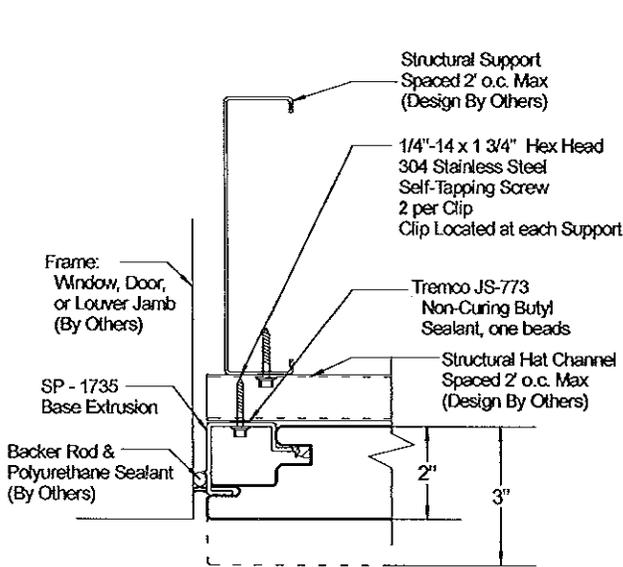
DATE:	5 / 28 / 13
PAGE #:	8 OF 10
REPORT #:	13-137-Cen-GSWPS-ER
DRAWN BY:	YD
Rev 1:	8 / 26 / 13



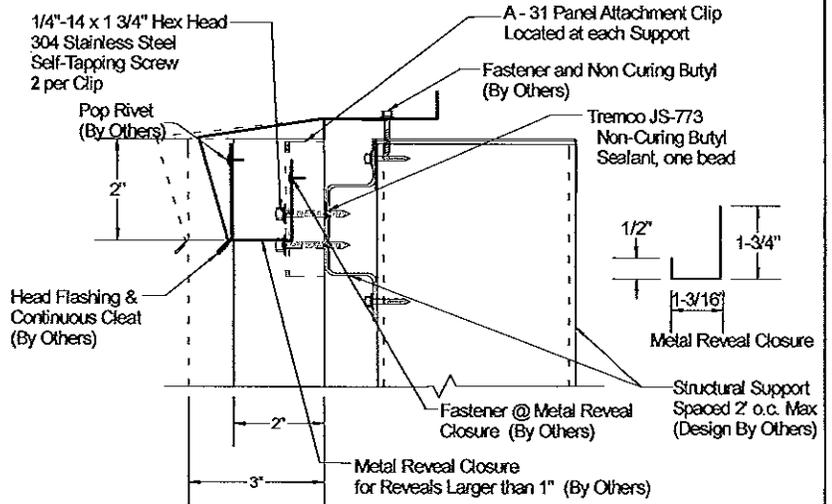
**Typical Side Joint for Vertical Panels**



**Typical Head Opening for Vertical Panels**



**Typical Jamb Opening for Vertical Panels**



**Typical Sill Opening for Vertical Panels**

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 13-0625.02  
 Expiration Date 10/23/2018

By *[Signature]* Not To Scale  
 Miami Dade Product Control

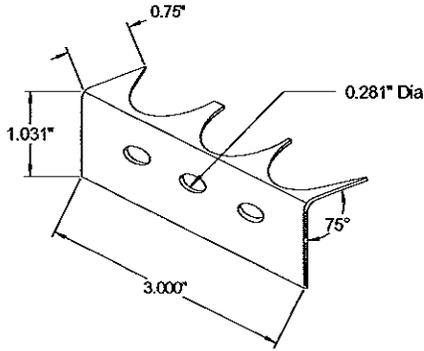
*[Signature]*  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
 9/4/13

TITLE: Vertical Panel Installation Details  
 For Graphix Series Wall Panel System

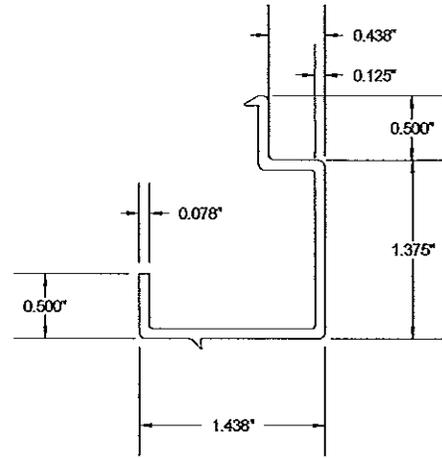
CBUCK Engineering  
 CBUCK, Inc. COA #8064  
 1399 N. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

MANUFACTURER:  
 CENTRIA, Inc.  
 1005 Beaver Grade Road  
 Moon Township, PA 15108

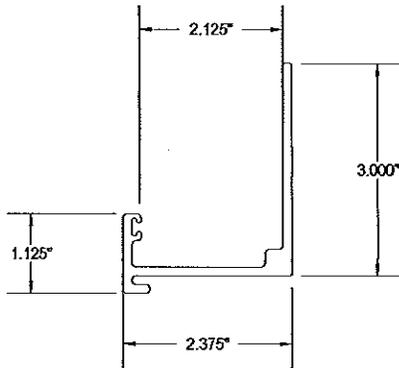
DATE:	5 / 28 / 13
PAGE #:	9 OF 10
REPORT #:	13-137-Cen-GSWPS-ER
DRAWN BY:	YD
Rev 1:	8 / 26 / 13



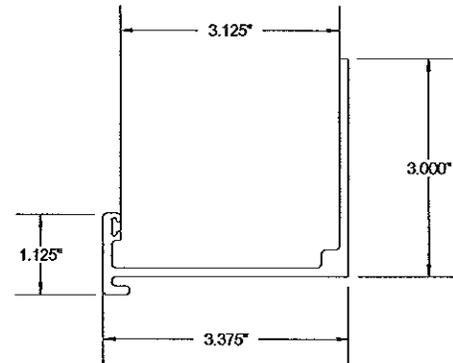
**A-31 Attachment Clip Drawing**  
(Per Section 11.2)



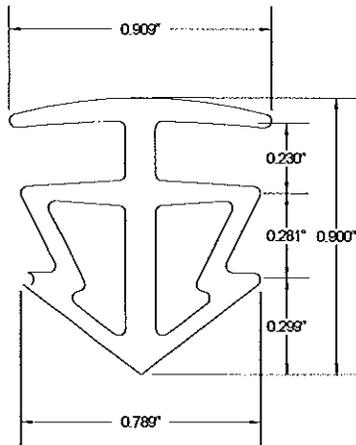
**SP-1735 Base Extrusion**  
(Per Section 11.3)



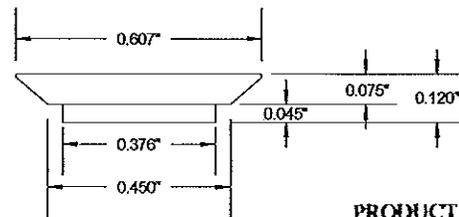
**SP-599 Base Extrusion**  
(Per Section 11.4)



**SP-1738 Base Extrusion**  
(Per Section 11.5)



**Vertical Joint Gasket**  
(Per Section 11.6)



**Graphix Joint Gasket**  
(Per Section 11.7)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 13-0625.02  
Expiration Date 10/23/2018  
By *[Signature]*  
Miami Dade Product Control

Not To Scale

*[Signature]*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
9/1/13

**TITLE: Typical Components  
For Graphix Series Wall Panel System**

**CBUCK Engineering**  
CBUCK, Inc. COA #8064  
1399 N. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

**MANUFACTURER:**  
CENTRIA, Inc.  
1005 Beaver Grade Road  
Moon Township, PA 15108

DATE:	5 / 28 / 13
PAGE #:	10 OF 10
REPORT #:	13-137-Cen-GSWPS-ER
DRAWN BY:	YD
Rev 1:	8 / 26 / 13