



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

Benchmark Architectural Systems, 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. **08-336DW4000**, titled "Designwall 4000 Series Wall Panel System", sheets 1 through 17 of 17, dated 01/16/09, prepared by C-Buck Engineering, 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 approval 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 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]
 5/12/09

NOA No. 09-0312.10
Expiration Date: May 20, 2014
Approval Date: May 20, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Engineering Report No. **C08-336DW4000**, titled "Designwall 4000 Series Wall Panel System", sheets 1 through 17 of 17, dated 01/16/09, prepared by C-Buck Engineering, signed and sealed by James L. Buckner, P.E.

B. TESTS

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.



5/12/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0312.10
Expiration Date: May 20, 2014
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C. CALCULATIONS

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

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

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.



5/12/09

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0312.10
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Engineering Report & Drawings
of
BENCHMARK
Designwall 4000 Series Wall Panel System
Wall Assembly
for
Miami-Dade Notice of Acceptance

Category: Panels
Sub - Category: Wall

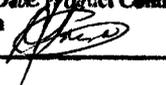
Product: Designwall 4000 Series Wall Panel System
Face & Liner Material: Steel
Core Material: Foam
Panel Thickness: 2 in. & 3 in.

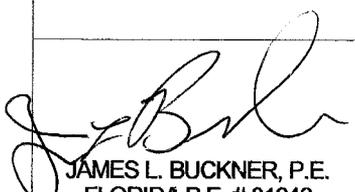
Prepared by:
James L. Buckner, P.E.
Florida Professional Engineer # 31242
Project Manager: Youry Demosthenes
Report No.: 08-336DW4000Series
Date: 1 / 16 / 09

MAR 16 2009

Contents:

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Approved as complying with the
 Florida Building Code
 Date 05/20/2009
 NOA# 09-0312-10
 Miami Dade Product Control
 Division
 By 


 JAMES L. BUCKNER, P.E.
 FLORIDA P.E. # 31242
 3/6/09

TITLE: ENGINEERING REPORT		
COA # 8064	MANUFACTURER:	DATE: 01/16/09
	BENCHMARK ARCHITECTURAL SYSTEMS, INC.	PAGE #: 1 OF 17
CBUCK ENGINEERING 1334 S KILLIAN DR, SUITE 4 WEST PALM BEACH, FL 33403 PH: (561) 491-9927 WWW.CBUCKINC.NET		PROJECT # C08-336
		DRAWN BY
		REV:

1.0 Product:

- 1.1 **Manufacturer:** Benchmark Architectural Systems, Inc.
- 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

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.

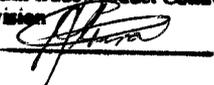
4.2 Panel Dimensions:

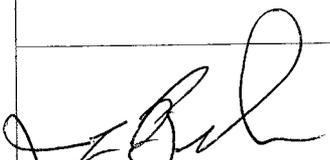
- 4.2.1 Length: 1 ft. - 30 ft.
- 4.2.2 Width: 24 in. & 30 in.
- 4.2.3 Thickness: 2 in. & 3 in.

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.
 - 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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COA # 8064	MANUFACTURER:	DATE: 01/16/09
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6.0 Performance:

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

6.1.1 Wind Resistance:

Design Pressure	Positive	+ 76 psf
	Negative	- 76 psf

Based on: a) Vertical Studs spaced 16 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	Tested
	> 650° F	856° F
Standard:	ASTM E 84	
Flame Spread Index:	Required	Tested
Smoke Developed Index:	< 75	25
	< 450	250

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COA # 8064	MANUFACTURER:	DATE: 01/16/09
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		REV:

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

6.2.1 Wind Resistance:

Design Pressure	Positive	+ 53 psf
	Negative	- 53 psf

Based on: a) Vertical Studs spaced 16 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
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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 3/4 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.

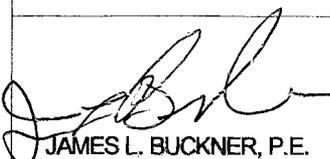
10.0 Identification:

- 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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 Florida Building Code
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 MOA# 09-0312.10
 Miami Dade Product Control
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	COA # 8064	MANUFACTURER:	DATE: 01/16/09
		BENCHMARK ARCHITECTURAL SYSTEMS, INC.	PAGE #: 5 OF 17
	CBUCK ENGINEERING 1334 S KILLIAN DR, SUITE 4 WEST PALM BEACH, FL 33403 PH: (561) 491-9927 WWW.CBUCKINC.NET		PROJECT # C08-336
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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 liners 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:

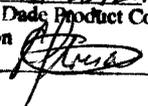
This is the standard clip used to secure the base of the bottom panel to the steel support

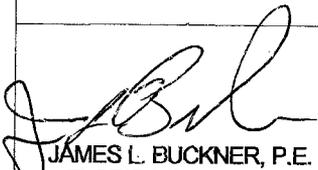
12.5.1 Part Number: 8100.1000
12.5.2 Material: Steel
12.5.3 Thickness: 12 Gauge
12.5.4 Yield Strength: 33 ksi
12.5.5 Corrosion Resistance: Zinc Plated

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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3/6/09

TITLE: ENGINEERING REPORT

COA # 8064

 CBUCK Engineering

CBUCK ENGINEERING
1334 S KILLIAN DR, SUITE 4
WEST PALM BEACH, FL 33403
PH: (561) 491-9927
WWW.CBUCKINC.NET

MANUFACTURER:

BENCHMARK ARCHITECTURAL
SYSTEMS, INC.

DATE: 01/16/09

PAGE #: 6 OF 17

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REV:

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

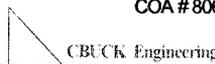
12.11 Sealant:

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

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

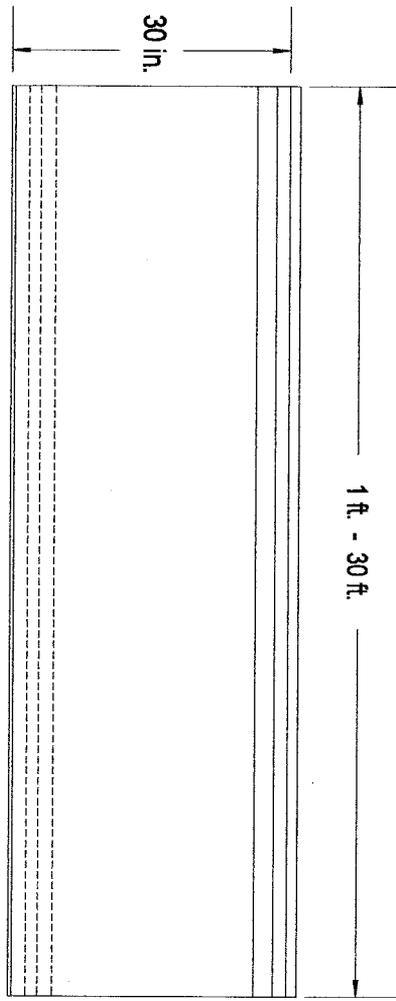
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 Miami Dade Product Control
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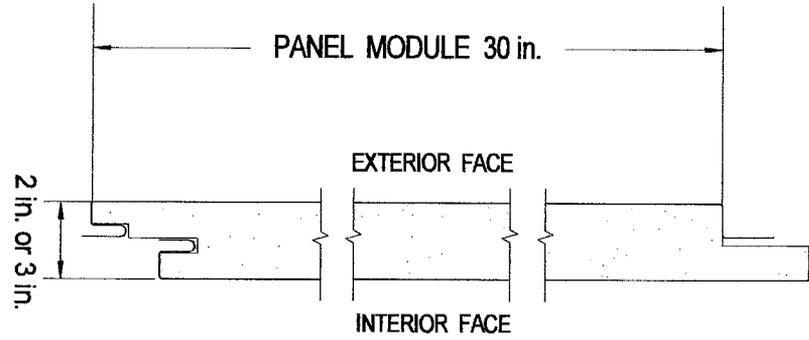
TITLE: ENGINEERING REPORT		
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	BENCHMARK ARCHITECTURAL SYSTEMS, INC.	PAGE #: 7 OF 17
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DESIGNWALL 4000 SERIES
 PANEL MODULE 30 in.

PANEL ELEVATION VIEW



PANEL SIDE SECTION VIEW



Approved as complying with the
 Florida Building Code
 Date 05/20/2009
 NOA# 07-0312.10
 Miami Dade Product Control
 Division
 By [Signature]

[Signature]
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 PANEL MODULE 30 in.

COA # 8064

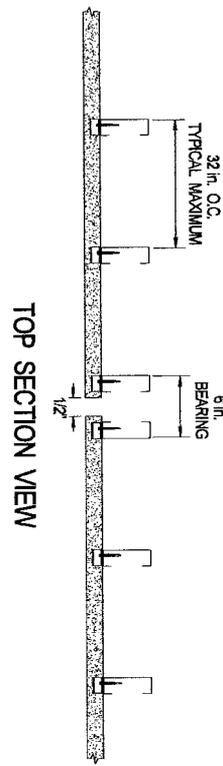
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 CBUCK Engineering

CBUCK ENGINEERING
 1334 S KILLIAN DR, SUITE 4
 WEST PALM BEACH, FL 33403
 PH: (561) 491-9927
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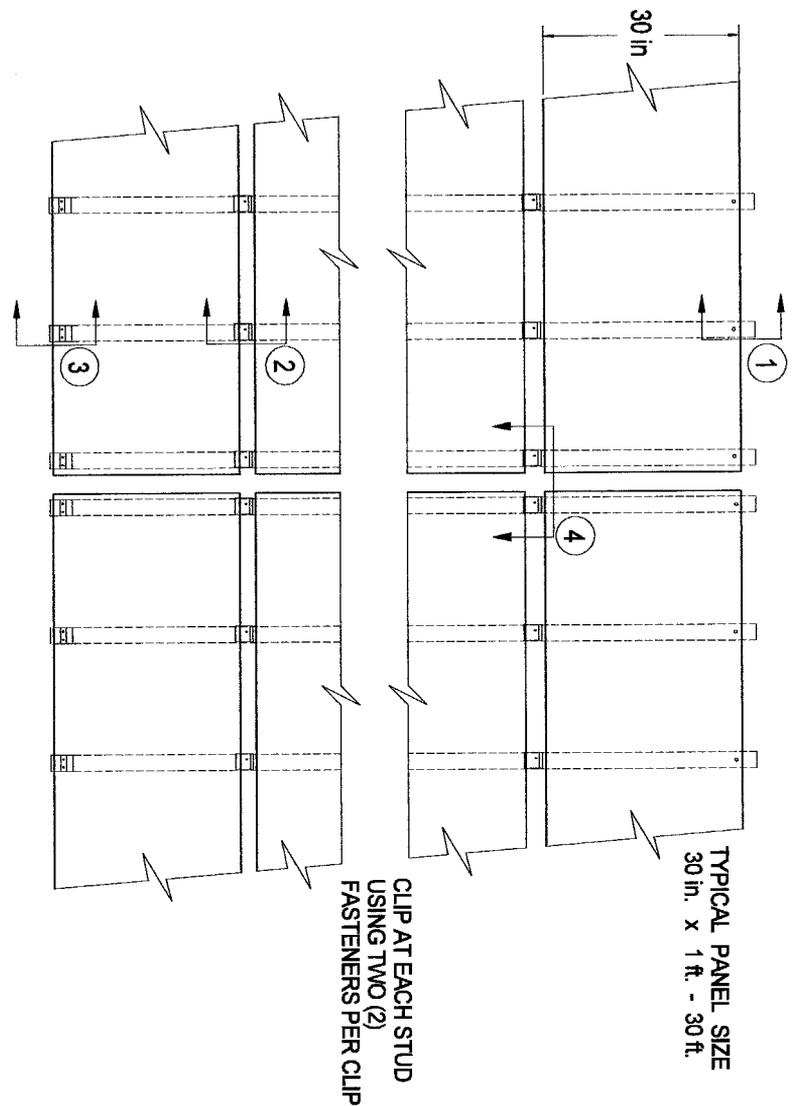
MANUFACTURER:
 BENCHMARK ARCHITECTURAL
 SYSTEMS, INC.

DATE:	01/16/09
PAGE #:	8 OF 17
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DRAWN BY	YD
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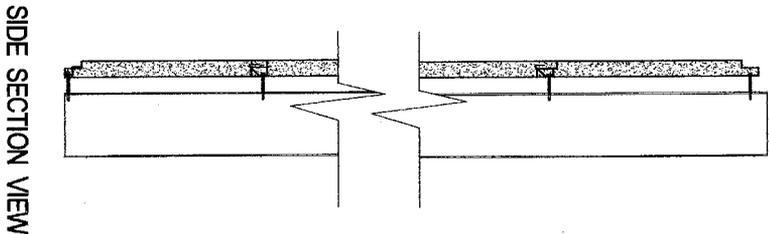
DESIGNWALL 4000 SERIES, 30 in. MODULE PANEL ASSEMBLY



TOP SECTION VIEW



TYPICAL ELEVATION VIEW
OUTSIDE OF WALL ASSEMBLY



SIDE SECTION VIEW

Approved as complying with the
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Date 05/20/2009
NOA# 09-0312-10
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Division
By [Signature]

[Signature]
JAMES L. BUCKNER, P.E.
FLORIDA P.E. # 31242
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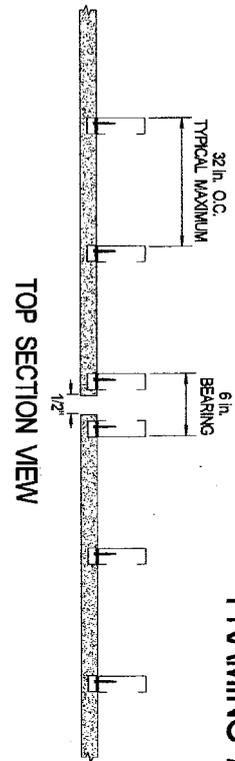
TITLE: DESIGNWALL 4000 SERIES, 30 in. MODULE
PANEL ASSEMBLY

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C BUCK Engineering
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1334 S KILLIAN DR, SUITE 4
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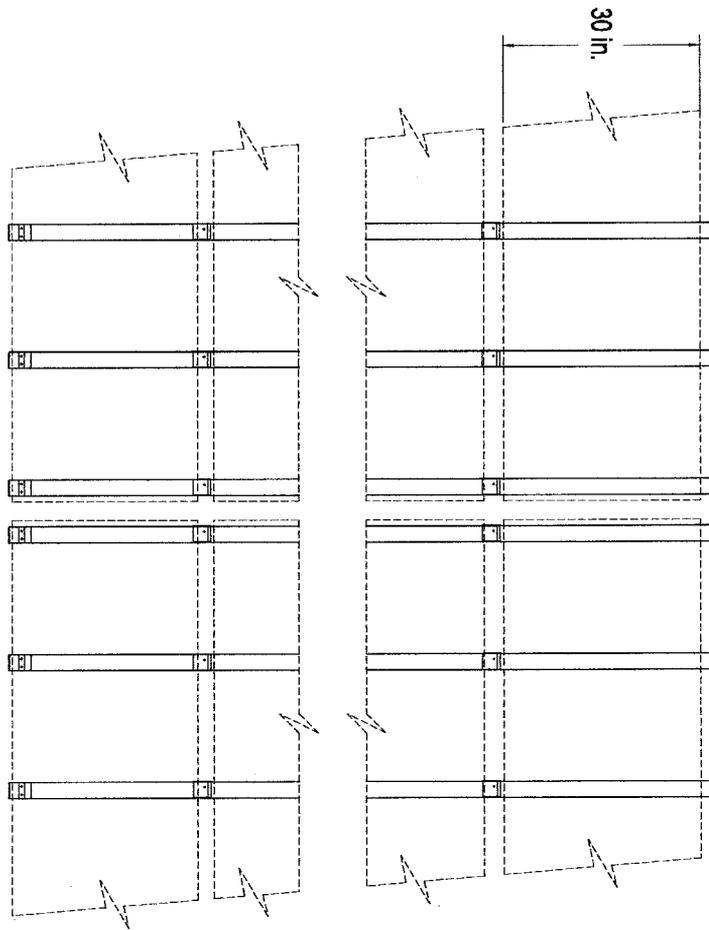
MANUFACTURER:
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SYSTEMS, INC.

DATE:	01/16/09
PAGE #:	9 OF 17
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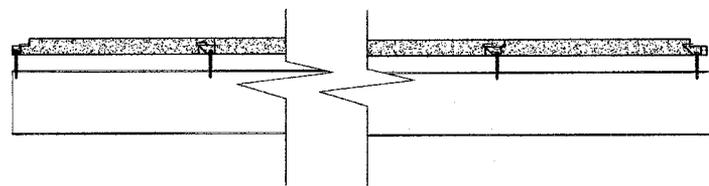
**DESIGNWALL 4000 SERIES, 30 in. MODULE
FRAMING ASSEMBLY**



TOP SECTION VIEW



**TYPICAL FRAMING ELEVATION
VERTICAL STEEL SUPPORT
FROM OUTSIDE VIEW**



SIDE SECTION VIEW

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Date 05/20/2009
NOA# 09-0312-10
Miami Dade Product Control
Division [Signature]
By [Signature]

[Signature]
JAMES L. BUCKNER, P.E.
FLORIDA P.E. # 31242
3/6/09

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

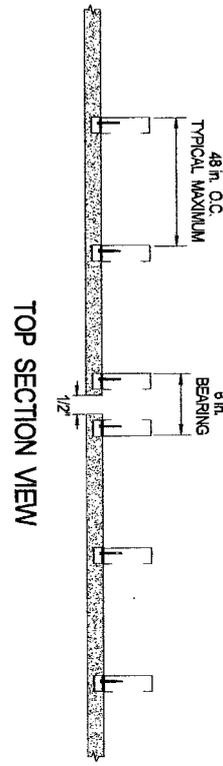
COA # 8064
CBUCK Engineering

CBUCK ENGINEERING
1334 S KILLIAN DR, SUITE 4
WEST PALM BEACH, FL 33403
PH: (561) 491-9927
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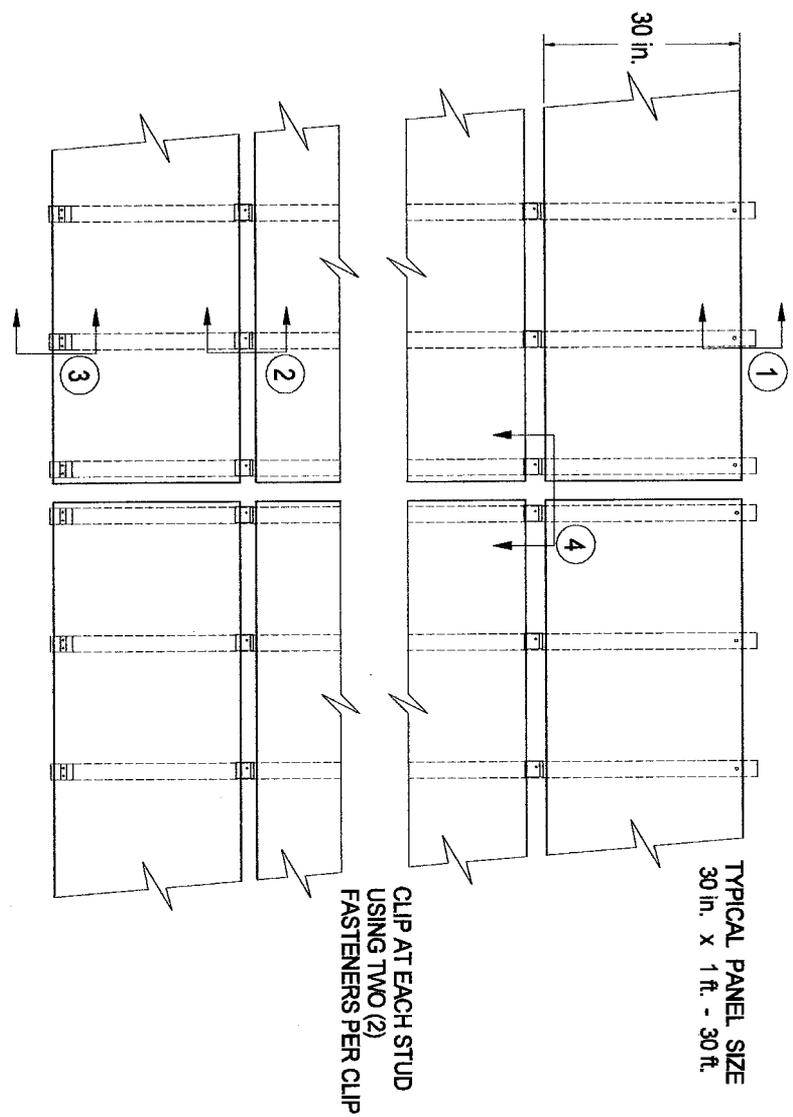
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DATE: 01/16/09
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PROJECT # C08-336
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DESIGNWALL 4000 SERIES, 30 in. MODULE PANEL ASSEMBLY



TOP SECTION VIEW

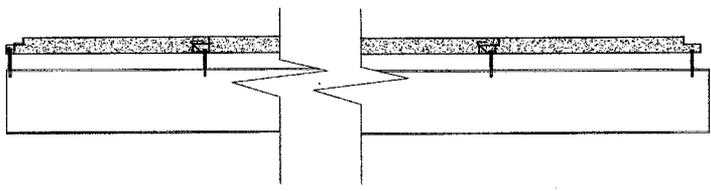


TYPICAL ELEVATION VIEW
OUTSIDE OF WALL ASSEMBLY

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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Division
By *[Signature]*

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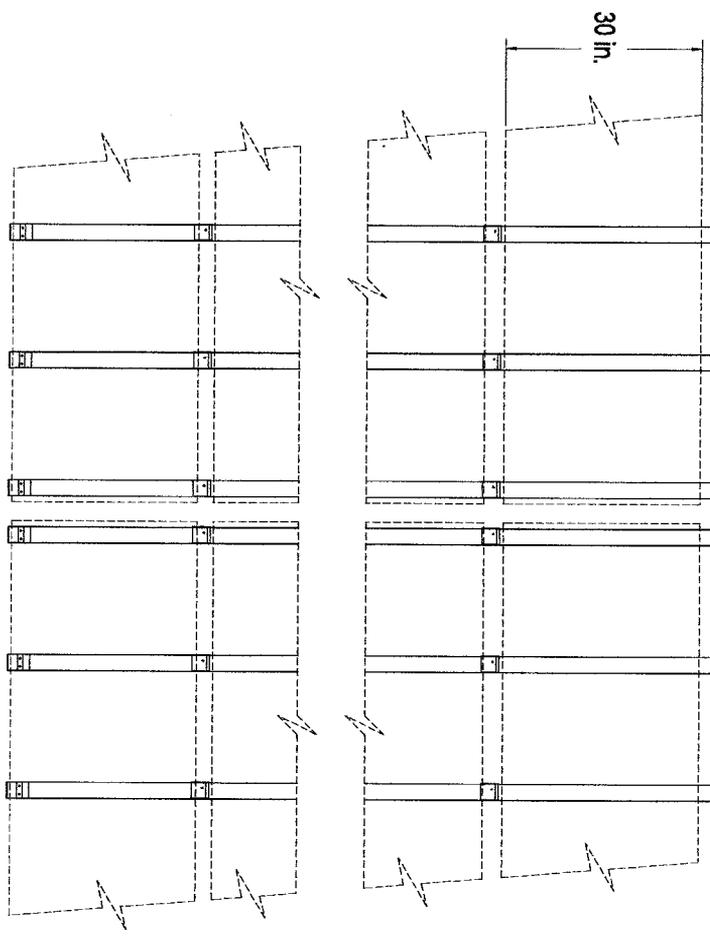
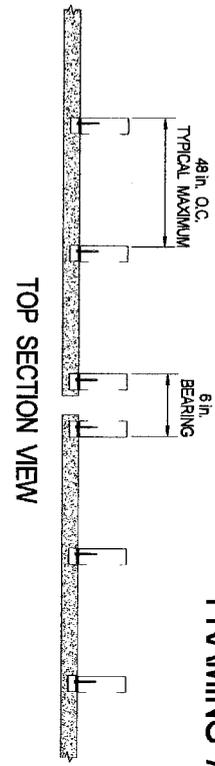
TITLE: DESIGNWALL 2000 SERIES, 30 in. MDULE
PANEL ASSEMBLY

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**DESIGNWALL 4000 SERIES, 30 in. MODULE
FRAMING ASSEMBLY**



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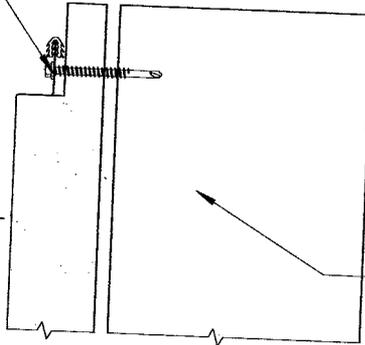
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FLORIDA P.E. # 31242
3/6/09

TITLE: DESIGNWALL 4000 SERIES, 30 in. MODULE FRAMING ASSEMBLY		DATE: 01/16/09	
COA # 8064		PAGE #: 12 OF 17	
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STRUCTURAL ATTACHEMENT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

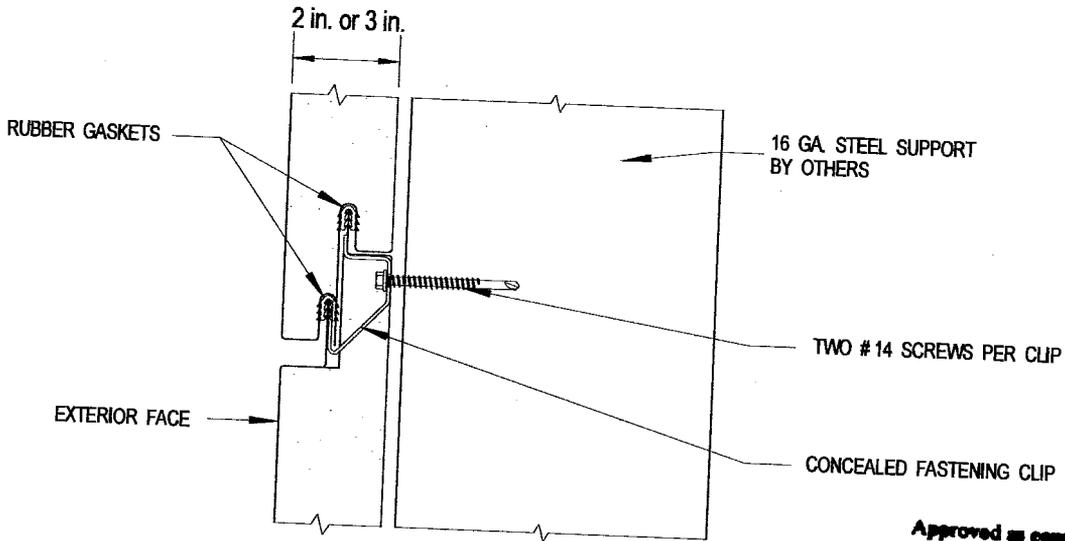
TWO #14 SCREWS
THROUGH PANEL
AT EACH SUPPORT

EXTERIOR FACE



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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Division
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TITLE: STRUCTURAL ATTACHEMNT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.

COA # 8064

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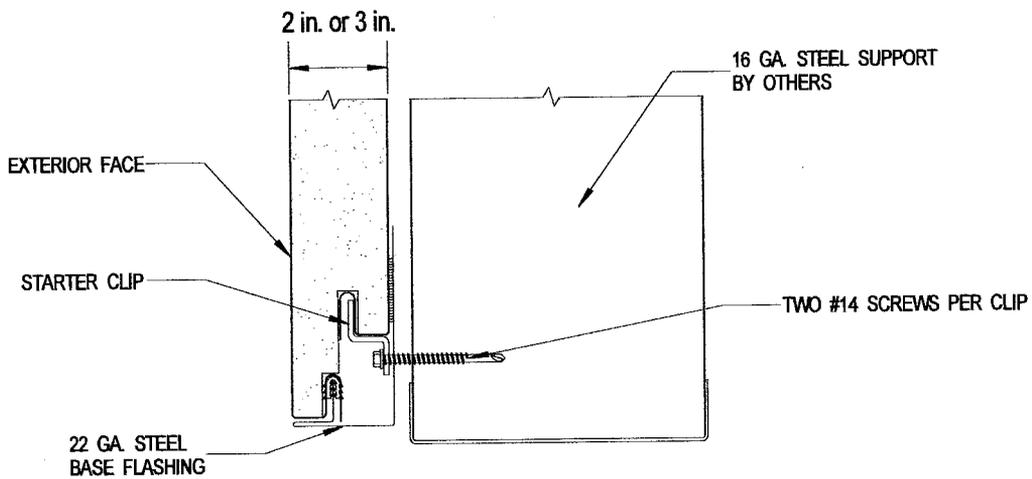
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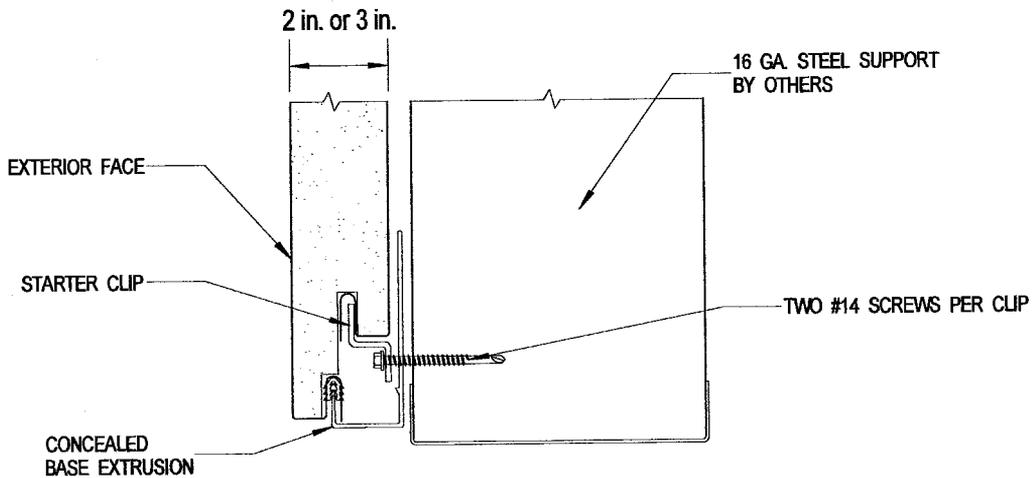
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DATE:	01/16/09
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PROJECT #:	C08-336
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**STRUCTURAL ATTACHEMENT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)**



**TYPICAL BASE OF WALL PANEL
DETAIL 3**



**OPTIONAL BASE CONDITION OF WALL PANEL
USING BASE EXTRUSIONS**

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TITLE: STRUCTURAL ATTACHEMNT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)

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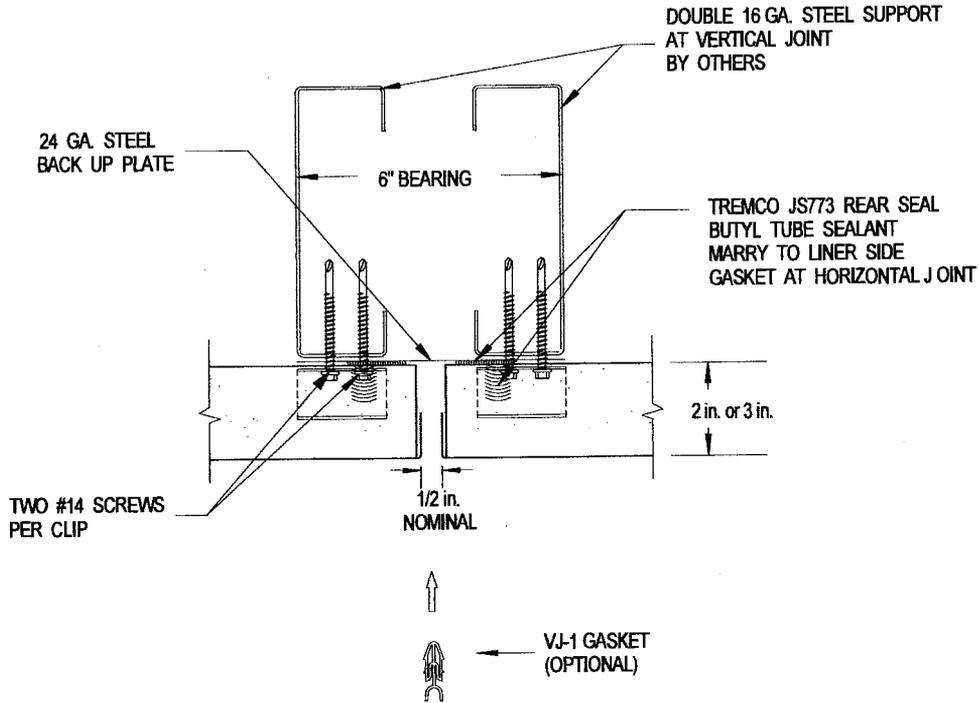
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DATE:	01/16/09
PAGE #:	14 OF 17
PROJECT #:	C08-336
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**STRUCTURAL ATTACHEMENT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)**



**TYPICAL VERTICAL JOINT
DETAIL 4**

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Division
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TITLE: STRUCTURAL ATTACHEMNT DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)

COA # 8064

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INC.

DATE: 01/16/09

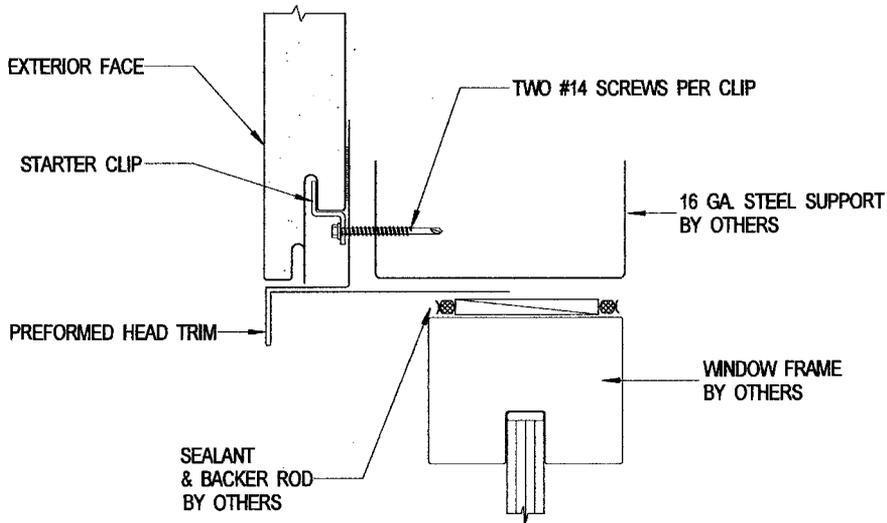
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PROJECT # C08-336

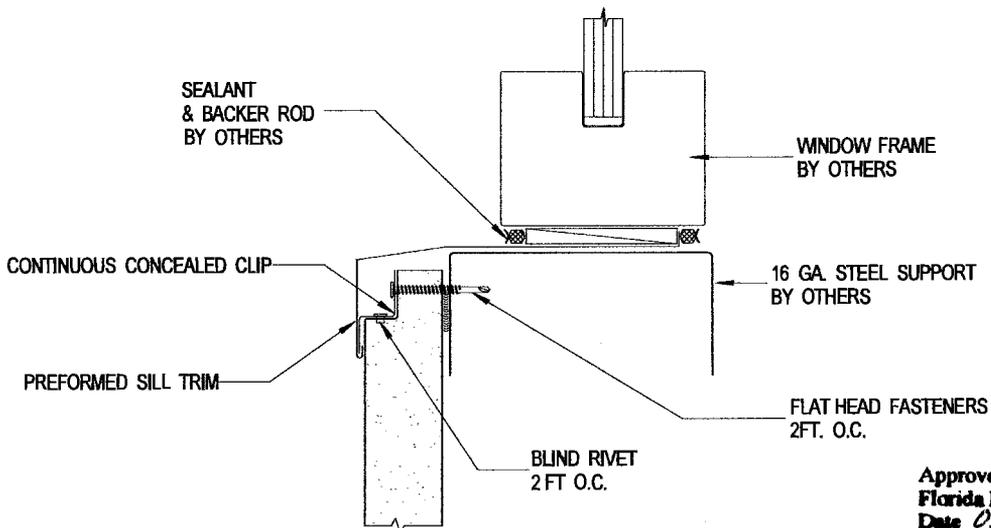
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**TYPICAL WINDOW DETAILS
FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.**



TYPICAL WINDOW HEAD



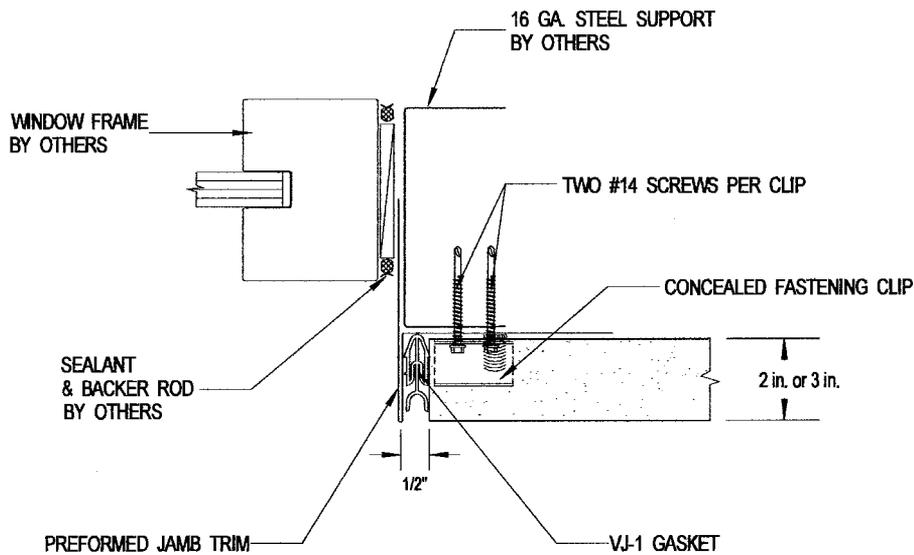
TYPICAL WINDOW SILL

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 NOA# 09-0312-10
 Miami Dade Product Control
 Division
 By [Signature]

[Signature]
JAMES L. BUCKNER, P.E.
 FLORIDA P.E. # 31242
 3/6/09

TITLE: TYPICAL WINDOW DETAILS FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C.		DATE: 01/16/09	
COA # 8064		MANUFACTURER: BENCHMARK ARCHITECTURAL SYSTEMS, INC.	
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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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Miami Dept. Product Control
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FLORIDA P.E. # 31242
3/6/09

TITLE: TYPICAL WINDOW DETAILS FOR SUPPORTS SPACED 32 in. O.C. & 48 in. O.C. (CONTINUED)		
COA # 8064	MANUFACTURER:	DATE: 01/16/09
 CBUCK Engineering	BENCHMARK ARCHITECTURAL SYSTEMS, INC.	PAGE #: 17 OF 17
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