



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Kingspan Insulated Panels, Inc.**  
726 Summerhill Drive  
Deland, FL 32724

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: "KS Series" Insulated Steel Wall Panel**

**APPROVAL DOCUMENT:** Drawing No. 14-143-KS Series-ER.1, titled "KS Series Insulated Wall Panel System", sheets 1 through 10 of 10, prepared by Cbuck Engineering, dated October 08, 2015, last revision #2 dated January 26, 2016, signed and sealed by James L. Buckner, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval 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 and the 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
02/04/2016

NOA No. 15-0820.05  
Expiration Date: 02/04/2021  
Approval Date: 02/04/2016

**Kingspan Insulated Panels, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0803.11**

**A. DRAWINGS**

1. *Drawing No. 14-143-KS Series-ER.1, titled "KS Series Insulated Wall Panel System", sheets 1 through 10 of 10, prepared by Cbuck Engineering, dated October 08, 2015, last revision #2 dated January 26, 2016, signed and sealed by James L. Buckner, P.E.*

**B. TESTS**

1. *Test report on Large Missile Impact Test per TAS 201, Cyclic Wind Pressure Test per TAS 203, and Uniform Static Air Pressure Test per TAS 202 on KS Series Insulated Steel Wall Panel, prepared by Farabaugh Engineering and Testing, Inc., Report No. T151-15, dated 03/31/2015, signed & sealed by Daniel G. Farabaugh, P.E.*
2. *Test report on Surface Burning Characteristics per ASTM E84-10 on KS Series Insulated Steel Wall Panel, prepared by Intertek, Report No. 100151273COQ-001, dated 11/02/2011.*

**C. CALCULATIONS**

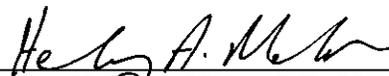
1. *Calculations titled "KS Series Insulated Wall Panel System", 3 pages, dated 11/16/2015, prepared by Cbuck Engineering, signed and sealed by James L. Buckner, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *FM Approval Report for various wall series produced with minimum 26 GA. Steel facers and the KSUSSB-01 PIR Foam System.*



Henry A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No. 15-0820.05  
Expiration Date: 02/04/2021  
Approval Date: 02/04/2016

# Engineering Report & Drawings

Of

## Kingspan Insulated Panels, Inc.

### "KS Series"

#### Insulated Wall Panel System

For

#### Miami-Dade Notice of Acceptance (N.O.A.)

**Category: Panels**

**Sub - Category: Wall**

Product Type: Insulated Metal Wall Panel System

Interior & Exterior Facing Material: Steel

Core Material: Polyisocyanurate Foam

**Prepared by:**

**James L. Buckner, P.E.**

Florida Professional Engineer # 31242

Project Manager: Youry Demosthenes

Report No.: 14-143-KS Series-ER.1

Date: 10 / 8 / 15

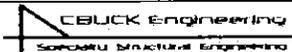
#### Contents:

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Product Drawings & Details	Page 6-10

Approved as complying with the  
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Date 02/04/2016  
NOA# 15-0820-05  
Miami Dade Product Control

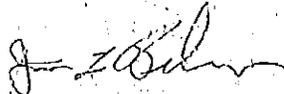
By 

#### KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL ENGINEERING REPORT

  
CBUCK, Inc. COA #8064  
www.cbuckinc.net  
(561) 491-9927  
2637 E. Atlantic Blvd, # 34026  
Pompano Beach, FL 33062

MANUFACTURER:  
Kingspan Insulated Panels, Inc.  
726 Summerhill Drive  
Deland, FL 32724

DATE:	10 / 8 / 15
PAGE #:	1 OF 10
REPORT #:	14-143-KS Series-ER.1
PROJECT #:	14-143
DRAWN BY:	YD
REV. 2:	1 / 26 / 16

  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242

1/28/16

**1.0 Product:**

- 1.1 **Manufacturer:** Kingspan Insulated Panels, Inc.
- 1.2 **Product Name:** "KS Series" Insulated Steel Wall Panel
- 1.3 **Category:** Panels
- 1.4 **Subcategory:** Wall

**2.0 Evaluation Scope:**

**2.1 Evaluation Criteria:**

- 2.1.1 Florida Building Code (FBC) 5th Edition (2014)
- 2.1.2 Code Section: High Velocity Hurricane Zone (HVHZ)
- 2.1.3 Miami-Dade Department Of Regulatory And Economic Resources, Product Control Section Checklist # 0250

**2.2 Properties Evaluated:**

- 2.2.1 Wind Resistance Properties
  - 2.2.1.1 Air Infiltration per TAS 202
  - 2.2.1.2 Uniform Static Air Pressure per TAS 202
  - 2.2.1.3 Water Resistance per TAS 202
  - 2.2.1.4 Large Missile Impact per TAS 201
  - 2.2.1.5 Cyclic Wind Pressure per TAS 203
- 2.2.2 Material Properties
  - 2.2.2.1 Tensile Strength per ASTM A370
- 2.2.3 Fire and Flame Properties
  - 2.2.3.1 Flame Spread Index per ASTM E84
  - 2.2.3.2 Smoke Developed Index per ASTM E84
  - 2.2.3.3 Self-Ignition Temperature per ASTM D1929

**2.3 Limits of Evaluation:**

This product is limited to compliance with the criteria in section 2.1 and properties in section 2.2 of this report.

**3.0 Evaluated Uses:**

Kingspan "KS Series" Insulated Wall Panels are evaluated for use as nonbearing exterior wall panels.

**4.0 Assembly Description:**

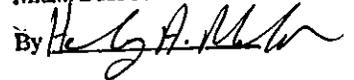
**4.1 General:**

Kingspan "KS Series" Insulated Wall Panel systems are factory assembled sandwich panels with steel facings and polyisocyanurate foam core. These panels are applied vertically. The panels have a tongue and groove interlocking edges. The panels are anchored to supports with clips and screws.

**4.2 Panel Dimensions:**

- 4.2.1 Length: 20 ft. Maximum
- 4.2.2 Coverage Width: 42 in. Maximum  
24 in. Minimum
- 4.2.3 Overall Thicknesses: 2 in, 2.5 in, 3 in, 4 in, 5 in, & 6 in

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 Florida Building Code  
 Date 02/04/2016  
 NOA# 15-0870.05  
 Miami Dade Product Control

By 

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
 ENGINEERING REPORT**



JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242

1/28/16

  
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 726 Summerhill Drive  
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**5.0 Support:**

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

- 5.1 Type: Horizontal Girts or Vertical Studs
- 5.2 Material: Steel
- 5.3 Thickness: 14 Ga.
- 5.4 Yield Strength: 50 ksi Minimum
- 5.5 Support Spacing: Refer to Table Below

**6.0 Performance:**

**6.1 Wind Resistance:**

PANEL DESCRIPTION	SUPPORT SPACING (ft.)	TABLE "A" ALLOWABLE DESIGN LOADS (psf)			
		Single Span		Double Span	
		Positive	Negative	Positive	Negative
Min. 26 Ga. Steel Interior & Exterior skin  Panel Core Thicknesses: 2", 2.5", 3", 4", 5", & 6"	4 ft	70	- 90	70	- 90
	5 ft	63	- 80	63	- 80
	6 ft	58	- 72	58	- 72
	7 ft	52	- 62	52	- 62
	8 ft	46	- 53	46	- 53
	9 ft	41	- 44	41	- 44
	10 ft	35	- 35	35	- 35
	Notes: • Allowable design pressure(s) for allowable stress design (ASD). • Fastener Attachment to Steel Supports May Be Designed By A Qualified Design Professional As Required By The Florida Building Code For Site Specific Projects. • Diaphragm and axial load capacity are not included in this evaluation.				

**6.2 Air Infiltration:**

Standard: TAS 202  
Results: Passed

**6.3 Water Infiltration:**

Standard: TAS 202  
Results: Passed

**6.4 Impact Rating:**

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

**6.5 Fire Classification:**

Standard:	ASTM D1929	Required	Tested	Approved as complying with the Florida Building Code Date <u>02/04/2016</u> NOA# <u>15-0820.05</u> Miami Dade Product Control <i>By [Signature]</i>
Self Ignition Temperature:	> 650° F		878° F	
Standard:	ASTM E 84	Required	Tested	
Flame Spread Index:	< 75		26	
Smoke Developed Index:	< 450		255	

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
ENGINEERING REPORT**

*[Signature]*  
 JAMES L. BUCKNER, P.E.  
 FLORIDA P.E. #31242  
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**CBUCK Engineering**  
 Secondary Structural Engineering  
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**7.0 Installation:**

Each panel shall be fastened at the joints to the supports with ONE 12 ga. hidden fastener clip (per section 12.2) and TWO 1/4"-14 HWH TEK3 self-drilling screws per clip (per section 12.3).

In addition, attach the interior face of each panel with four #10 Fab-Lok fasteners (per section 12.4), at each panel intermediate to supports at 8.4" o.c. maximum.

All bolts and washers shall be galvanized or stainless steel of 60 ksi minimum

The connection of the steel channel to the existing supporting structure is not part of this product control approval and it shall be submitted to permitting jurisdiction for review and approval.

Refer to Drawings on pages 6 through 10 of this report for supplemental installation guide.

**8.0 Limitations of Use:**

- 8.1 The panel supports shall be 14 gauge minimum.
- 8.2 Maximum support spacing shall not be exceeded.
- 8.3 The panels shall be supported by structural framing members complying with the Miami-Dade (Florida High velocity zone) code.
- 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 Code Compliance**

- 9.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code, 5<sup>th</sup> Edition (2014) for the properties evaluated.

**10.0 Identification:**

- 10.1 Each Panel shall bear a permanent label with the manufacturer's name or logo, manufacturing plant's city, state and the statement reading "Miami-Dade County Product Control Approved" is to be located on each panel.

**11.0 Reference Data:**

- 11.1 TAS 201, 202 & 203 – Large Missile Impact Test, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test. & Cyclic Wind Pressure Loading, respectively.  
Report No.: T151-15 Report Date: 3/31/15  
By: Farabaugh Engineering & Testing, Inc.
- 11.2 TAS 201, 202 & 203 – Large Missile Impact Test, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test. & Cyclic Wind Pressure Loading, respectively.  
Report No.: T152-15 Report Date: 3/31/15  
By: Farabaugh Engineering & Testing, Inc.
- 11.3 TAS 201, 202 & 203 – Large Missile Impact Test, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test. & Cyclic Wind Pressure Loading, respectively.  
Report No.: T153-15 Report Date: 3/31/15  
By: Farabaugh Engineering & Testing, Inc.
- 11.4 ASTM E 84 – Flame Spread Index /Smoke Density  
Report Number: 100151273CO-001 Report Date: 12/10/10, Revision Date: 11/2/11  
By: Intertek

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 Florida Building Code  
 Date 02/04/2016  
 NOA# 15-0820-05  
 Miami Dade Product Control  
 By: *[Signature]*

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
ENGINEERING REPORT**

*[Signature]*  
**JAMES L. BUCKNER, P.E.**  
 FLORIDA P.E. #31242  
 1/28/16

**CBUCK Engineering**  
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**12.0 Product Components:**

**12.1 KS Series Insulated Metal Wall Panel**

**(A) Panel Exterior Face**

The panel has a steel face. The panel exterior face is available in various architectural finishes & profiles.

- 12.1.1 Material: Steel
- 12.1.2 Thickness: 26 Gauge (t = 0.018 in Min.)
- 12.1.3 Yield Strength: 47.2 ksi Minimum
- 12.1.4 Corrosion Resistance: Aluminum Zinc coated Steel per ASTM A792 AZ50  
Or Galvanized Steel per ASTM A653 G-90

**(B) Panel Core**

The Core is a Foamed-in-Place Polyisocyanurate (IR) Laminated rigid foam insulation

- 12.1.5 Density of Foam: 2.2 pcf

**(C) Panel Interior Face**

The panel has a steel face. The panel interior face is available in various finishes.

- 12.1.6 Material: Steel
- 12.1.7 Thickness: 26 Gauge (t = 0.018 in Min.)
- 12.1.8 Yield Strength: 47.2 ksi Minimum
- 12.1.9 Corrosion Resistance: Aluminum Zinc coated Steel per ASTM A792 AZ50  
Or Galvanized Steel per ASTM A653 G-90

**12.2 Hidden Fastener Clip:**

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

- 12.2.1 Material: Stainless Steel
- 12.2.2 Thickness: 12 Gauge
- 12.2.3 Nominal Dimension: 2.25" Long x 0.75" Wide
- 12.2.4 Corrosion Resistance: Stainless per ASTM A240

**12.3 Clip Fasteners:**

This fastener is used to attach the panel to the steel support at the panel seam

- 12.3.1 Type: HWH TEK 3 Self-drilling Screw
- 12.3.2 Size: #1/4" - 14  
1/2" Minimum penetration through support flange
- 12.3.3 Head: Hex head

**12.4 Intermediate Fasteners:**

This fastener is used to attach the interior face of the panel to the steel support

- 12.4.1 Type: Fab-Lock Screw
- 12.4.2 Size: #10 - 4 x 1"

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Date 02/04/2016  
NOA# 15-0820-05  
Miami Dade Product Control  
By *Healy A. M...*

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
ENGINEERING REPORT**

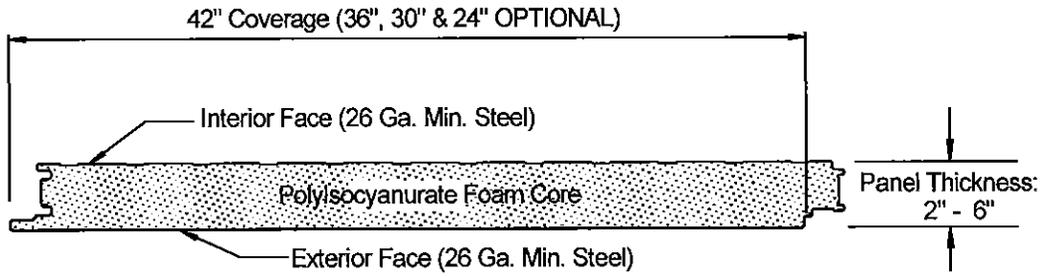
*J. L. Buckner*  
JAMES L. BUCKNER, P.E.  
FLORIDA P.E. #31242  
1/28/16

**CBUCK Engineering**  
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**MANUFACTURER:**  
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726 Summerhill Drive  
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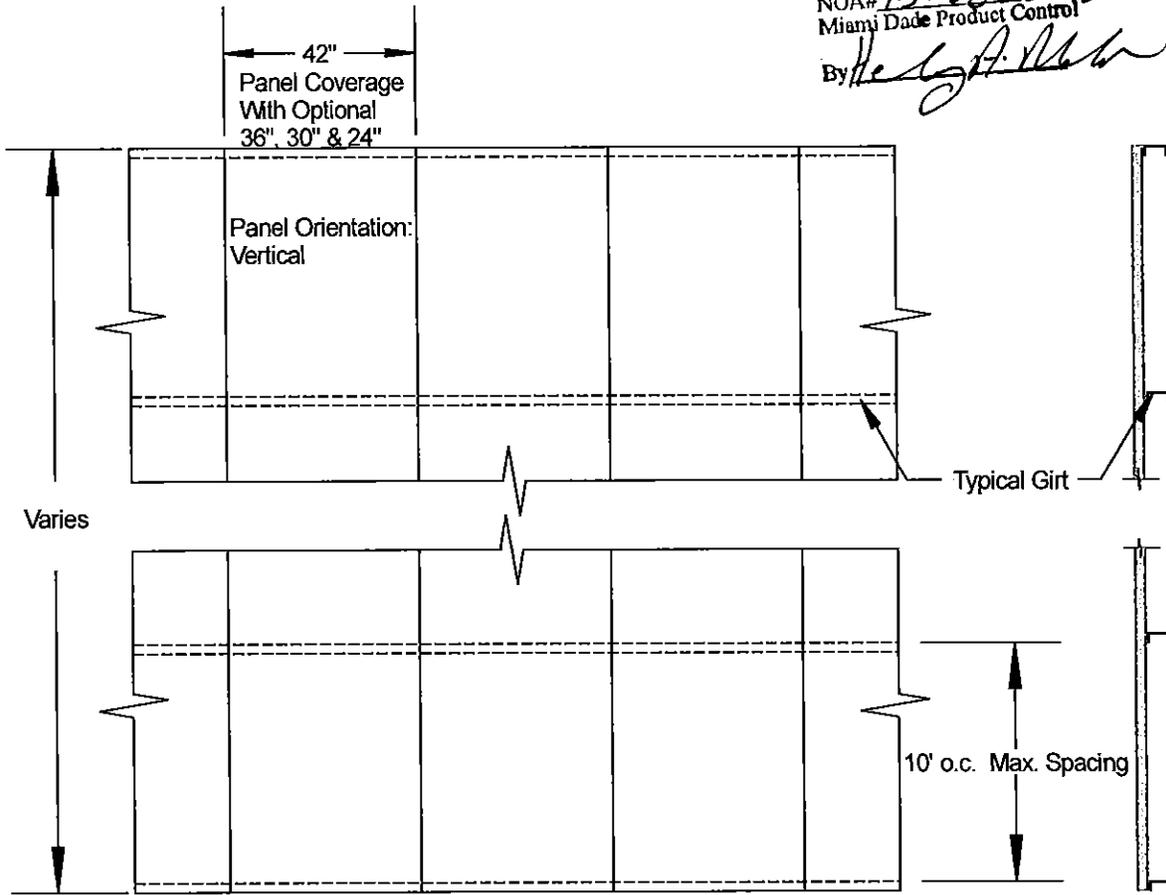
**KINGSPAN INSULATED PANELS, INC.**  
**"KS Series" INSTALLATION DRAWINGS**



**Typical Panel Profile**

Approved as complying with the  
 Florida Building Code  
 Date 02/04/2016  
 NOA# 15-0820.05  
 Miami Dade Product Control

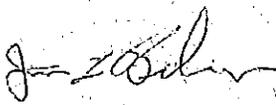
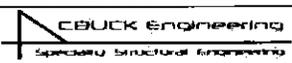
By *[Signature]*



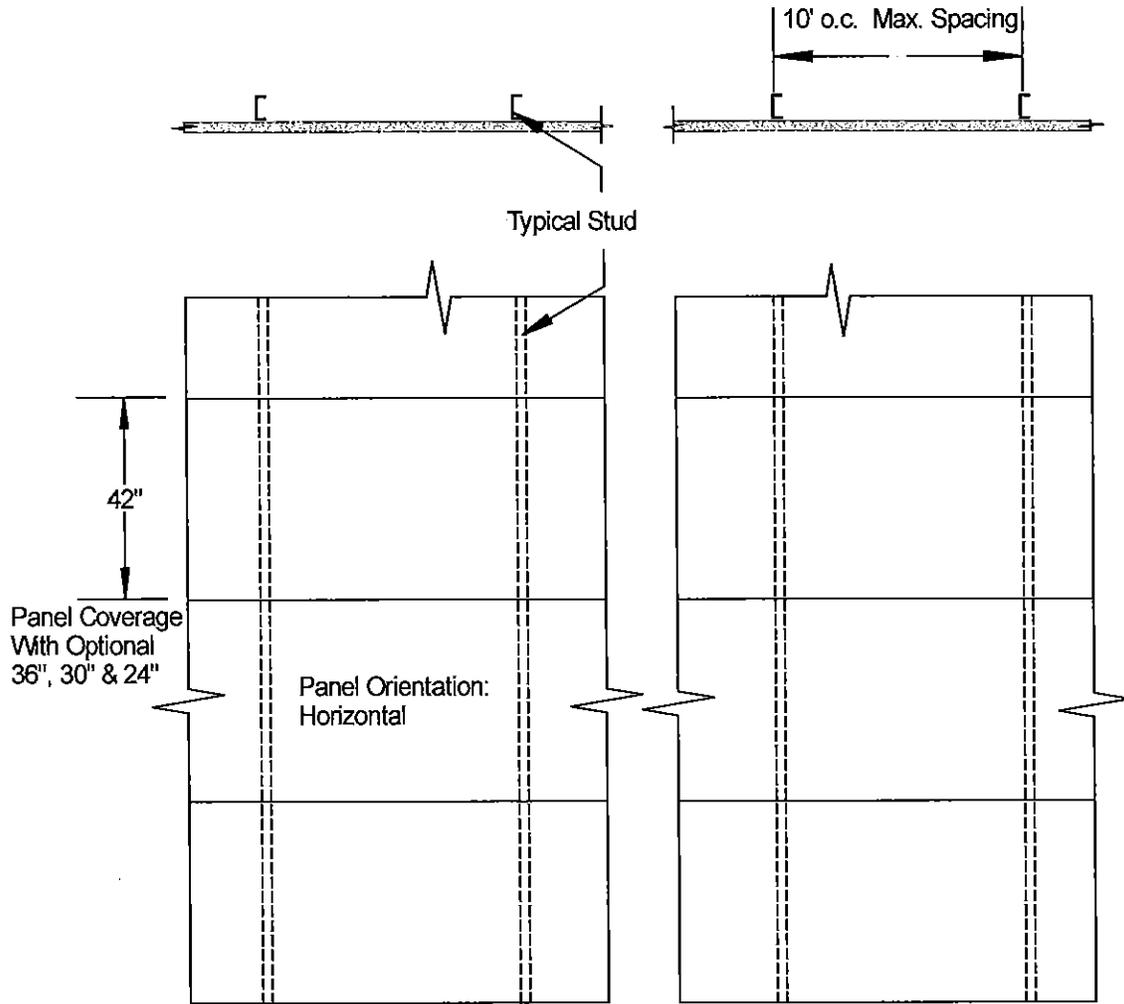
**Typical Elevation View**

**Typical Section View**

**Outside of Wall Assembly to Horizontal Supports**

 JAMES L. BUCKNER, P.E. FLORIDA P.E. #31242 1/28/16	KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL ENGINEERING REPORT		DATE: 10/8/15
	 CBUCK Engineering SPECIALTY STRUCTURAL ENGINEERING	MANUFACTURER: Kingspan Insulated Panels, Inc. 726 Summerhill Drive Deland, FL 32724	PAGE #: 6 OF 10
	CBUCK, Inc. COA #8064 www.cbuckinc.net (561) 491-9927 2637 E. Atlantic Blvd, # 34026 Pompano Beach, FL 33062		REPORT #: 14-143-KS Series-ER.1
			PROJECT #: 14-143
			DRAWN BY: YD REV. 2: 1/26/16

**KINGSPAN INSULATED PANELS, INC.**  
**"KS Series" INSTALLATION DRAWINGS**



**Typical Elevation View**  
**Outside of Wall Assembly to Vertical Supports**

Approved as complying with the  
 Florida Building Code  
 Date 02/04/2016  
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 Miami Dade Product Control

By [Signature]

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
 ENGINEERING REPORT**

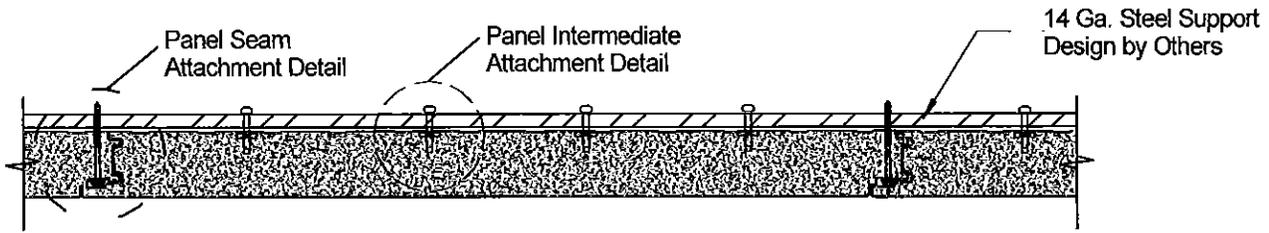
[Signature]  
**JAMES L. BUCKNER, P.E.**  
 FLORIDA P.E. #31242  
 1/28/16

**CBUCK Engineering**  
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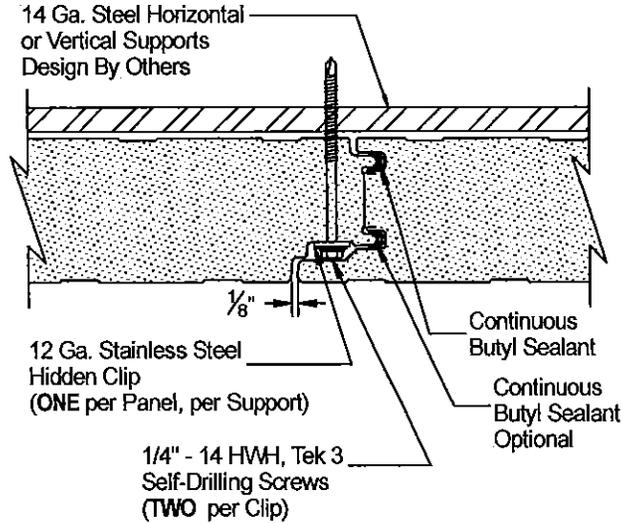
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**KINGSPAN INSULATED PANELS, INC.  
"KS Series" INSTALLATION DRAWINGS**



**Typical Panel Attachment for Both Horizontal & Vertical Supports**

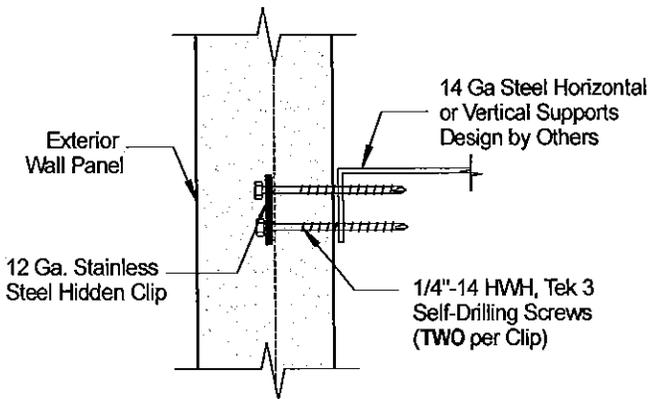


**Typical Panel Joint Section View**

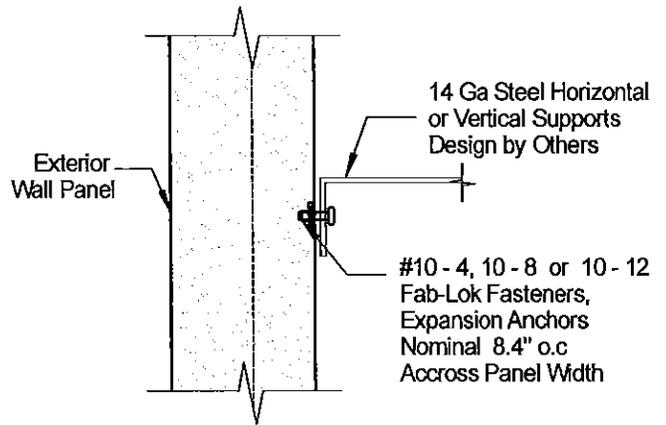
**Clip & Fasteners at Panel Seam to Both Horizontal & Vertical Supports**

Approved as complying with the  
Florida Building Code  
Date 02/04/2016  
NOA# 15-0820.05  
Miami Dade Product Control

By *[Signature]*



**Typical Side Section View  
Clip & Fasteners at Panel Seam to Support**



**Typical Side Section View  
Panel Intermediate Attachment Support**

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
ENGINEERING REPORT**

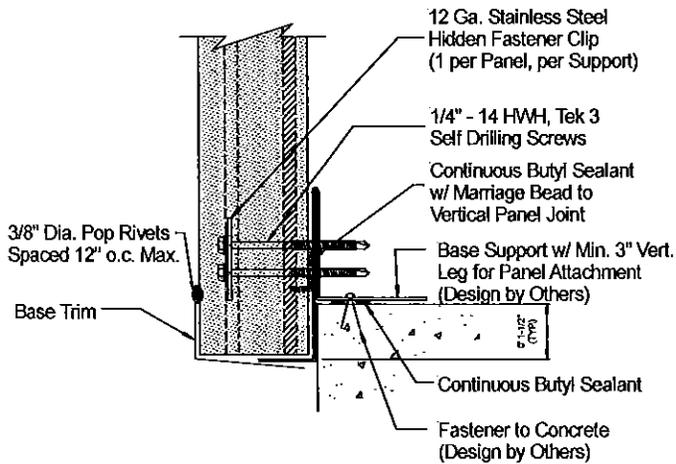
*[Signature]*  
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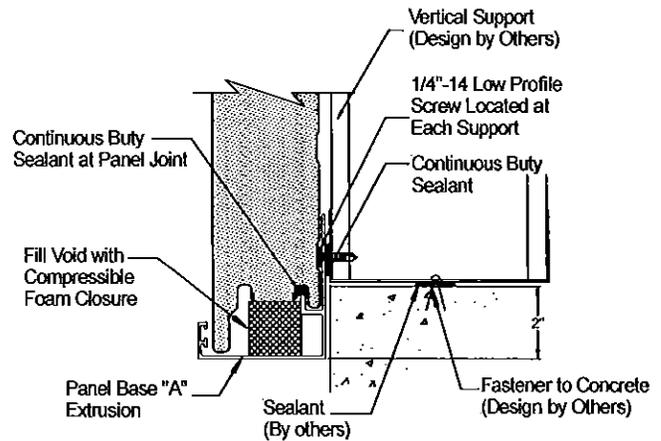
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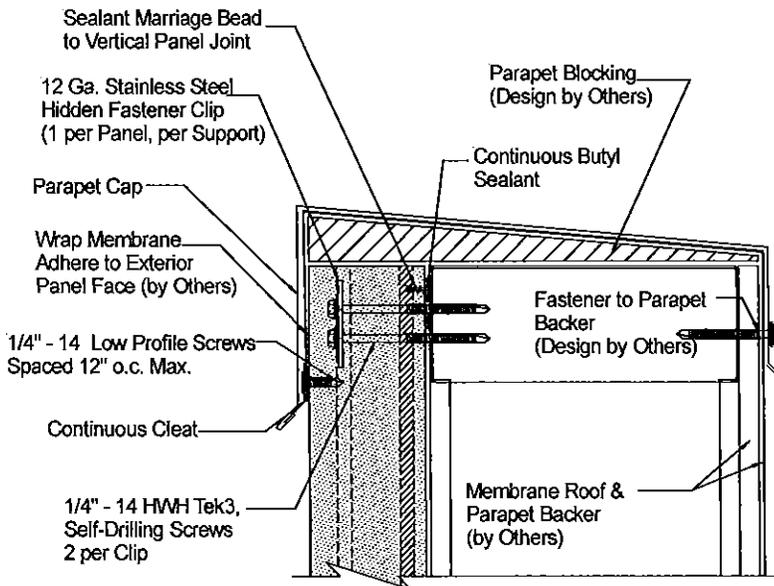
**KINGSPAN INSULATED PANELS, INC.**  
**"KS Series" INSTALLATION DRAWINGS**



**Typical Base condition**  
**For Panel Installed Vertically to Horizontal supports**



**Typical Base condition**  
**For Panel Installed Horizontally to Vertical supports**



**Typical Top condition**  
**For Panels Installed to Both Horizontal and Vertical Supports**

Approved as complying with the  
 Florida Building Code  
 Date 02/04/2016  
 NOA# 15-0820.05  
 Miami Dade Product Control

By *Healy A. Mc...*

**NOTES:**

1. SUPPLEMENTAL ATTACHMENT DETAILS DESIGNED BY OTHERS
2. REFER TO MANUFACTURER FOR FASTENER, CAULKING SPECIFICATIONS & SUPPLEMENTAL ATTACHMENT DETAILS

**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
 ENGINEERING REPORT**

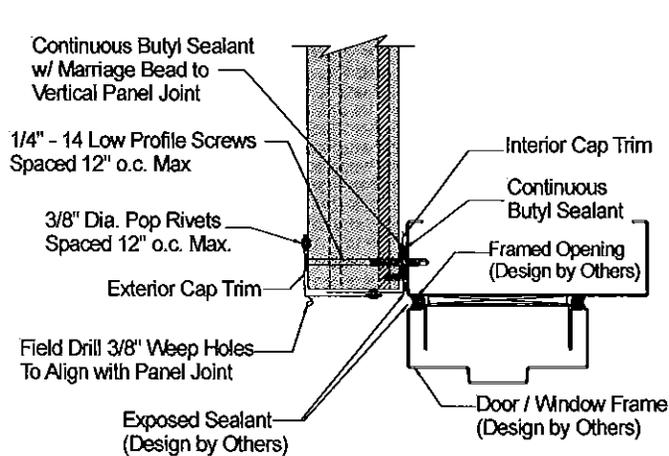
*James L. Buckner*  
**JAMES L. BUCKNER, P.E.**  
 FLORIDA P.E. #31242  
 1/28/16

**CBUCK Engineering**  
 Specialty Structural Engineering  
 CBUCK, Inc. COA #8064  
 www.cbuckinc.net  
 (561) 491-9927  
 2637 E. Atlantic Blvd, # 34026  
 Pompano Beach, FL 33062

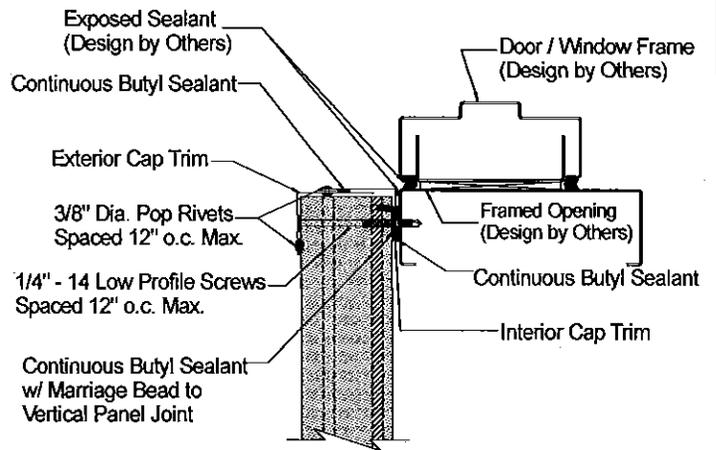
**MANUFACTURER:**  
 Kingspan Insulated Panels, Inc.  
 726 Summerhill Drive  
 Deland, FL 32724

DATE:	10 / 8 / 15
PAGE #:	9 OF 10
REPORT #:	14-143-KS Series-ER.1
PROJECT #:	14-143
DRAWN BY:	YD
REV. 2:	1 / 26 / 16

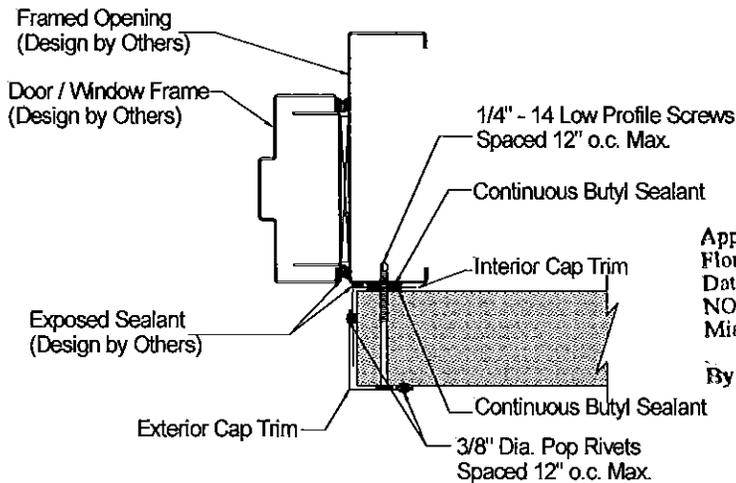
**KINGSPAN INSULATED PANELS, INC.**  
**"KS Series" INSTALLATION DRAWINGS**



**Typical Head Condition**



**Typical Sill Condition**



**Typical Jamb Condition**

Approved as complying with the  
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By [Signature]

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**KINGSPAN "KS SERIES" INSULATED STEEL WALL PANEL  
 ENGINEERING REPORT**

[Signature]  
**JAMES L. BUCKNER, P.E.**  
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