



**MIAMI-DADE COUNTY**  
**BUILDING CODE COMPLIANCE OFFICE (BCCO)**  
**PRODUCT CONTROL DIVISION**

**MIAMI-DADE COUNTY, FLORIDA**  
**METRO-DADE FLAGLER BUILDING**  
**140 WEST FLAGLER STREET, SUITE 1603**  
**MIAMI, FLORIDA 33130-1563**  
**(305) 375-2901 FAX (305) 372-6339**

**NOTICE OF ACCEPTANCE (NOA)**

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

**Kingspan Insulated Panels, Inc.**  
**720 Marion Road**  
**Columbus, OH 42307**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: Designwall 4000 Wall Panel System**

**APPROVAL DOCUMENT:** Engineering Report No. **08-336DW4000Series**, titled "Designwall 4000 Series Wall Panel System", sheets 1 through 17 of 17, dated 11/10/09, 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 Division.

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

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state 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 **revises NOA # 09-0312.10** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*[Handwritten Signature]*  
 12/2/09

**NOA No. 09-0713.02**  
**Expiration Date: May 20, 2014**  
**Approval Date: December 23, 2009**  
**Page 1**

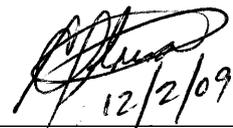
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Engineering Report No. **08-336DW4000Series**, titled "Designwall 4000 Series Wall Panel System", sheets 1 through 17 of 17, dated 11/10/09, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.

**B. TESTS "Submitted under NOA # 09-0312.10"**

1. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of Designwall 4000 Insulated Exterior Wall Panels on Studs at 32" o.c., prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T103-08**, dated 01/11/08, signed and sealed by Daniel G. Farabaugh, P.E.
2. 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  
along with marked-up drawings and installation diagram of Designwall 4000 Insulated Exterior Wall Panels on Studs at 32" o.c., prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T229-08**, dated 07/25/08, signed and sealed by Daniel G. Farabaugh, P.E.
3. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of Designwall 4000 Insulated Exterior Wall Panels on Studs at 48" o.c., prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T102-08**, dated 01/07/08, signed and sealed by Daniel G. Farabaugh, P.E.
4. 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  
along with marked-up drawings and installation diagram of Designwall 4000 Insulated Exterior Wall Panels on Studs at 48" o.c., prepared by Farabaugh Engineering and Testing, Inc., Test Report No. **T228-08**, dated 07/25/08, signed and sealed by Daniel G. Farabaugh, P.E.



12/2/09

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 09-0713.02

Expiration Date: May 20, 2014  
Approval Date: December 23, 2009

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**C. CALCULATIONS “Submitted under NOA # 09-0312.10”**

1. Engineering analysis and calculations, prepared by C-Buck Engineering, dated 03/06/09, signed and sealed by James L. Buckner, P.E.

**D. QUALITY ASSURANCE**

1. Miami Dade Building Code Compliance Office (BCCO)

**E. MATERIAL CERTIFICATIONS “Submitted under NOA # 09-0312.10”**

1. Test report on Ignition Properties per ASTM D1929 and Surface Burning Characteristics per ASTM E84 of Designwall 4000 Insulated Panels, prepared by FM Approvals, Project ID **3026121**, dated 06/12/06, signed by R. P. Ferron, P.E.

**F. STATEMENTS “Submitted under NOA # 09-0312.10”**

1. Statement letter of code conformance issued by C-Buck Engineering, dated 09/25/08, signed and sealed by James L. Buckner, P.E.
2. Statement letter of no financial interest issued by C-Buck Engineering, dated 09/25/08, signed and sealed by James L. Buckner, P.E.



12/2/09

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 09-0713.02  
Expiration Date: May 20, 2014  
Approval Date: December 23, 2009

**Engineering Report & Drawings**  
*of*  
**Kingspan Insulated Panels, Inc.**  
**dba Kingspan Benchmark**  
**Designwall 4000 Series Wall Panel System**  
**Wall Assembly**  
*for*  
**Miami-Dade Notice of Acceptance**

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

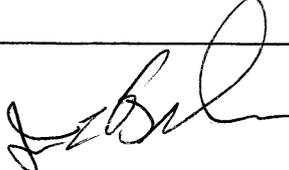
**Product: Designwall 4000 Series Wall Panel System**  
**Face & Liner Material: Steel**  
**Core Material: Foam**  
**Panel Thickness: 2 in. & 3 in.**

**Prepared by:**  
**James L. Buckner, P.E.**  
Florida Professional Engineer # 31242  
Project Manager: Youry Demosthenes  
Report No.: 08-336DW4000Series  
Date: 11 / 10 / 09

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Miami Dade Product Control  
Division

  
**JAMES L. BUCKNER, P.E.**  
FLORIDA P.E. #31242  
11/10/09

**TITLE: ENGINEERING REPORT**

 **CBUCK Engineering**  
COA #8064

CBUCK, Inc.  
1334 S. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

**MANUFACTURER:**

Kingspan Insulated Panels, Inc.  
dba Kingspan-Benchmark  
720 Marion Road  
Columbus, Ohio 43207

**DATE:** 11/10/09

**PAGE #:** 1 OF 17

**PROJECT #:** 08-336

**DRAWN BY:** YD

**REVISIONS:** 3

**1.0 Product:**

- 1.1 Manufacturer:** Kingspan Insulated Panels, Inc. dba Kingspan Benchmark
- 1.2 Product Name:** Designwall 4000 Series Wall Panel System
- 1.3 Category:** Panels
- 1.4 Subcategory:** Wall

**2.0 Evaluation Scope:**

**2.1 Evaluation Criteria:**

- 2.1.1** Florida Building Code (FBC) 2007
- 2.1.2** Code Section: High Velocity Hurricane Zone (HVHZ)
- 2.1.3** Miami-Dade Building Code Compliance Office (BCCO) Checklist

**2.2 Properties Evaluated:**

- 2.2.1** Wind Resistance Properties
  - 2.2.1.1 Air Infiltration
  - 2.2.1.2 Uniform Static Air Pressure
  - 2.2.1.3 Water Resistance
  - 2.2.1.4 Large Missile Impact
  - 2.2.1.5 Cyclic Wind Pressure
- 2.2.2** Fire and Flame Properties
  - 2.2.2.1 Flame Spread Index
  - 2.2.2.2 Smoke Developed Index
  - 2.2.2.3 Spontaneous Ignition Temperature
  - 2.2.2.4 Flash Ignition Temperature

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**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:**

Designwall 4000 Series panels are steel face and foam core used as nonbearing exterior wall panels.

**4.0 Assembly Description:**

**4.1 General:**

The Designwall 4000 Series panel systems are factory assembled sandwich panels with metal facings and a foam plastic core. These panels are applied horizontally. The panels have a tongue in groove interlocking edge. The panels are anchored to supports with clips and screws.

**4.2 Panel Dimensions:**

- 4.2.1** Length: 1 ft. - 30 ft.
- 4.2.2** Width: 24 in. & 30 in.
- 4.2.3** Thickness: 2 in. & 3 in.

**5.0 Support:**

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

- 5.1** Type: Vertical Studs
- 5.2** Material: Steel
- 5.3** Thickness: 16 Ga. (0.062 in)
- 5.4** Spacing: 32 in. o.c. OR 48 in. o.c. (Refer to Performance Section 6.0 of this Report)

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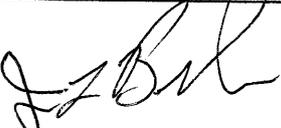
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11/10/09

**6.0 Performance:**

**6.1 2 in. to 3 in. Thick Panel to Support Spaced 32 in. o.c**

**6.1.1 Wind Resistance:**

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| Design Pressure | <b>Positive</b> | <b>+ 76 psf</b> |
|                 | <b>Negative</b> | <b>- 76 psf</b> |

Based on: a) Vertical Studs spaced 32 in. o.c.  
b) Clip located at each horizontal joint at each vertical stud

**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:**

|                       |         |
|-----------------------|---------|
| Large Missile Impact: |         |
| Standard:             | TAS 201 |
| Results               | Passed  |

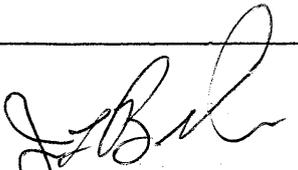
**6.1.5 Fire Classification:**

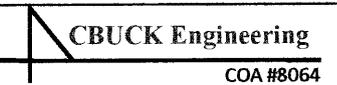
|                           |                   |               |
|---------------------------|-------------------|---------------|
| Standard:                 | ASTM D1929        |               |
| Self Ignition Temperature | Required > 650° F | Tested 856° F |

|                        |                |            |
|------------------------|----------------|------------|
| Standard:              | ASTM E 84      |            |
| Flame Spread Index:    | Required < 75  | Tested 25  |
| Smoke Developed Index: | Required < 450 | Tested 250 |

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CBUCK, Inc.  
1334 S. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

MANUFACTURER:  
**Kingspan Insulated Panels, Inc.**  
dba Kingspan-Benchmark  
720 Marion Road  
Columbus, Ohio 43207

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**6.2 2 in. to 3 in. Thick Panel to Support Spaced 48 in. o.c**

**6.2.1 Wind Resistance:**

|                 |                 |                 |
|-----------------|-----------------|-----------------|
| Design Pressure | <b>Positive</b> | <b>+ 53 psf</b> |
|                 | <b>Negative</b> | <b>- 53 psf</b> |

Based on: a) Vertical Studs spaced 48 in. o.c.  
b) Clip located at each horizontal joint at each vertical stud

**6.2.2 Air Infiltration:**

|          |         |
|----------|---------|
| Standard | TAS 202 |
| Results: | Passed  |

**6.2.3 Water Infiltration:**

|           |         |
|-----------|---------|
| Standard: | TAS 202 |
| Results:  | Passed  |

**6.2.4 Impact Rating:**

|                       |         |
|-----------------------|---------|
| Large Missile Impact: |         |
| Standard:             | TAS 201 |
| Results               | Passed  |

**6.2.5 Fire Classification:**

|                            |                   |               |
|----------------------------|-------------------|---------------|
| Standard:                  | ASTM D1929        |               |
| Self Ignition Temperature: | Required > 650° F | Tested 856° F |
| Standard:                  | ASTM E 84         |               |
| Flame Spread Index:        | Required < 75     | Tested 25     |
| Smoke Developed Index:     | Required < 450    | Tested 250    |

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FLORIDA P.E. #31242  
11/10/09

**C**BUCK Engineering  
COA #8064  
CBUCK, Inc.  
1334 S. Killian Dr., Ste 4  
W. Palm Beach, FL 33403  
(561) 491-9927

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**7.0 Installation:**

Each panel shall be fastened at the horizontal joints to the vertical supports with one concealed fastening clip #8100-4200 (per section 12.4) and two #14 fasteners (per section 12.10). All fasteners shall penetrate the steel support by ¼ in minimum. Refer to Drawings on pages 8 through 17 of this report for supplemental installation guide.

**8.0 Limitations of Use:**

- 8.1 The panel supports shall be 16 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.

**9.0 Code Compliance**

9.1 Product meets the High Velocity Hurricane Zone (HVHZ) Requirements of the Florida Building Code (FBC) 2007 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 & 203, Large Missile Impact Test & Cyclic Wind Pressure Loading, respectively.

For: Designwall 4000, Panel to Supports Spaced 32 in. o.c.  
 By: Farabaugh Engineering and Testing, Inc.  
 Report No.: T103-08 Dated: 1/11/08

11.2 TAS 202, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test.

For: Designwall 4000, Panel to Supports Spaced 32 in. o.c.  
 By: Farabaugh Engineering and Testing, Inc.  
 Report No.: T229-08 Dated: 7/25/08

11.3 TAS 201 & 203, Large Missile Impact Test & Cyclic Wind Pressure Loading, respectively.

For: Designwall 4000, Panel to Supports Spaced 48 in. o.c.  
 By: Farabaugh Engineering and Testing, Inc.  
 Report No.: T102-08 Dated: 1/7/08

11.4 TAS 202, Air Infiltration Test, Uniform Static Air Pressure Test & Water Resistant Test.

For: Designwall 4000, Panel to Supports Spaced 48 in. o.c.  
 By: Farabaugh Engineering and Testing, Inc.  
 Report No.: T228-08 Dated: 7/25/08

11.5 ASTM D1929 & ASTM E 84, Self-Ignition Temperature & Flame Spread Index /Smoke Density

For: Designwall 4000, 3" Thick Panel  
 By: Factory Mutual  
 Project ID.: 3026121 Dated: 6/12/06

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**CBUCK Engineering**  
 COA #8064  
 CBUCK, Inc.  
 1334 S. Killian Dr., Ste 4  
 W. Palm Beach, FL 33403  
 (561) 491-9927

**MANUFACTURER:**  
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 dba Kingspan-Benchmark  
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 11/10/09

**12.0 Product Components:**

**12.1 Panel Core**

The Core is a foamed-in-place Polyisocyanurate rigid foam insulation

**12.1.1 Density of Foam:** 3.0 pcf

**12.2 Panel Face (exterior face):**

The panel has a steel face and liner. The panel faces are available in various finishes.

**12.2.1 Material:** Steel  
**12.2.2 Yield Strength:** 33 ksi  
**12.2.3 Corrosion Resistance:** Galvanized G90 or Galvalume  
**12.2.4 Material Standard:** ASTM A653 or ASTM A792 respectively  
**12.2.5 Thickness:** 22 Gauge

**12.3 Panel Liner (interior face):**

The panel has a steel face and liner. The panel liners are available in various finishes.

**12.3.1 Material:** Steel  
**12.3.2 Yield Strength:** 33 ksi  
**12.3.3 Corrosion Resistance:** Galvanized G90 or Galvalume  
**12.3.4 Material Standard:** ASTM A653 or ASTM A792 respectively  
**12.3.5 Thickness:** 24 Gauge

**12.4 Concealed Fastening Clip:**

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

**12.4.1 Part Number:** 8100.4200  
**12.4.2 Material:** Steel  
**12.4.3 Thickness:** 16 Gauge  
**12.4.4 Yield Strength:** 150 ksi  
**12.4.5 Corrosion Resistance:** Zinc Plated

**12.5 Starter Clip:**

This is the standard clip used to secure the base of the bottom panel to the steel support

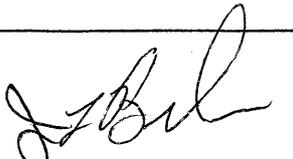
**12.5.1 Part Number:** 8100.1000  
**12.5.2 Material:** Steel  
**12.5.3 Thickness:** 12 Gauge  
**12.5.4 Yield Strength:** 33 ksi  
**12.5.5 Corrosion Resistance:** Zinc Plated

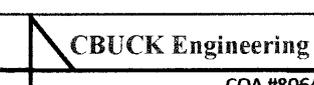
**12.6 Back-Up Plate:**

This is the standard plate used over the base flashing to cover the gap at the vertical joints.

**12.6.1 Material:** Steel  
**12.6.2 Thickness:** 24 Gauge  
**12.6.3 Yield Strength:** 33 ksi  
**12.6.4 Corrosion Resistance:** Galvanized G90

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FLORIDA P.E. #31242  
11/10/09

|  |   |
|--|---|
| TITLE: ENGINEERING REPORT  |   |
| <br>COA #8064 | MANUFACTURER:   |
| CBUCK, Inc.<br>1334 S. Killian Dr., Ste 4<br>W. Palm Beach, FL 33403<br>(561) 491-9927           | <b>Kingspan Insulated Panels, Inc.</b><br>dba Kingspan-Benchmark<br>720 Marion Road<br>Columbus, Ohio 43207 |
| DATE:  | 11/10/09  |
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| REVISIONS:   | 3   |

**12.7 Base Flashing:**

This is the standard flashing used for anchoring the bottom end wall panels to the supports.

- 12.7.1 Material: Steel
- 12.7.2 Thickness: 22 Gauge
- 12.7.3 Yield Strength: 33 ksi
- 12.7.4 Corrosion Resistance: Galvanized G90

**12.8 Interlock Joint Gasket:**

This is a gasket that weather seals the horizontal interlock joint of the panels.

- 12.8.1 Manufacturer: Advanced Elastomer Systems
- 12.8.2 Part Number: 9320.2000
- 12.8.3 Material: Santoprene Thermoplastic Rubber

**12.9 Vertical Joint Gasket (VJ-1) Optional:**

This is a gasket that finishes the appearance of the vertical butt joints of the panels.

- 12.9.1 Manufacturer: Advanced Elastomer Systems
- 12.9.2 Part Number: 9700.2100
- 12.9.3 Material: Santoprene Thermoplastic Rubber

**12.10 Fasteners:**

- 12.10.1 Manufacturer: Atlas Bolt and Screw Company
- 12.10.2 Part Number: 14995
- 12.10.3 Type: Self Tapping
- 12.10.4 Size : #14 – 10 x 2-1/2
- 12.10.5 Head: Hex head
- 12.10.6 Corrosion Resistance: Zinc Plated

**12.11 Sealant:**

Non-Skinning Butyl Sealant is used for primary rear seal of the panel.

- 12.11.1 Manufacturer : Tremco
- 12.11.2 Product: JS-773

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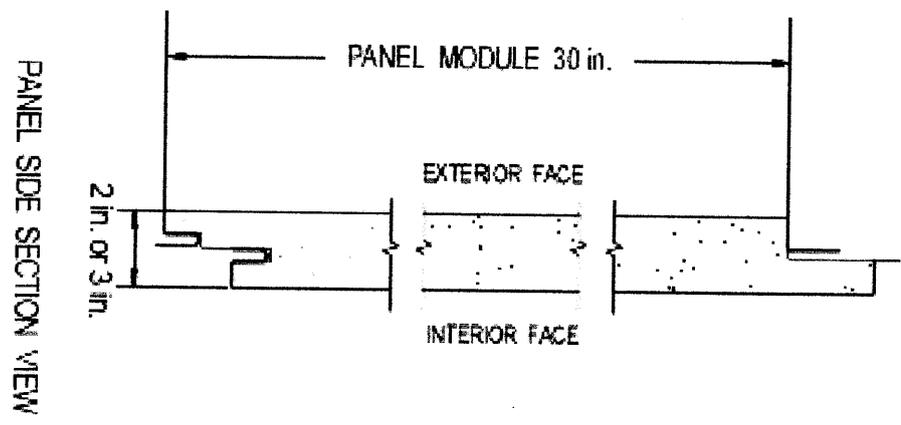
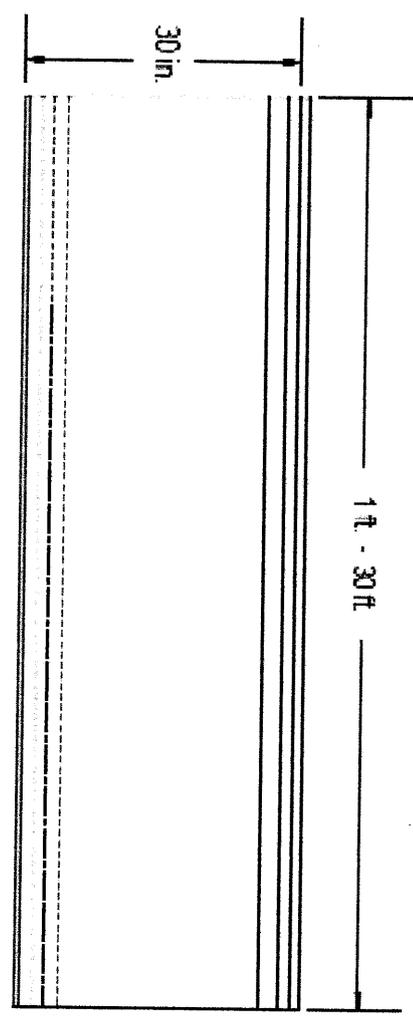
[Signature]  
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 FLORIDA P.E. #31242  
 11/10/09

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 W. Palm Beach, FL 33403  
 (561) 491-9927

MANUFACTURER:  
**Kingspan Insulated Panels, Inc.**  
 dba Kingspan-Benchmark  
 720 Marion Road  
 Columbus, Ohio 43207

DATE: 11/10/09  
 PAGE #: 7 OF 17  
 PROJECT #: 08-336  
 DRAWN BY: YD  
 REVISIONS: 3

DESIGNWALL 4000 SERIES  
PANEL MODULE 30 in.



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 09-0713, 02  
Expiration Date 03/20/2014  
By [Signature]  
Miami Dade Product Control  
Division

TITLE: DESIGNWALL 4000 SERIES PANEL, 30 in. MODULE

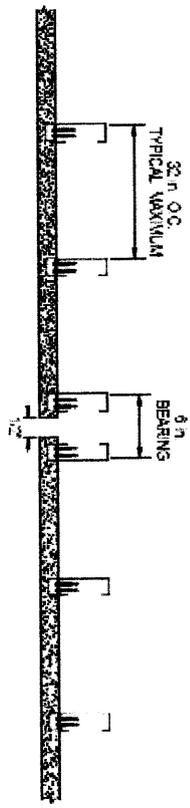
*J. L. Buckner*  
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FLORIDA P.E. #31242  
11/10/09

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COA #8064  
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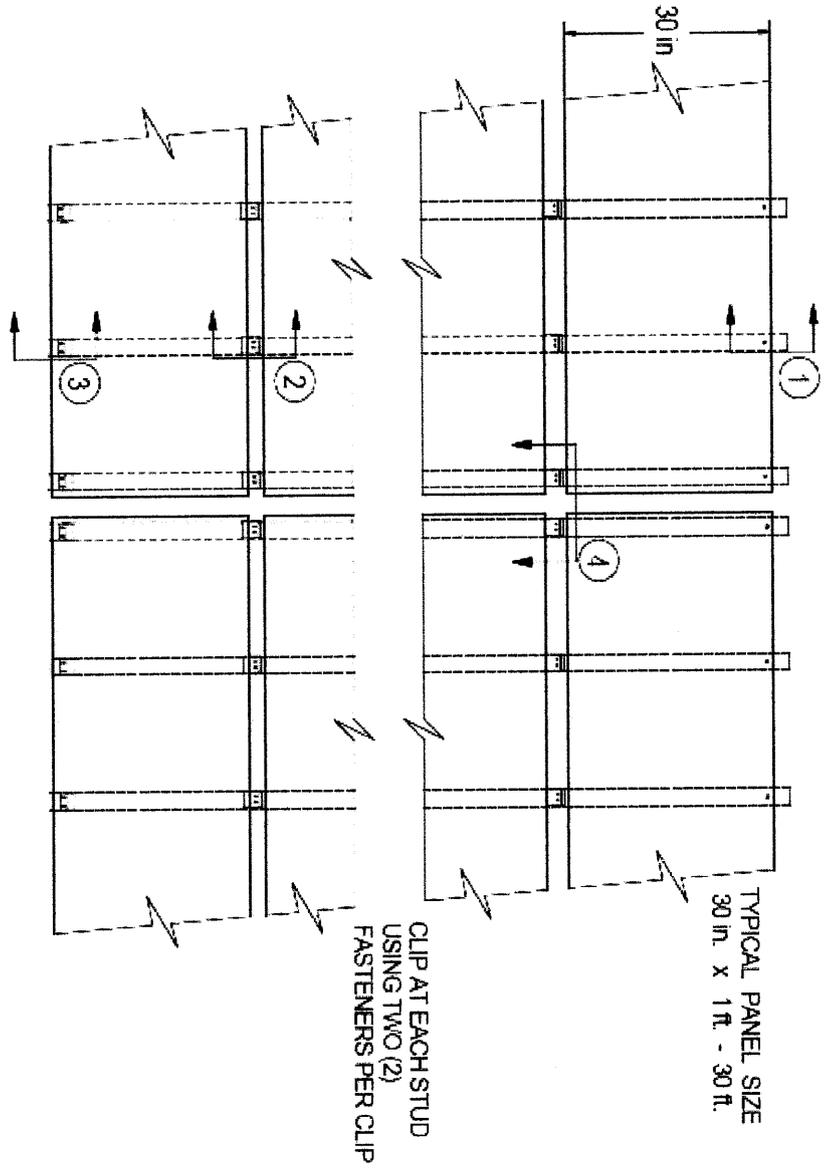
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# DESIGNWALL 4000 SERIES, 30 in. MODULE PANEL ASSEMBLY



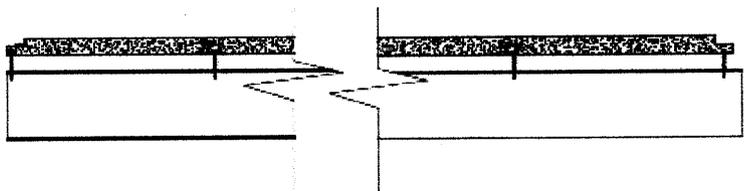
TOP SECTION VIEW



TYPICAL ELEVATION VIEW  
OUTSIDE OF WALL ASSEMBLY

TYPICAL PANEL SIZE  
30 in. x 1 ft. - 30 ft.

CLIP AT EACH STUD  
USING TWO (2)  
FASTENERS PER CLIP



SIDE SECTION VIEW

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Acceptance No. 09-0713.02  
Expiration Date 05/20/2014  
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11/10/09

TITLE: DESIGNWALL 4000, 30 in. MODULE, PANEL ASSEMBLY

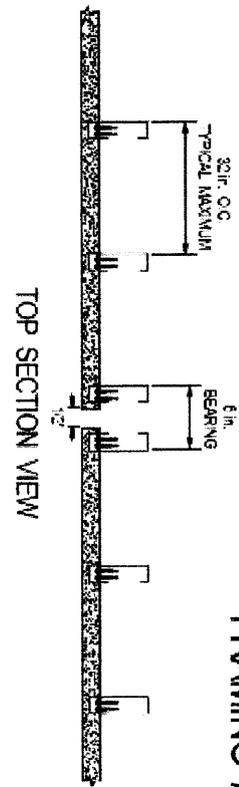
[Signature]  
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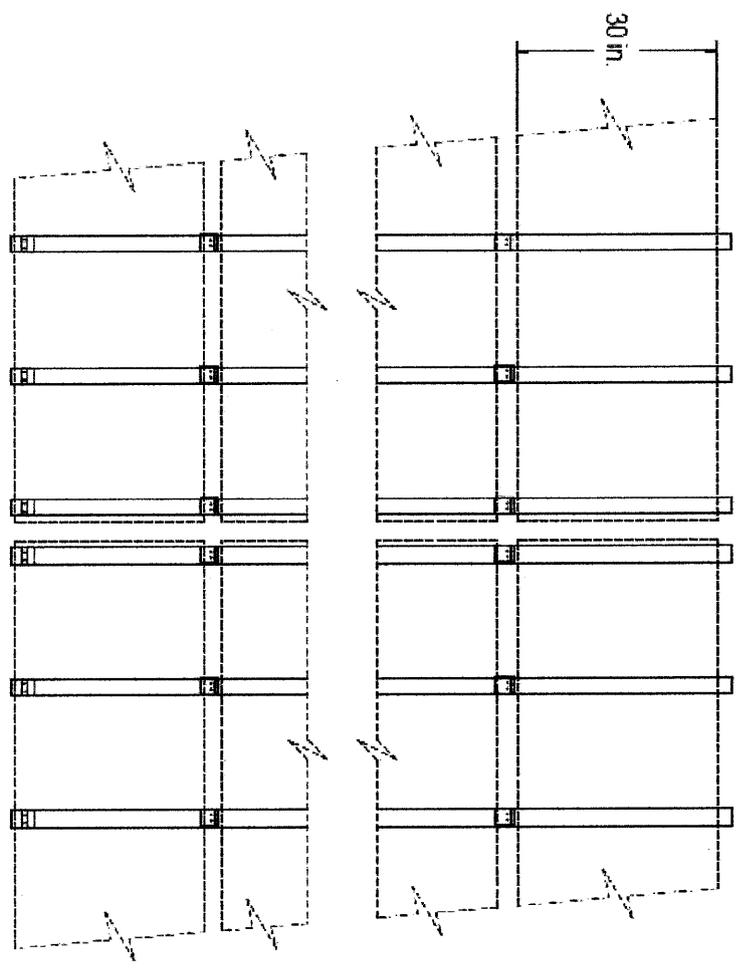
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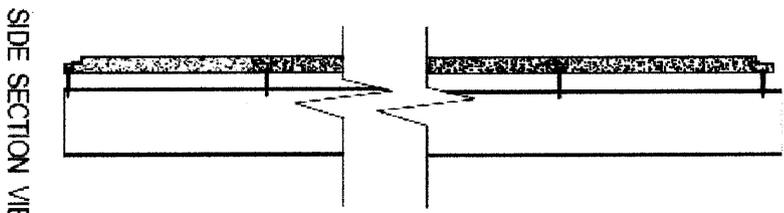
DESIGNWALL 4000 SERIES, 30 in. MODULE  
FRAMING ASSEMBLY



TOP SECTION VIEW



TYPICAL FRAMING ELEVATION  
VERTICAL STEEL SUPPORT  
FROM OUTSIDE VIEW



SIDE SECTION VIEW

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TITLE: DESIGNWALL 4000, 30 in. MODULE, FRAMING ASSEMBLY

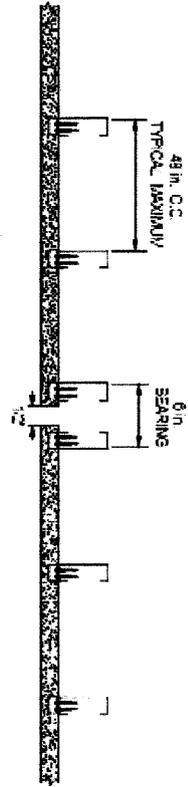
*[Signature]*  
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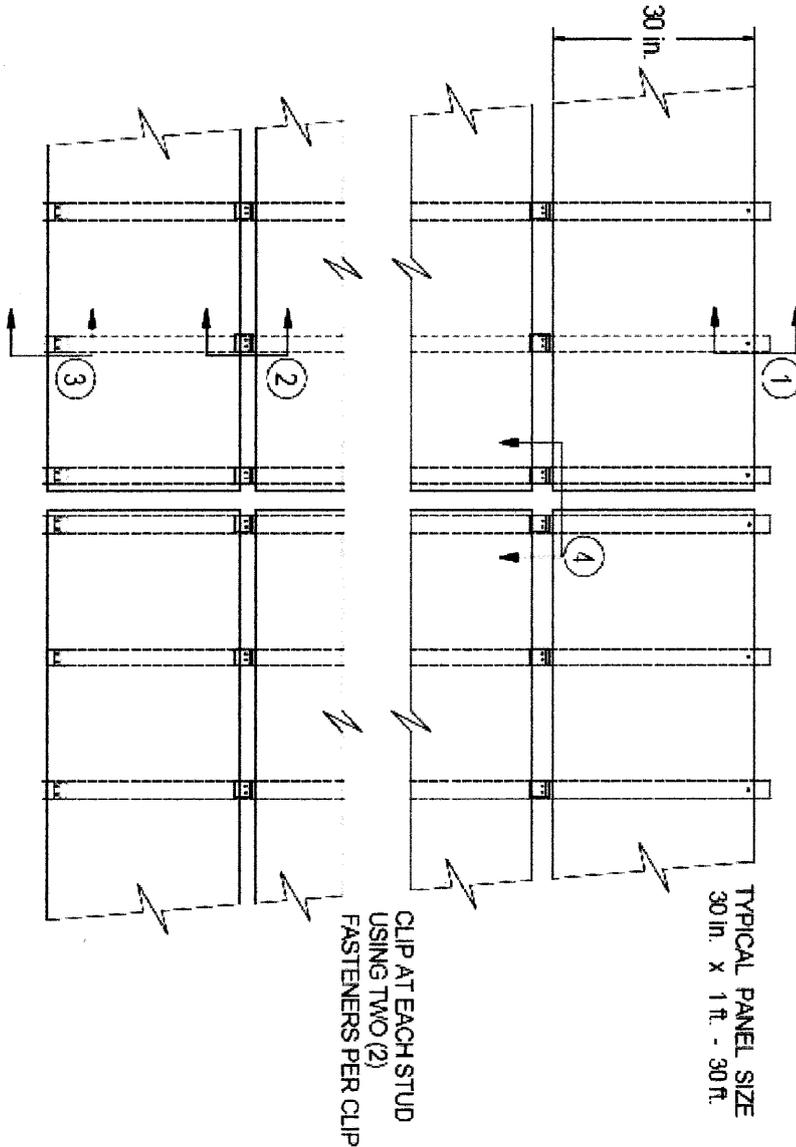
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# DESIGNWALL 4000 SERIES, 30 in. MODULE PANEL ASSEMBLY

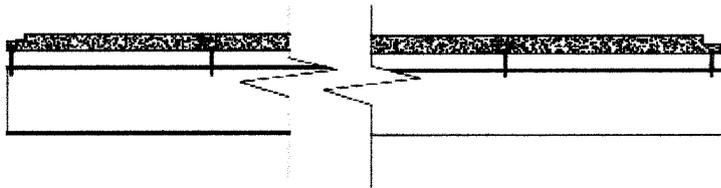


TOP SECTION VIEW



TYPICAL ELEVATION VIEW  
OUTSIDE OF WALL ASSEMBLY

SIDE SECTION VIEW



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TITLE: DESIGNWALL 4000, 30 in. MODULE, PANEL ASSEMBLY

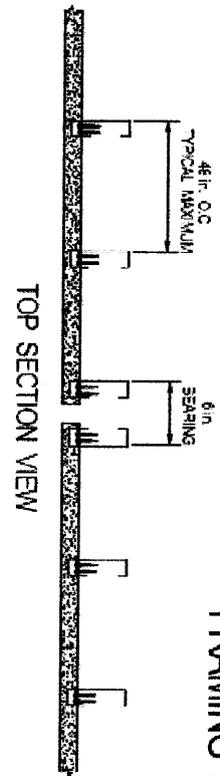
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FLORIDA P.E. #31242  
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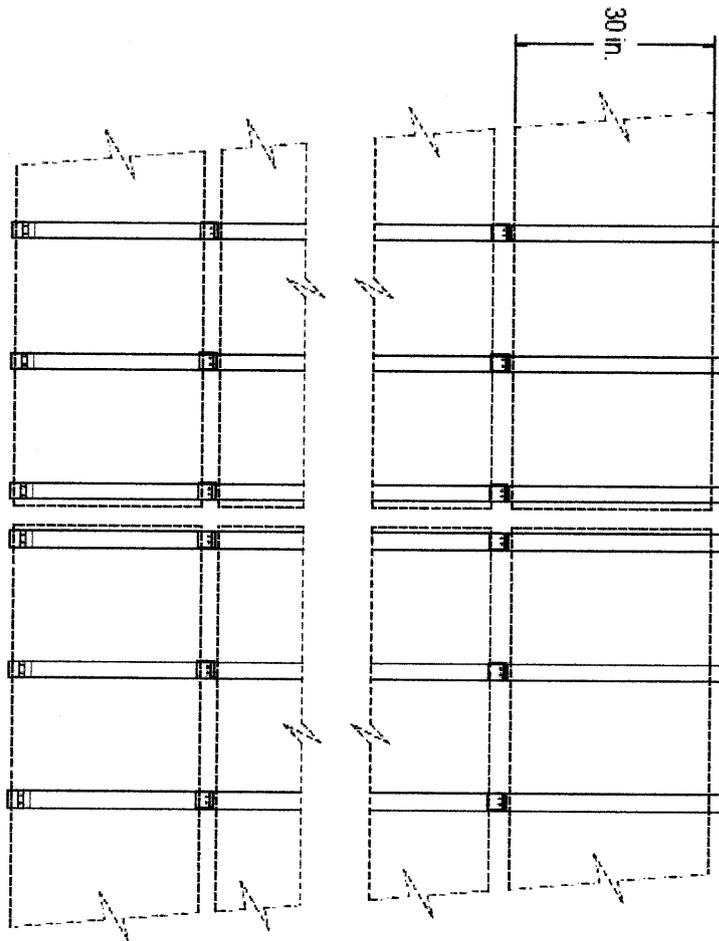
MANUFACTURER:  
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PAGE #: 11 OF 17  
PROJECT #: 08-336  
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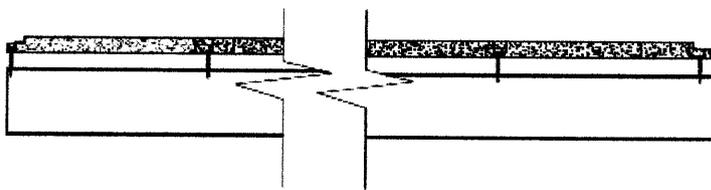
DESIGNWALL 4000 SERIES, 30 in. MODULE  
FRAMING ASSEMBLY



TOP SECTION VIEW



TYPICAL FRAMING ELEVATION  
VERTICAL STEEL SUPPORT  
FROM OUTSIDE VIEW



SIDE SECTION VIEW

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TITLE: DESIGNWALL 4000, 30 in. MODULE, FRAMING ASSEMBLY

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COA #8064

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W. Palm Beach, FL 33403  
(561) 491-9927

MANUFACTURER:

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720 Marion Road  
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PROJECT #: 08-336

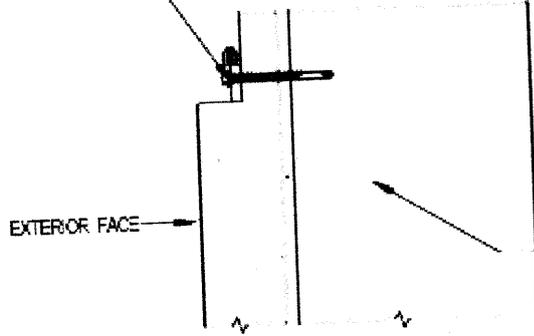
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*[Signature]*  
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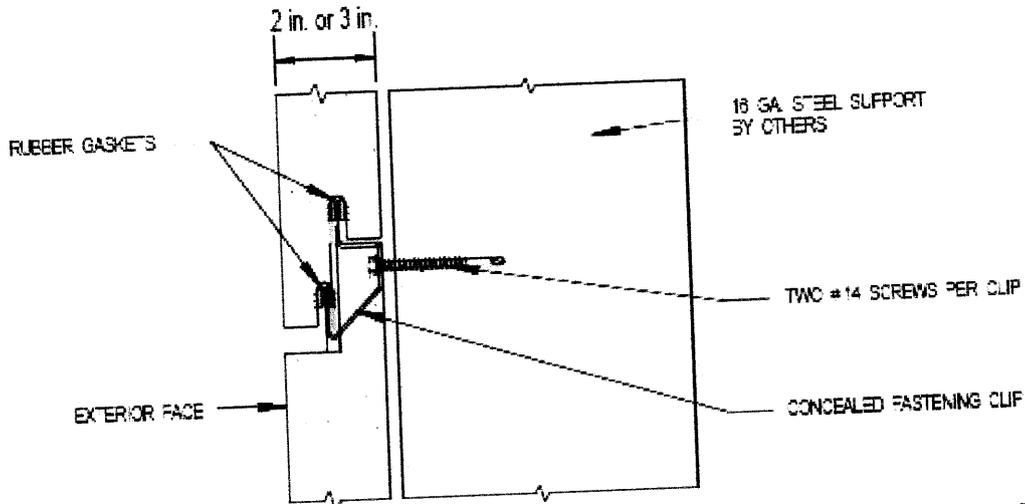
STRUCTURAL ATTACHMENT DETAILS  
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

TWO #14 SCREWS  
THROUGH PANEL  
AT EACH SUPPORT



16 GA. STEEL SUPPORT  
BY OTHERS

TYPICAL TOP OF WALL PANEL  
DETAIL 1



16 GA. STEEL SUPPORT  
BY OTHERS

TWO #14 SCREWS PER CLIP

CONCEALED FASTENING CLIP

TYPICAL HORIZONTAL JOINT  
DETAIL 2

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JAMES L. BUCKNER, P.E.  
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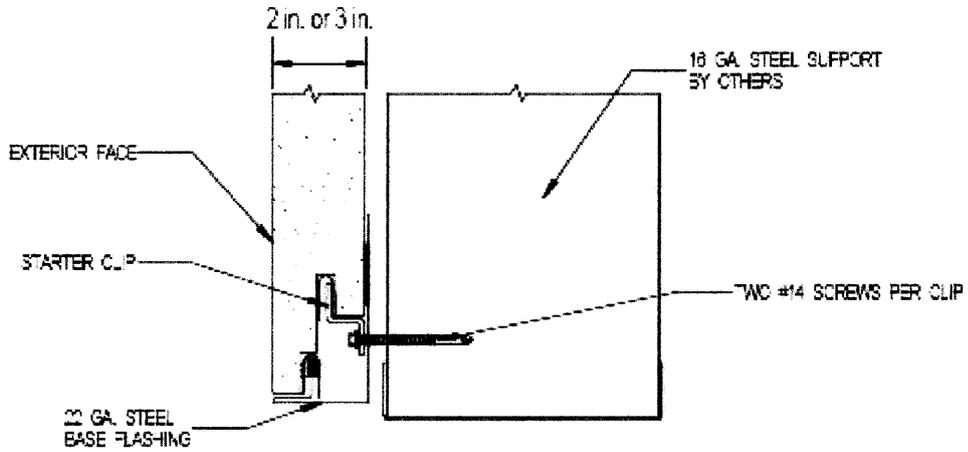
TITLE: STRUCTURAL ATTACHMENT DETAILS FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

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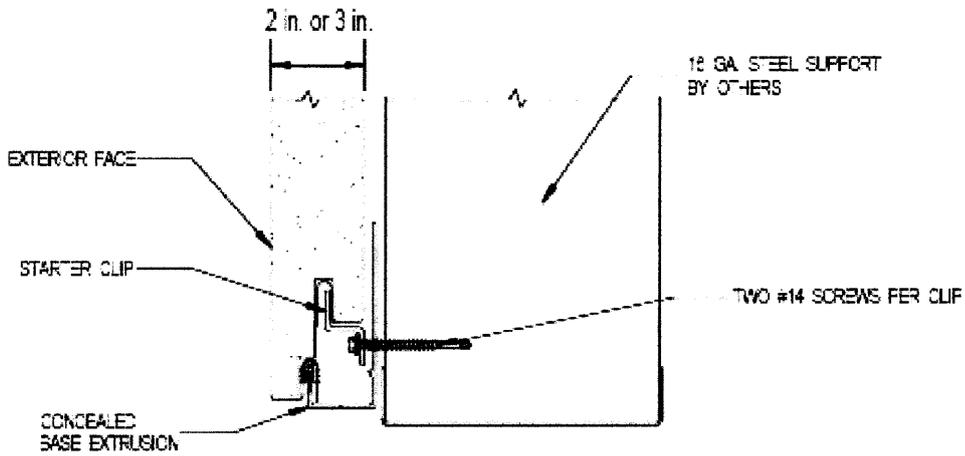
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**STRUCTURAL ATTACHMENT DETAILS  
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)**



TYPICAL BASE OF WALL PANEL  
DETAIL 3



OPTIONAL BASE CONDITION OF WALL PANEL  
USING BASE EXTRUSIONS

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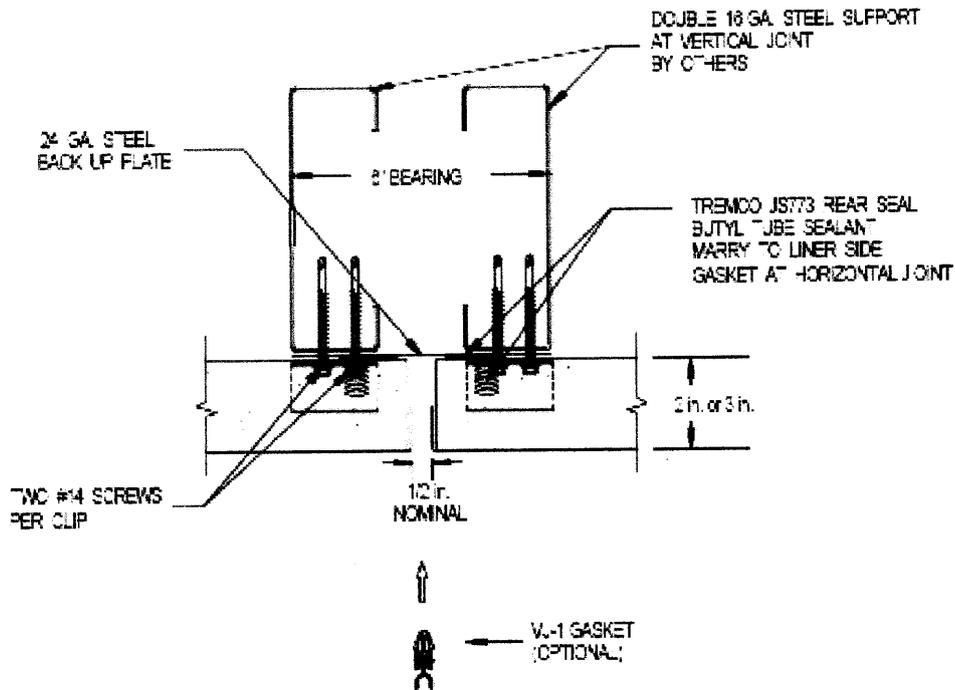
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11/10/09

STRUCTURAL ATTACHMENT DETAILS  
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)



TYPICAL VERTICAL JOINT  
DETAIL 4

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Expiration Date 05/20/2014  
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TITLE: STRUCTURAL ATTACHMENT DETAILS FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

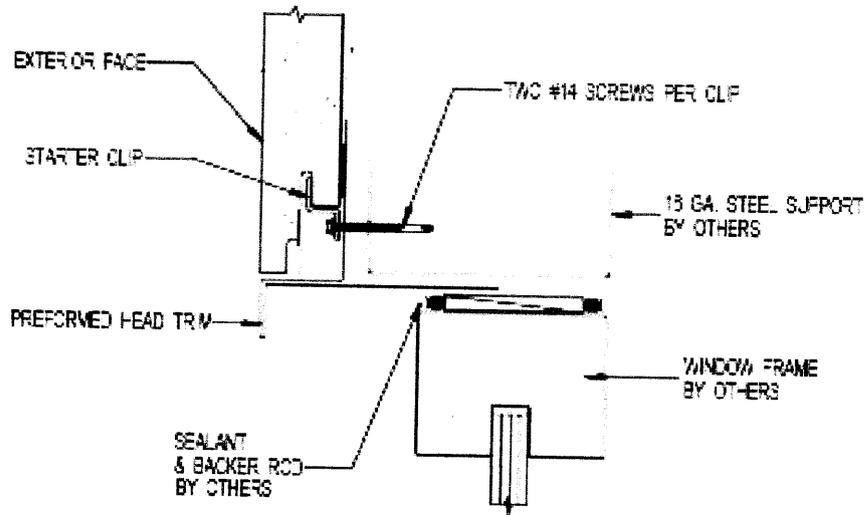
[Signature]  
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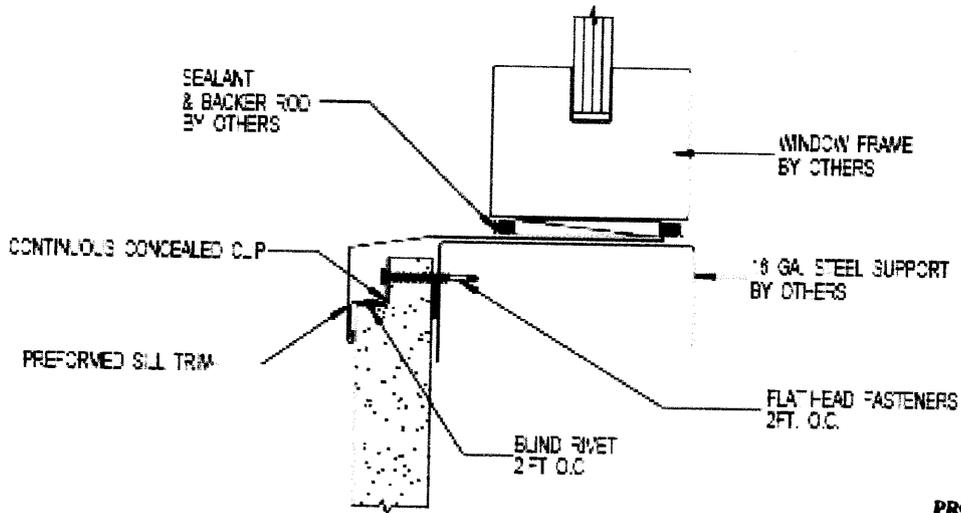
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TYPICAL WINDOW DETAILS  
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.



TYPICAL WINDOW HEAD



TYPICAL WINDOW SILL

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By [Signature]  
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TITLE: TYPICAL WINDOW DETAILS FOR FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

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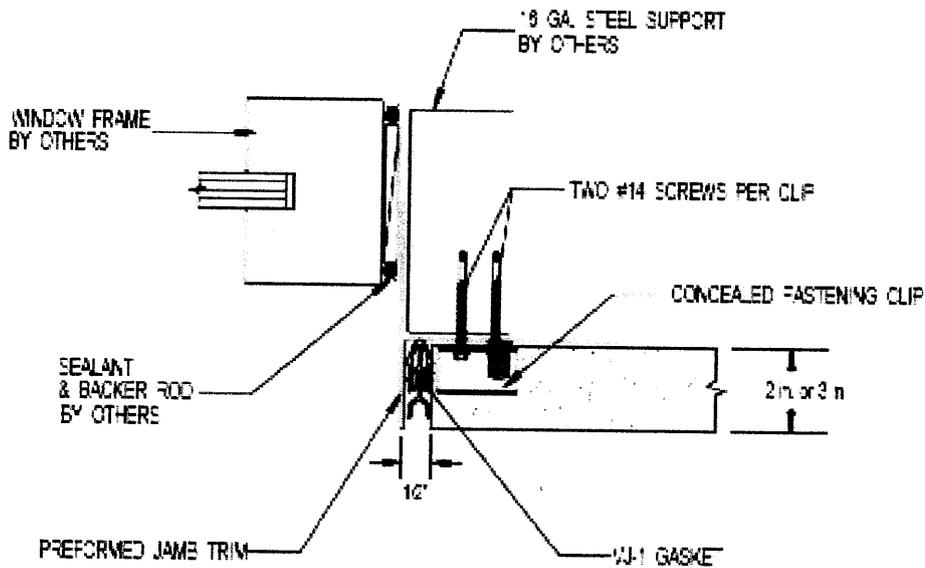
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TYPICAL WINDOW DETAILS  
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.



TYPICAL WINDOW JAMB

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