



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) 375-2908

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

StructurTech, LLC
1156 Bowman Road, Suite 101
Mt. Pleasant, S.C. 29464

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: "EVG - 3D" Wall Panel System

APPROVAL DOCUMENT: Drawing No. 05-070, titled "EVG-3D Panels", sheets 1 through 12 of 12, prepared by Tobias West Structural Engineers, dated October 20, 2005, signed and sealed by Eric W. Tobias, 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

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 revises NOA #01-0614.07 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

Helmy A. Makar
 12/01/2005

NOA No 05-0630.01
Expiration Date: 06/14/2006
Approval Date: 12/01/2005
Page 1



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #94-1006.01

A. DRAWINGS

1. *Drawing prepared by Roger C. Purcell, P.E. titled "Insteel 3-D Wall Panel Details" dated April 10, 1995, sheets 1 through 7 of 7, signed and sealed by Roger C. Purcell, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of "Insteel Wall Panel System", prepared by Construction Research Laboratory, Inc., Report #6112, dated September 18, 1994, signed and sealed by Vipin Tolat, P.E.*

C. CALCULATIONS

1. *Calculations dated January 13, 1995, prepared by Roger C. Purcell, P.E., signed and sealed by Roger C. Purcell, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #98-0610.06

A. DRAWINGS

1. *Drawing prepared by Roger C. Purcell, P.E. titled "ICS 3-D Wall Panel Details" dated April 10, 1995, sheets 1 through 7 of 7, signed and sealed by Roger C. Purcell, P.E.*
2. *Drawings prepared by Roger C. Purcell, P.E. titled "Standard 3-D Section; Minimum 3-D Section; Maximum 3-D Section; 2-hr Rated 3-D Section; Allowable Wind Loads on ICS 3-D Panels" dated January 13, 1995, revised August, 1989, sheets 1 through 5 of 5, signed and sealed by Roger C. Purcell, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

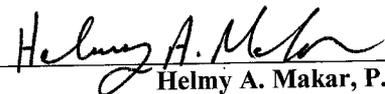
1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Letter from ICS Panel Works, Inc., stating that the product has not changed since it was originally approved, only the name of manufacturer has changed from Insteel Construction Systems, Inc. to ICS 3-D Panel Works, Inc., dated June 8, 1998.*
2. *Letter from Pruitt & Purcell, P.C., stating that they are still in the engineering business, dated June 8, 1998.*



Helmy A. Makar, P. E.
Product Control Examiner
NOA No 05-0630.01
Expiration Date: 06/14/2006
Approval Date: 12/01/2005

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. OTHER

1. *This file renews file No 94-1006.01.*
2. *National Research Council of Canada Approval*
3. *Government of the Virgin Islands of the U.S. Approval*
4. *Texas Department of Insurance Approval*
5. *City of Philadelphia Approval*
6. *Department of Public Safety and Corrections, State of Louisiana Approval*
7. *Department of Housing and Urban Development Approval*
8. *NES Evaluation Services, Inc. Evaluation Report.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-0614.07

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-070, titled "EVG-3D Panels", sheets 1 through 12 of 12, prepared by Tobias West Structural Engineers, dated October 20, 2005, signed and sealed by Eric W. Tobias, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

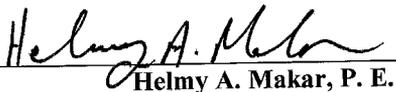
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P. E.
Product Control Examiner
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STRUCTURAL ANALYSIS OF EVG-3D PANELS

DESCRIPTION:

The EVG-3D wall panel consist of a three-dimensional welded wire space frame integrated with a polystyrene insulation core. This reinforcement/insulation module is placed in position and wythes of concrete or mortar are applied to both sides, this is shown conceptually in Figure 1.

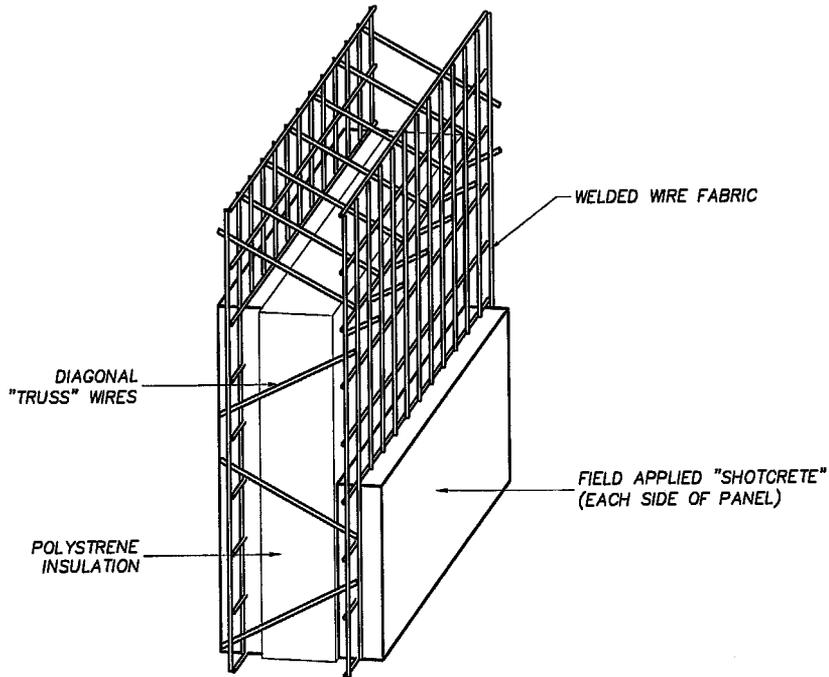


FIGURE 1: EVG-3D PANEL

The 3D wall panel receives its strength and rigidity by the diagonal cross wires welded to the welded wire fabric on each side. This produces truss behavior which is very rigid and provides adequate shear transfer for full composite behavior.

The reinforcement/insulation module (RIM) is shop fabricated with highly automated equipment. This ensures consistent dimensional control and high quality welding. Four different configurations of RIM are manufactured, as shown in Figures 2, 3, 4 and 5. Figure 2 shows the standard panel, which has 2 1/2 in. of insulation and a RIM thickness of 4 in. with 1 1/2 in. concrete wythes, the overall wall thickness is 5 1/2 in. This section is suitable for most applications.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 05-0639-01
Expiration Date 06/14/2006
By Helmut H. Meier
Miami Dade Product Control
Division

10/20/05
Steve W. Tobias

StructurTech, LLC
FORMERLY INNOVATIVE CONSTRUCTION SYSTEMS, LLC
4280 PACE STREET
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EVG-3D WALL PANEL DETAILS

TOBIAS WEST
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Tobias & West, LLC ph: 843.216.9820
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DESIGNED BY: E. Tobias
CHECKED BY: B. Westin
APPROVED BY: E. Tobias
DATE: 10-20-05
PROJECT NO.: 05-070
SHEET: 1 OF 12

NOTES:

1. ALL CONCRETE SHALL DEVELOPE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI. CONCRETE FOR EVG-3D WALL PANELS SHALL BE PNEUMATICALLY PLACED (SHOTCRETE) AND SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MATERIALS, PROPORTIONING AND APPLICATION OF SHOTCRETE" ACI-506.2.
2. REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM SPECIFICATION A-615.
3. CONCRETE COVERAGE UNLESS NOTED OTHERWISE OR SHOWN:

A. FOOTINGS	3" FOR BOTTOM AND SIDES
B. WALLS	¾" FOR SIDES
4. REINFORCING STEEL SHALL BE BENT LAPPED AND SPLICED IN ACCORDANCE WITH ACI STANDARD DETAILS AND SPECIFICATIONS MINIMUM LAP = 1'-0".
5. THE SOIL CONDITIONS AT THIS SITE SHALL BE ADEQUATE TO SUPPORT A DESIGN LOAD OF 2000 PSF. SHOULD OTHER CONDITIONS OR MATERIALS BE ENCOUNTERED, THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK.
6. SEE ARCHITECTURAL PLANS FOR ALL INFORMATION NOT SHOWN.
7. ALL WOOD TRUSSES SHALL BE DESIGNED BY THE FABRICATOR, SHOP DRAWINGS BEARING THE SEAL OF AN ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
8. ALL WORK SHALL BE IN ACCORDANCE TO THE "FLORIDA BUILDING CODE".
9. FOAM PLASTIC SHALL COMPLY WITH FLORIDA BUILDING CODE 3505.2 MINIMUM SELF IGNITION - 650°F ASTM D1929 SMOKE DENSITY < 450 AND FLAME SPREAD < 75 ASTM E84.

10/20/05
 G.W. Tobias

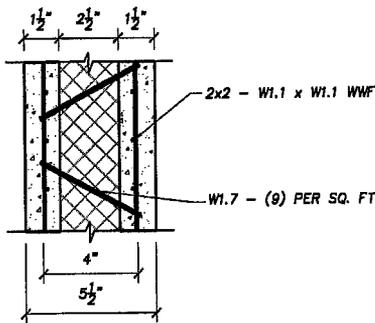


FIGURE 2
STANDARD 3D SECTION

SCALE: 1 ½" = 1'-0"

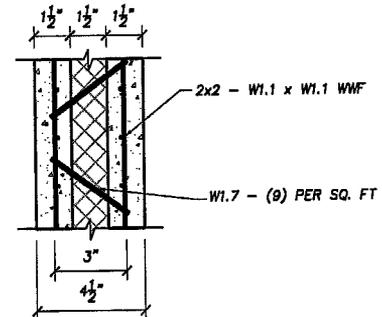


FIGURE 3
MINIMUM 3D SECTION

SCALE: 1 ½" = 1'-0"

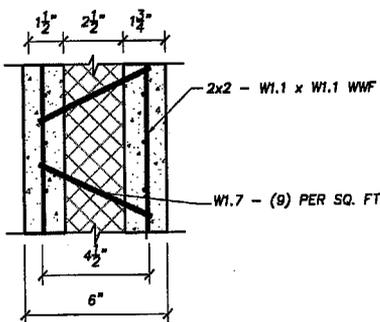


FIGURE 4
MAXIMUM 3D SECTION

SCALE: 1 ½" = 1'-0"

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 By Heather A. Miller
 Miami Dade Product Control
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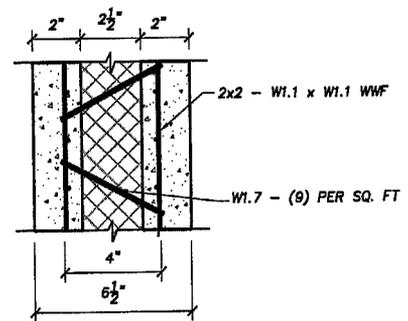


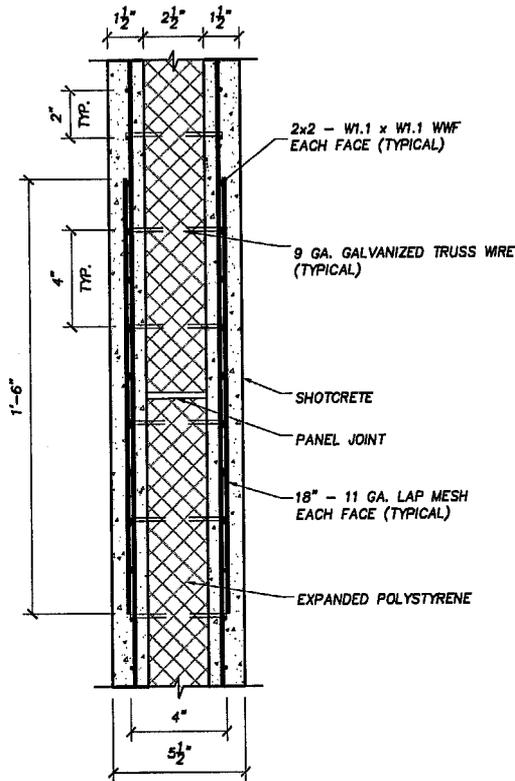
FIGURE 5
2-HR RATED 3D SECTION

SCALE: 1 ½" = 1'-0"

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 EVG-3D WALL PANEL DETAILS

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TYPICAL WALL SPLICE

(PLAN VIEW)

SCALE: 1 1/2" = 1'-0"

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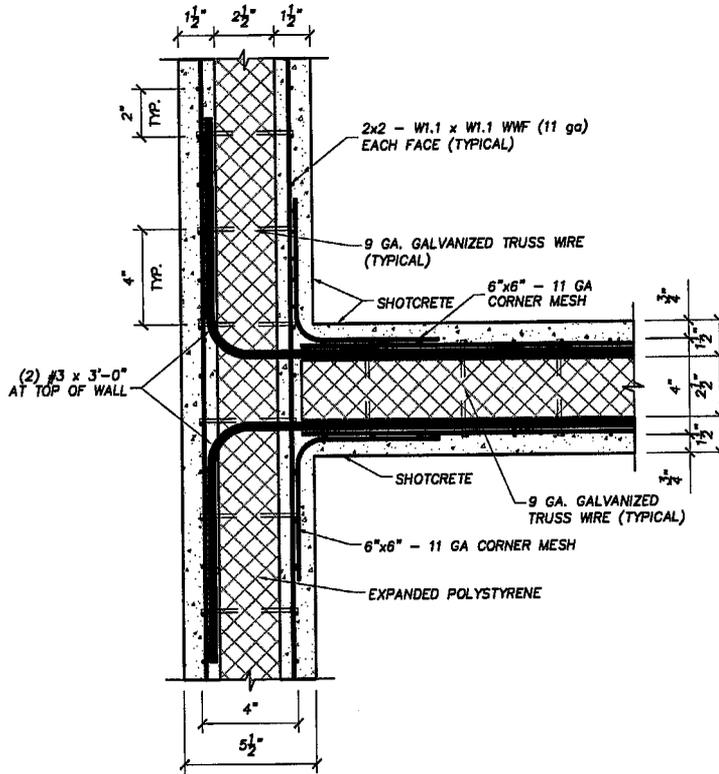
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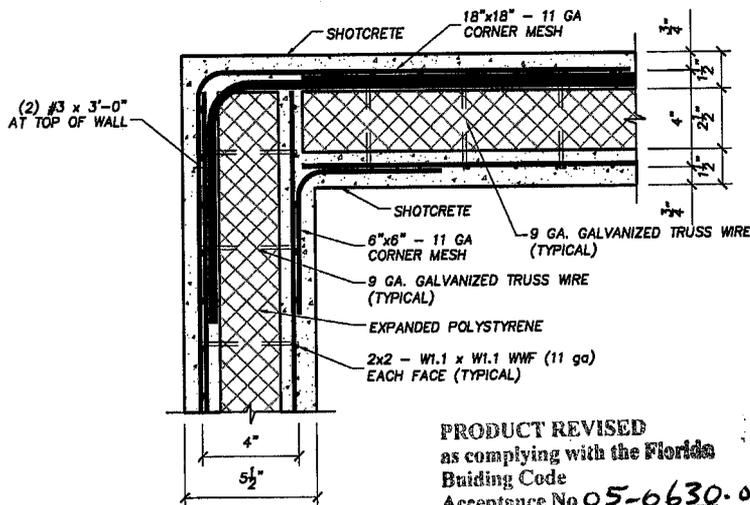
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TYPICAL WALL INTERSECTION

SCALE: 1 1/2" = 1'-0"



TYPICAL CORNER DETAIL

SCALE: 1 1/2" = 1'-0"

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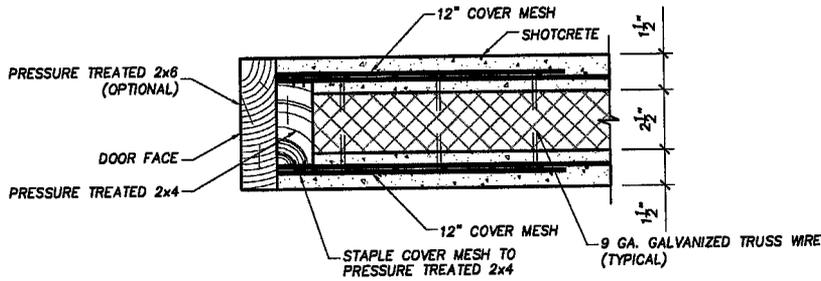
By Helmut A. Miller
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Wm W. Tobias
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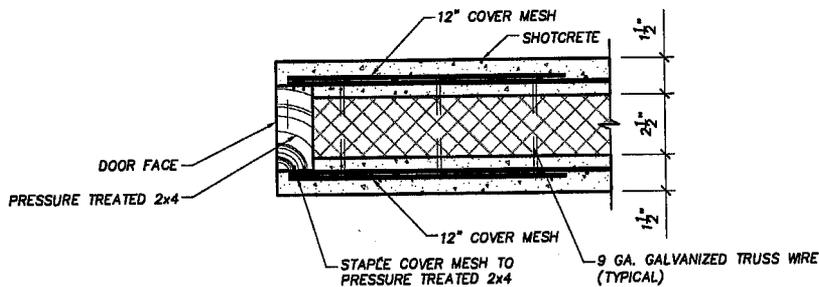
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DATE:	10-20-05
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SHEET:	4 OF 12



TYPICAL WINDOW/DOOR JAMB

SCALE: 1 1/2" = 1'-0"



TYPICAL WINDOW/DOOR FRAME

SCALE: 1 1/2" = 1'-0"

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Eric W. Tobias

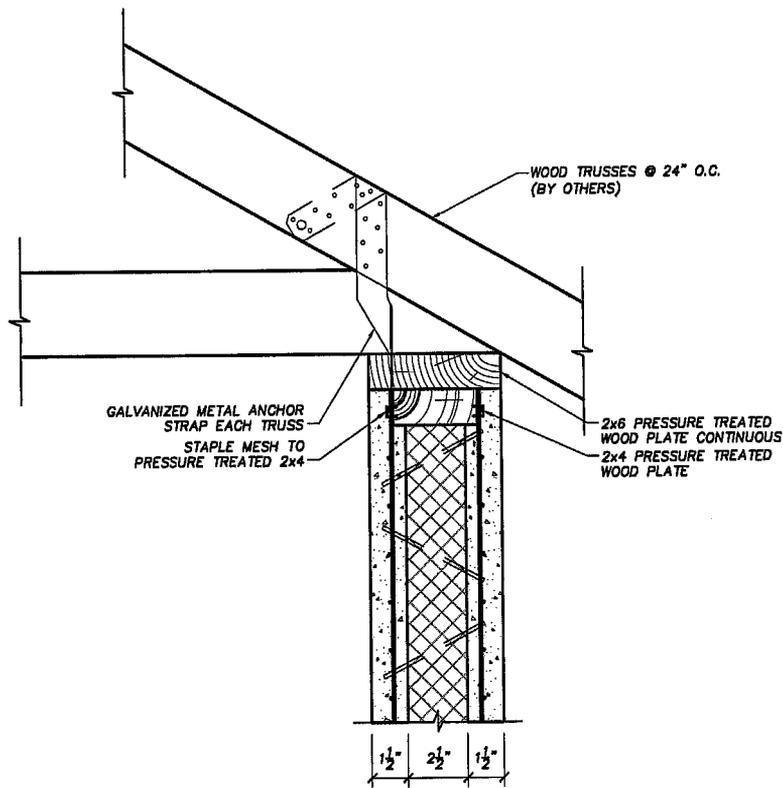
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TYPICAL TRUSS SUPPORT

SCALE: 1 1/2" = 1'-0"

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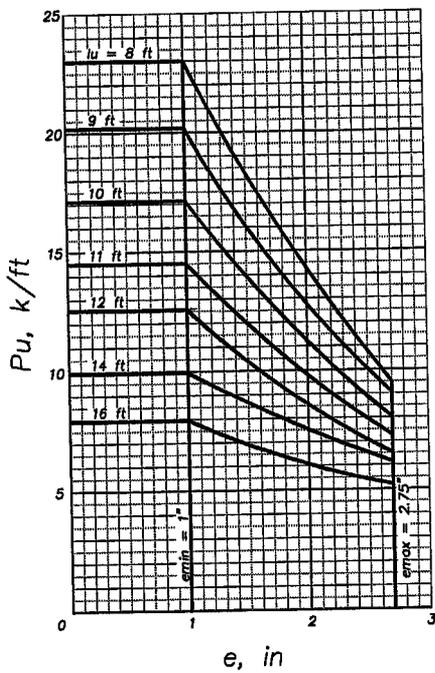
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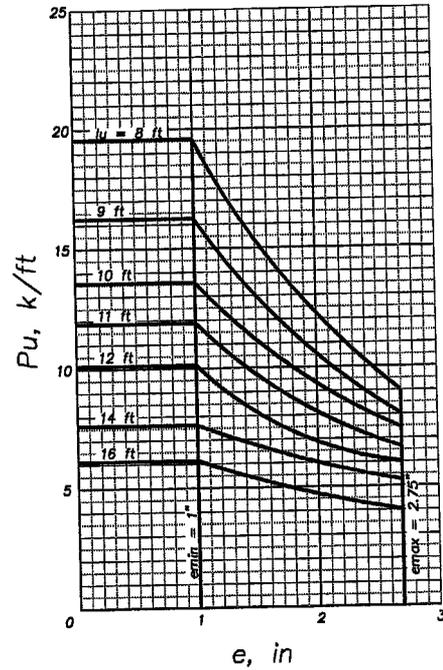
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DATE:	10-20-05
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SHEET:	6 OF 12



Structures with steel or wood floors or roofs.
 $\beta_d = 0.3$



Structures with steel or wood floors or roofs.
 $\beta_d = 0.7$

Concrete Thickness - 1.5 in. ea. side
 Insulation Thickness - 2.5 in.
 Wythe Reinforcement - 2x2 - W1.1xW1.1 WWF
 Diagonal Reinforcement - W1.7 - (9) per sq. FT
 Use with $P_u = 1.4D + 1.7L$

FIG. D-1 STANDARD 3D PANEL DESIGN LOADS AND ECCENTRICITIES

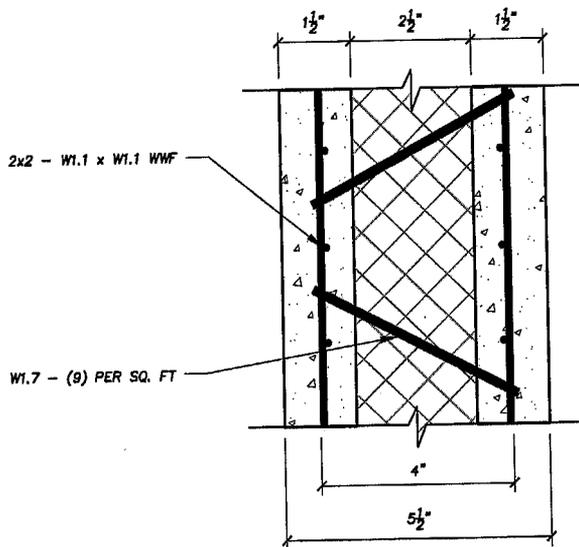


FIGURE 1
 STANDARD 3D SECTION
 SCALE: 3" = 1'-0"

*Reference: "Structural Analysis of Insteel 3-D Wall Panels" by The Consulting Engineers Group - May 1989 Last Revised August 1989

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 05-0630-01 Expiration Date 06/14/2006 By *Heung A. Mohr* Miami Dade Product Control Division

Eve W. Tobias
 10/20/05

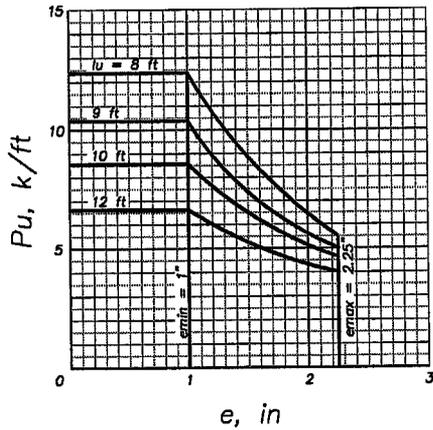
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EVG-3D WALL PANEL SECTIONS & DESIGN LOADS, STANDARD PANEL

TOBIAS WEST
 STRUCTURAL ENGINEERS

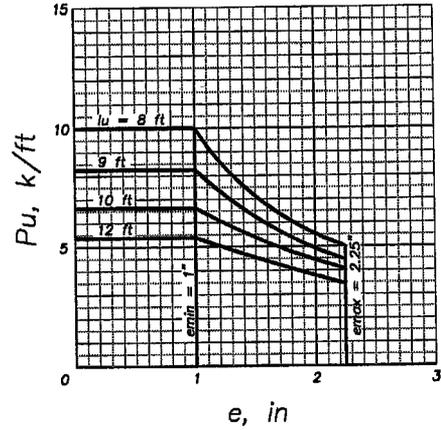
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PROJECT NO.:	05-070
SHEET:	8 OF 12



Structures with steel or wood floors or roofs.
 $\beta_d = 0.3$

Concrete Thickness - 1.5 in. ea. side
 Insulation Thickness - 2.5 in.
 Wythe Reinforcement - 2x2 - W1.1xW1.1 WWF
 Diagonal Reinforcement - W1.7 - (9) per sq. FT
 Use with $P_u = 1.4D + 1.7L$



Structures with steel or wood floors or roofs.
 $\beta_d = 0.7$

FIG. D-2 MINIMUM 3D PANEL DESIGN LOADS AND ECCENTRICITIES

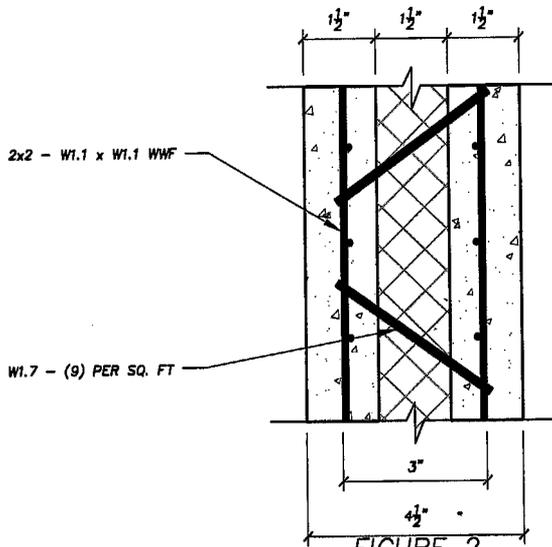


FIGURE 2
 MINIMUM 3D SECTION
 SCALE: 3" = 1'-0"

*Reference: "Structural Analysis of Insteel 3-D Wall Panels" by The Consulting Engineers Group - May 1989 Last Revised August 1989

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 Acceptance No 05-9630.01
 Expiration Date 06/14/2006
 By Helmut A. Mader
 Miami Dade Product Control Division

Eric W. Tolins

10/20/05

StructurTech, LLC
 FORMERLY INNOVATIVE CONSTRUCTION SYSTEMS, LLC
 4280 PACE STREET
 NORTH CHARLESTON, SC 29401

EVG-3D WALL PANEL SECTIONS & DESIGN LOADS, MINIMUM 3D PANEL

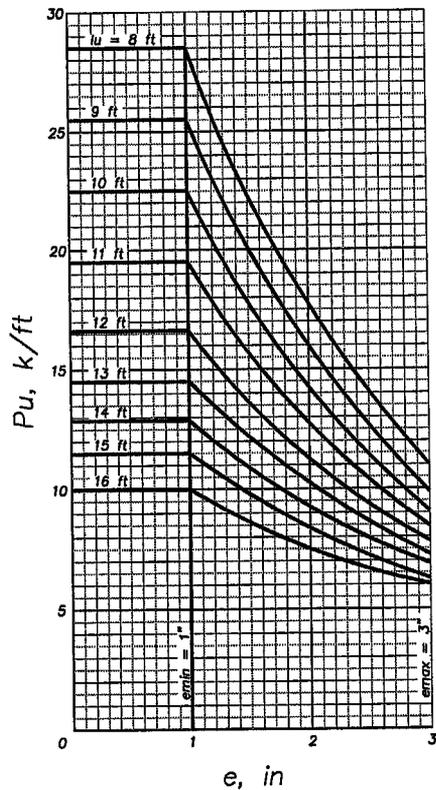
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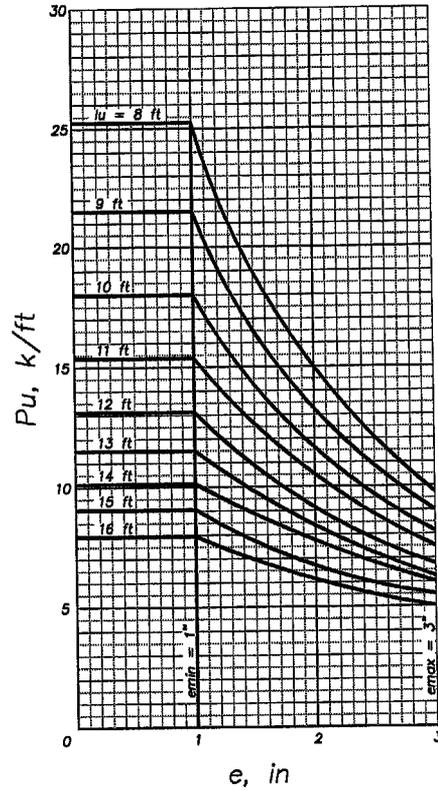
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CHECKED BY:	B. Westin
APPROVED BY:	E. Tobias
DATE:	10-20-05
PROJECT NO.:	05-070
SHEET:	9 OF 12



Structures with steel or wood floors or roofs.
 $\beta_d = 0.3$

Concrete Thickness - 1.5 in. ea. side
 Insulation Thickness - 2.5 in.
 Wythe Reinforcement - 2x2 - W1.1xW1.1 WWF
 Diagonal Reinforcement - W1.7 - (9) per sq. FT
 Use with $P_u = 1.4D + 1.7L$



Structures with steel or wood floors or roofs.
 $\beta_d = 0.7$

FIG. D-3 MAXIMUM 3D PANEL DESIGN LOADS AND ECCENTRICITIES

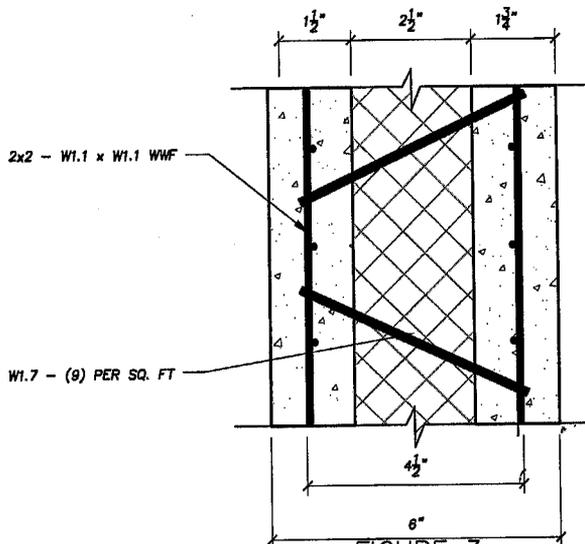


FIGURE 3
 MAXIMUM 3D SECTION
 SCALE: 3" = 1'-0"

*Reference: "Structural Analysis of Insteel 3-D Wall Panels" by The Consulting Engineers Group - May 1989 Last Revised August 1989

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 Miami Dade Product Control Division

Eric W. Tobias
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 NORTH CHARLESTON, SC 29401

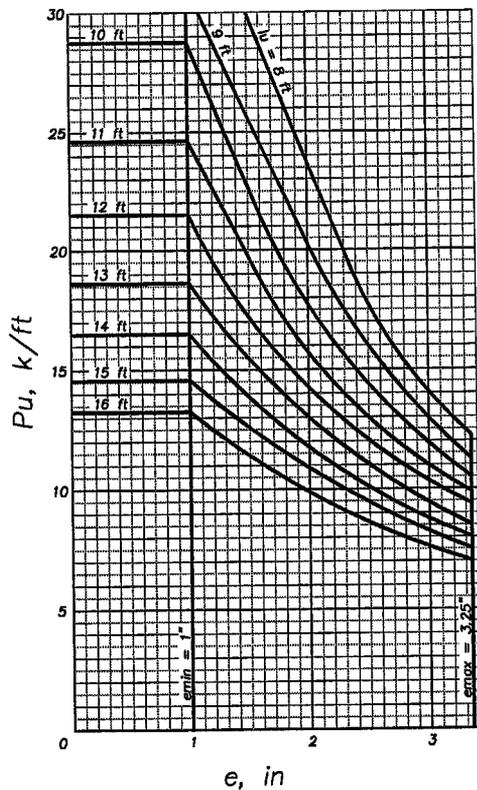
EVG-3D WALL PANEL SECTIONS & DESIGN LOADS, MAXIMUM 3D PANEL

TOBIAS WEST

STRUCTURAL ENGINEERS

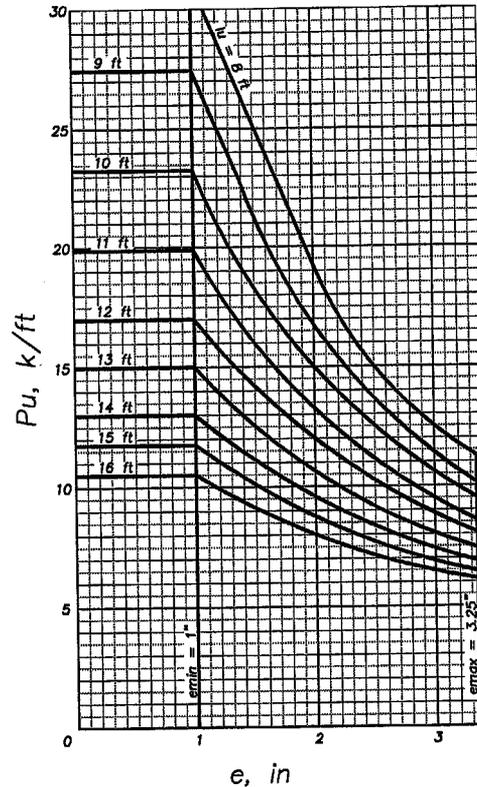
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 DESIGNED BY: E. Tobias
 CHECKED BY: B. Westin
 APPROVED BY: E. Tobias
 DATE: 10-20-05
 PROJECT NO.: 05-070
 SHEET: 10 OF: 12



Structures with steel or wood floors or roofs.
 $\beta_d = 0.3$

Concrete Thickness - 1.5 in. ea. side
 Insulation Thickness - 2.5 in.
 Wythe Reinforcement - 2x2 - W1.1xW1.1 WWF
 Diagonal Reinforcement - W1.7 - (9) per sq. FT
 Use with $P_u = 1.4D + 1.7L$



Structures with steel or wood floors or roofs.
 $\beta_d = 0.7$

FIG. D-4 2-HR RATED 3D PANEL DESIGN LOADS AND ECCENTRICITIES

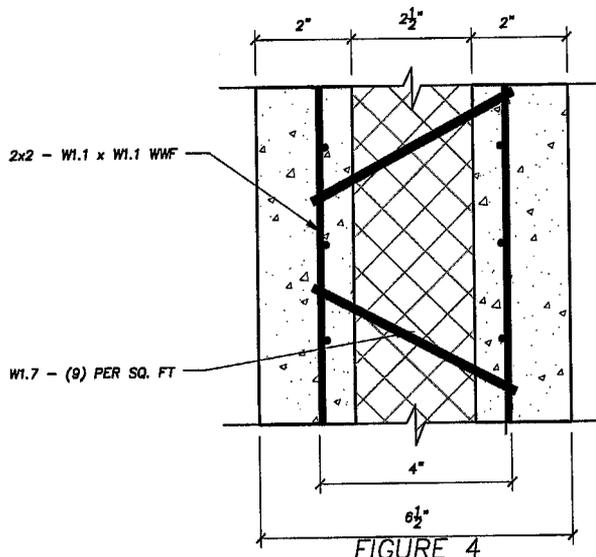


FIGURE 4

*Reference: "Structural Analysis of Insteel 3-D Wall Panels" 2-HR RATED 3D SECTION
 by The Consulting Engineers Group - May 1989
 Last Revised August 1989
 SCALE: 3" = 1'-0"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 05-0630.01
 Expiration Date 06/14/2006
 By *Heather A. Miller*
 Miami Dade Product Control
 Division

Eric L. Tobias
 10/29/05

StructurTech, LLC
 FORMERLY INNOVATIVE CONSTRUCTION SYSTEMS, LLC
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 NORTH CHARLESTON, SC 29401

EVG-3D WALL PANEL SECTIONS & DESIGN LOADS, 2-HR RATED 3D PANEL

TOBIAS WEST

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 PROJECT NO.: 05-070
 SHEET: 11 OF 12

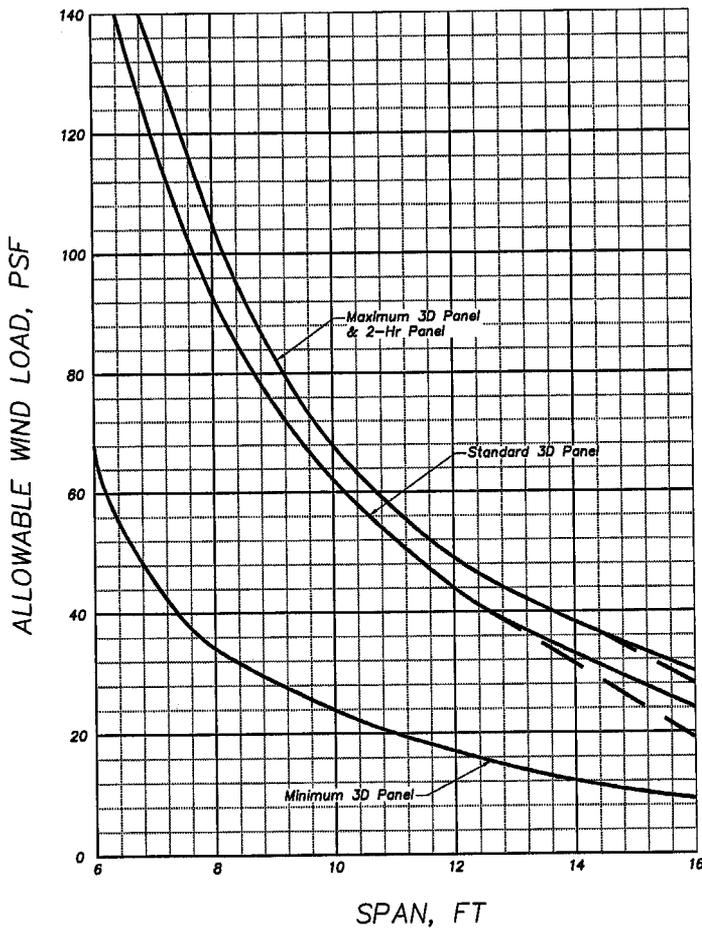


FIG. D-5 ALLOWABLE WIND LOADS ON ICS 3D PANELS

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 By *Heung A. Nelson*
 Miami Dade Product Control
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Carrie W. Tolson
 10/20/05

*Reference: "Structural Analysis of Insteel 3-D Wall Panels"
 by
 The Consulting Engineers Group - May 1989
 Last Revised August 1989

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 ALLOWABLE WIND LOADS ON EVG-3D WALL PANELS

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SHEET:	12 OF 12