



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Elite Aluminum Corporation
4650 Lyons Technology Parkway
Coconut Creek, Florida 33073

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: 3" or 6" EPS Roof Panel for Open Structures

APPROVAL DOCUMENT: Drawing No. 05-539 titled " 3" or 6" Roof Panel ", prepared by Thornton Tomasetti, dated November 13, 2006, last revision #0 dated November 13, 2006, sheets 1 and 2 of 2, signed and sealed by J. W. Knezevich, P.E., bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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 **renews NOA # 08-0123.03** and consists of this page 1, evidence submitted pages E-1, E-2, E-3 & E-4 as well as approval document mentioned above.

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



Helmy A. Makar
03/04/2009

NOA No. 08-0919.03
Expiration Date: 02/20/2014
Approval Date: 03/04/2009

Elite Aluminum Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #95-1219.04

A. DRAWINGS

Title E.P.S. Roof Panel
Number 95-681 Sheets 1 through 4
Signature V. John Knezevich, P.E.
Date 12/15/95
Revision Date 04/30/96

B. TESTS

Laboratory Construction Testing Corporation
Numbers 94-010 and 94-010 S
Type PA 202-94 and 24 Hour Live Load Test on 6 in. sandwich panel
Signature Christopher G. Tyson, P.E.
Date 01/25/95 and 04/11/95

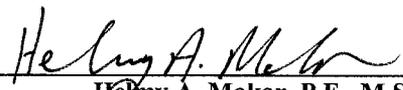
Laboratory Construction Testing Corporation
Numbers 94-013 and 94-012 S
Type PA 202-94 and 24 Hour Live Load Test on 4 in. sandwich panel
Signature C. G. Tyson, P.E.
Date 01/25/95 and 04/11/95

Laboratory Construction Testing Corporation
Number 94-012
Type PA 202-94 and 24 Hour Live Load Test on 3 in. sandwich panel
Signature C. G. Tyson, P.E.
Date 01/25/95

Laboratory QC Metallurgical, Inc.
Number 4LM-3150
Type Aluminum Tensile
Signature Frank Grate, P.E.
Date 01/04/95

C. CALCULATIONS

Title E.P.S. Roof System
Signature V. John Knezevich., P.E.
Date 04/13/95
Revision Date 05/09/96



Helmy A. Makar, P.E., M.S.

Product Control Examiner

NOA No. 08-0919.03

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Elite Aluminum Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0519.05

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Letter requesting renewal of NOA No. 95-1219.04 and stating that the product has not changed, prepared by Elite Aluminum Corporation, dated May 11, 1999, signed by Daniel Cooke.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0109.01

A. DRAWINGS

1. *Drawing No. 95-681 titled "E.P.S. Roof Panel", prepared by Knezevich & Associates, Inc., dated December 15, 1995, last revision #2 dated June 19, 2002, sheets 1 through 4 of 4, signed and sealed by V. John Knezevich., P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

E. STATEMENTS

1. *Letter prepared by Knezevich & Associates, Inc., dated October 10, 2002, signed and sealed by V. John Knezevich., P.E. stating that the product has not changed and the only revised is the general note referring to the Florida Building Code.*



Helmy A. Makar, P.E., M.S.

Product Control Examiner

NOA No. 08-0919.03

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Elite Aluminum Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-1121.05

A. DRAWINGS

1. *Drawing No. 05-539 titled " 3" or 6" Roof Panel ", prepared by Thornton Tomasetti, dated November 13, 2006, last revision #0 dated November 13, 2006, sheets 1 and 2 of 2, signed and sealed by J. W. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculation titled 3" & 6" EPS Roof Panels, prepared by Thornton Tomasetti, dated November 08, 2006, sheets 1 through 7 of 7, signed and sealed by John W. Knezevich, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION:

1. *None.*

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #08-0123.03

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

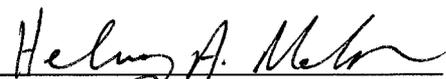
1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION:

1. *None.*



**Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-0919.03**

**Expiration Date: 02/20/2014
Approval Date: 03/04/2009**

Elite Aluminum Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *Test Report # HETI-07-4264, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
2. *Test Report # HETI-07-4265, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
3. *Test Report # HETI-07-4266, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
4. *Test Report # HETI-07-4271, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
5. *Test Report # HETI-07-4272, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
6. *Test Report # HETI-07-4411, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*
7. *Test Report # HETI-07-4412, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*
8. *Test Report # HETI-07-4413, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*
9. *Test Report # HETI-07-4414, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*
10. *Test Report # HETI-07-4415, prepared by Hurricane Engineering & Testing, Inc., per ASTM E 72-05, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*

C. CALCULATIONS

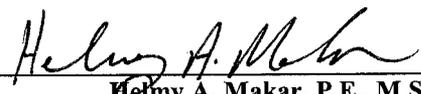
1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATION:

1. *Tensile Test, per ASTM E 8-01, test report # HETI-07-T743, dated 09/05/2007, signed and sealed by Candido F. Font, P.E.*
2. *Tensile Test, per ASTM E 8-01, test report # HETI-07-T766, dated 02/20/2008, signed and sealed by Candido F. Font, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
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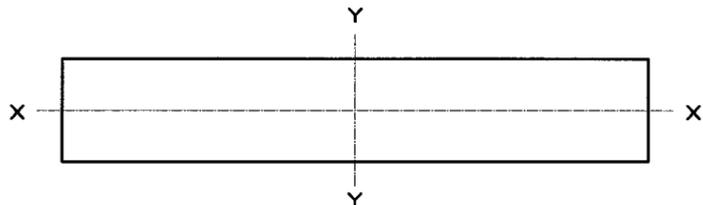
GENERAL NOTES:

- THESE APPROVAL DOCUMENTS REPRESENT AN EXPANDED POLYSTYRENE (EPS) COMPOSITE ROOF PANEL COMPONENT ANALYZED WITH THE PROVISIONS SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE 2004, WITH 2005 AMENDMENTS. THIS PRODUCT MEETS LARGE MISSILE IMPACT REQUIREMENTS.
- THE DESIGN CRITERIA PROVIDED DO NOT INCLUDE THE USE OF A 33% ALLOWABLE STRESS INCREASE WHEN DESIGNING WITH THIS EPS COMPOSITE ROOF COMPONENT.
- DESIGN IS BASED UPON CONSTRUCTION TESTING CORPORATION TEST REPORTS NO. 94-010, NO. 94-010S, NO. 94-012, NO. 95-023 & NO. 97-044 VERIFYING UNIFORM WIND LOAD CAPACITY, LARGE MISSILE IMPACT, CYCLIC LOAD CAPACITY AND DIAPHRAGM CAPACITY.
- THESE APPROVAL DOCUMENTS ARE PREPARED BY THE PRODUCT ENGINEER AND ARE GENERIC. THEY DO NOT INCLUDE INFORMATION PREPARED FOR A SPECIFIC SITE.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE APPROVAL DOCUMENTS PROVIDE SPECIFIC STRUCTURAL PROPERTIES FOR USE BY THE DESIGN PROFESSIONAL. WHERE STRUCTURAL PROPERTIES ARE NOT ADDRESSED, THE DESIGN PROFESSIONAL SHALL DESIGN THE ELEMENTS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. WHERE COMBINATIONS OF STRUCTURAL PROPERTIES ARE REQUIRED, THE DESIGN PROFESSIONAL SHALL DETERMINE THE APPROPRIATE INTERACTION EQUATIONS TO THE DESIGN VALUES PRESENTED HEREIN.
- THESE APPROVAL DOCUMENTS ARE ONLY FOR USE BY A LICENSED ENGINEER OR ARCHITECT ACTING AS A DELEGATED ENGINEER IN ACCORDANCE WITH THE FLORIDA ADMINISTRATIVE CODE, CHAPTER 61G15-36.003(3). THE DELEGATED ENGINEER SHALL NOT BE REQUIRED TO SUBMIT DELEGATED ENGINEERING DOCUMENTS TO THE PRODUCT ENGINEER AS THE DELEGATED ENGINEER IS WHOLLY RESPONSIBLE FOR THE SPECIFIC USE OF THE EPS COMPOSITE ROOF SYSTEM AND SHALL BE THE ENGINEER OF RECORD FOR ANY APPLICATION OF THE EPS COMPOSITE ROOF SYSTEM.
- THIS EPS COMPOSITE ROOF PANEL SYSTEM HAS NOT BEEN TESTED FOR AIR AND WATER INFILTRATION. AIR AND WATER INFILTRATION SHALL BE ADDRESSED ON SITE SPECIFIC APPLICATIONS WITH CODE APPROVED FINISHES.
- EPS COMPOSITE ROOF PANEL SHALL BE PERMANENTLY LABELED IN A VISIBLE MANNER AS FOLLOWS:

ELITE ALUMINUM CORPORATION
COCONUT CREEK, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N. SHAPES OF ALUMINUM STRUCTURAL MEMBERS SHALL BE AS SHOWN ON THIS DRAWING WITH WALL THICKNESSES AS SPECIFIED. EXTRUSION THICKNESSES MAY HAVE A TOLERANCE OF +0.0066", UNLESS SPECIFIED AS A MINIMUM.
- ALL BOLTS AND SCREWS SHALL BE 2024-T4 ALUMINUM ALLOY, ELECTRO-GALVANIZED STEEL, HOT DIPPED GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- ALUMINUM MEMBERS IN CONTACT WITH CONCRETE, WOOD OR OTHER DISSIMILAR METALS OR MATERIALS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 2003.8.4 OF THE FLORIDA BUILDING CODE.

ROOF PANELS STRUCTURAL PROPERTIES



PANEL THICKNESS	3"	6"
E _{ixx}	1.75 x 10 ⁷ LBS/IN ² x IN ⁴ /FT	5.16 x 10 ⁷ LBS/IN ² x IN ⁴ /FT
L _{max}	9' - 7"	13' - 10"
M _x (POS., NEG.)	865 LBS - FT/FT	1244 LBS - FT/FT
V _⊥	318 LBS/FT	403 LBS/FT
E _{lyy}	102.557 x 10 ⁷ LBS/IN ² x IN ⁴ /4FT PANEL	91.756 x 10 ⁷ LBS/IN ² x IN ⁴ /4FT PANEL
M _y	3617 LBS - FT/4FT PANEL	6300 LBS - FT/4FT PANEL
V _{//}	755 LBS/4FT PANEL	900 LBS/4FT PANEL

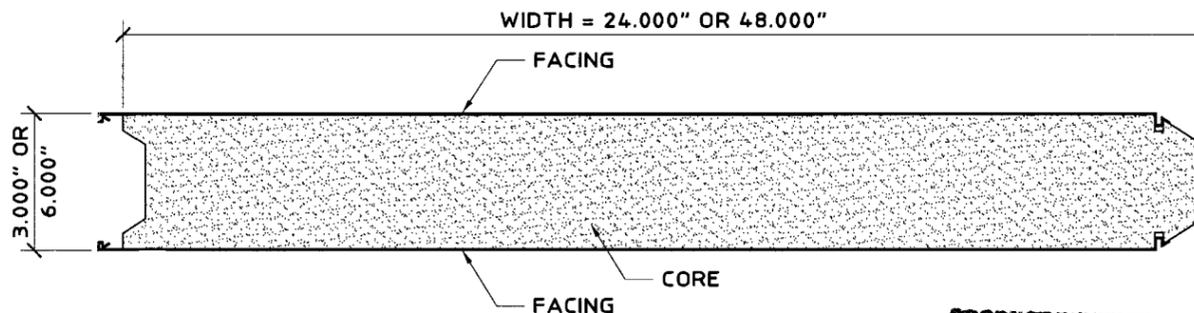
DIAPHRAGM CAPACITY

EPS ROOF PANEL SPECIFICATIONS:

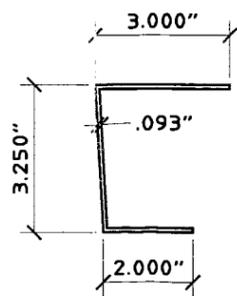
- PANELS SHALL BE COMPOSITE SANDWICH PANELS COMPRISED OF ALUMINUM FACINGS WITH EXPANDED POLYSTYRENE FOAM PLASTIC CORES.
- PANEL FACINGS SHALL BE 0.032" WITH OUT PAINT, ALUMINUM ALLOY 3105-H154.
- PANEL CORE SHALL BE EXPANDED POLYSTYRENE WITH THE NOMINAL DENSITY 2.0 PCF.
- ADHESIVE SHALL BE ISOGRIIP SP 2020D TYPE II, CLASS 2 BY ASHLAND CHEMICAL, APPLIED TO BOTH SIDES OF THE CORE MATERIAL.
- THE CORE OF THE EPS PANEL SHALL BE SEPARATED FROM THE INTERIOR OF ENCLOSED ROOMS BY 1/2" GYPSUM WALL BOARD OR APPROVED 15 MINUTE THERMAL BARRIER.

ROOF PANEL PROPERTIES:

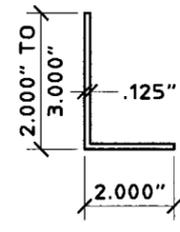
- THE "ROOF PANEL PROPERTIES" TABLE PROVIDES STRUCTURAL PROPERTIES FOR THE COMPOSITE ROOF PANEL SPECIFIED HEREIN. THESE PANEL PROPERTIES ARE BASED ON TESTING IN COMPLIANCE WITH MIAMI-DADE COUNTY TESTING PROTOCOLS AS DESCRIBED IN CONSTRUCTION TESTING CORPORATION TEST REPORT NO. 97-044.
- VALUES IN THIS TABLE SHALL BE USED TO DESIGN SITE SPECIFIC APPLICATIONS OF THIS PANEL. DESIGNS SHALL BE PERFORMED BY A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER PROFICIENT IN STRUCTURAL DESIGN.
- THE STRUCTURAL PROPERTIES PRESENTED ARE VALID ONLY WITH THE CONNECTIONS DETAILS SPECIFIED HEREIN.
- MOMENT AND SHEAR VALUES SPECIFIED ARE ALLOWABLE FORCES FOR ANY LOAD COMBINATIONS AND SHALL NOT BE INCREASED FOR WIND LOAD COMBINATIONS.
- E_{ixx} REPRESENTS THE EFFECTIVE STIFFNESS (MODULUS OF ELASTICITY TIMES MOMENT OF INERTIA) ABOUT THE X-AXIS TO BE USED IN SITE SPECIFIC DEFLECTION CALCULATIONS.
- M_x REPRESENTS THE ALLOWABLE BENDING MOMENT (POSITIVE OR NEGATIVE) ABOUT THE X-AXIS TO BE USED IN SITE SPECIFIC CALCULATIONS.
- L_{max} REPRESENTS THE MAXIMUM ALLOWABLE SINGLE SPAN TO BE USED IN SITE SPECIFIC LAYOUTS. SPANS GREATER THAN THIS ARE NOT ACCEPTABLE WITH RATIONAL ANALYSIS DUE TO THE UNKNOWN EFFECT OF THE ADDITIONAL UNBRACED LENGTH.
- V_⊥ REPRESENTS THE ALLOWABLE SHEAR (PERPENDICULAR TO THE PLANE OF THE PANEL, V_y) TO BE USED IN SITE SPECIFIC CALCULATIONS.
- M_y REPRESENTS THE ALLOWABLE BENDING MOMENT (POSITIVE OR NEGATIVE) ABOUT THE Y-AXIS TO BE USED IN SITE SPECIFIC DIAPHRAGM CALCULATIONS.
- V_{//} REPRESENTS THE ALLOWABLE SHEAR (PARALLEL TO THE PLANE OF THE PANEL, V_x) TO BE USED IN SITE SPECIFIC DIAPHRAGM CALCULATIONS.
- E_{lyy} REPRESENTS THE EFFECTIVE STIFFNESS (MODULUS OF ELASTICITY TIMES MOMENT OF INERTIA) ABOUT THE Y-AXIS TO BE USED IN SITE SPECIFIC DIAPHRAGM STIFFNESS CALCULATIONS.



① 3" ROOF PANELS
② 6" ROOF PANELS
SCALE: 3" = 1' - 0"



③ WALL HEADER
SCALE: 3" = 1' - 0"



④ CLIP ANGLE
SCALE: 3" = 1' - 0"

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 08-0919.03
Expiration Date 02/20/2014
By *Helmy A. Matar*
Miami Dade Product Control Division

PRODUCT RENEWED
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Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 06-1121.05
Expiration Date 02/20/2008
By *Helmy A. Matar*
Miami Dade Product Control Division

Thornton Tomasetti
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
T 954.522.3690 • F 954.522.3691 • COA # 7519
Website: www.ThorntonTomasetti.com
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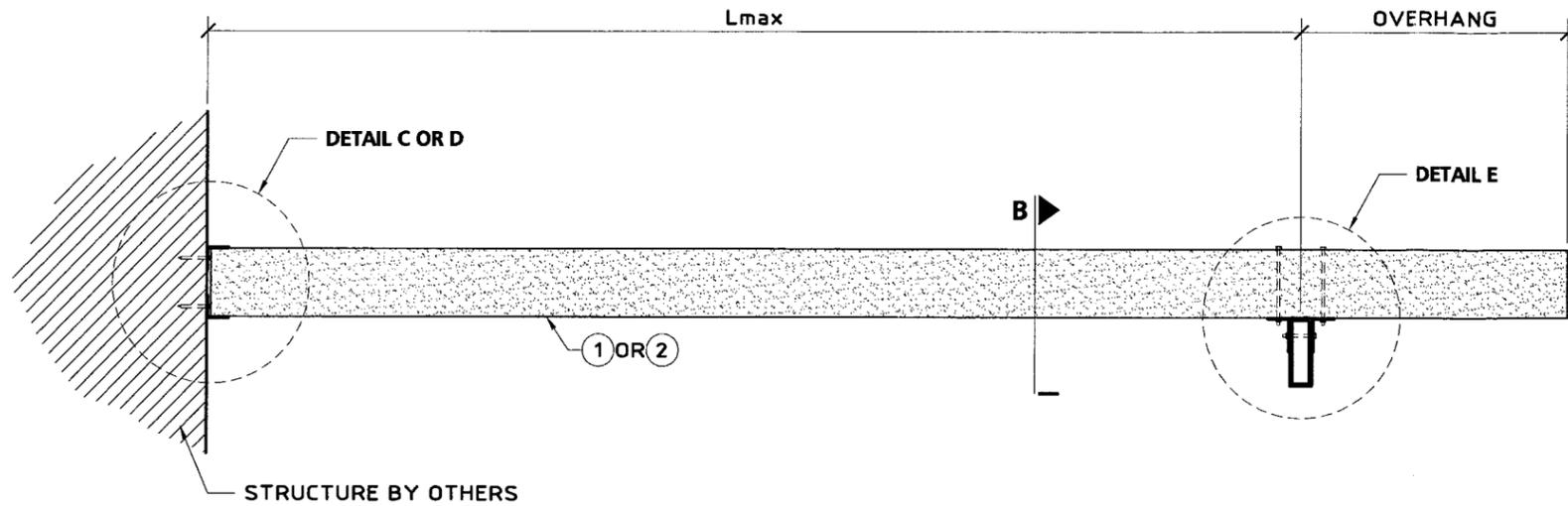
3' OR 6' ROOF PANELS
ELITE Aluminum Corporation
4650 Lyons Technology Parkway
Coconut Creek, FL 33073
(954) 949-3200

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

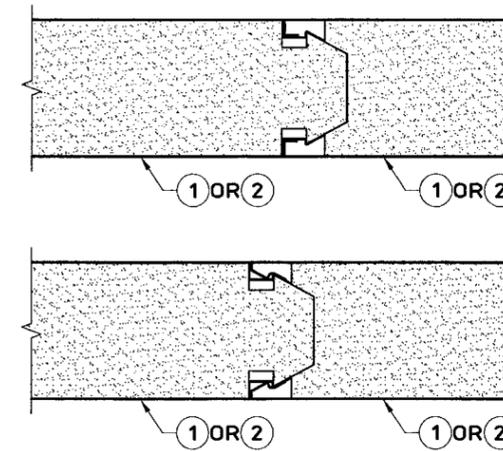
NOV 13 2006

no	date	by	description
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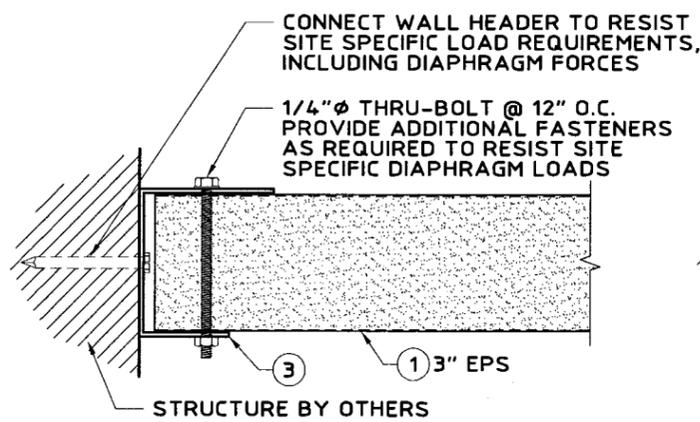
date 11/13/2006
scale AS NOTED
design by JWK
drawing no. 05-539
sheet 1 of 2



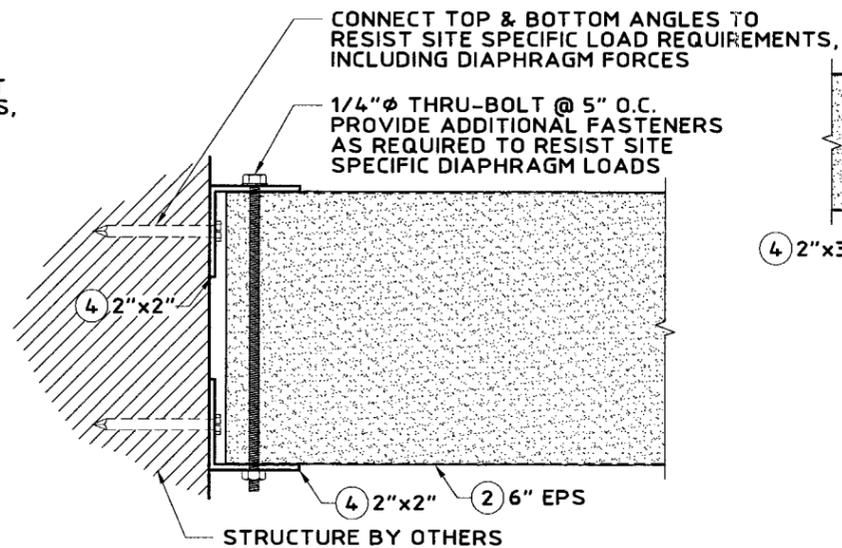
A SECTION
SCALE: 3/4" = 1' - 0"



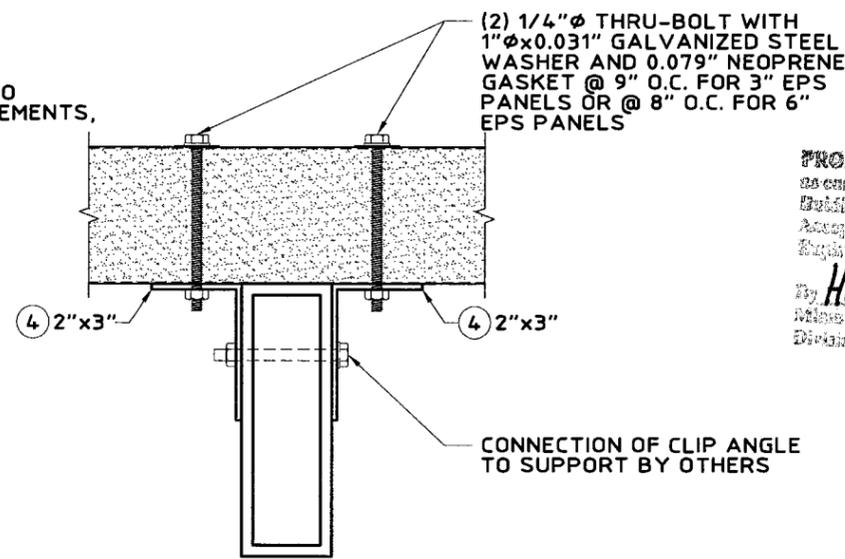
B ROOF PANELS CONNECTION - SECTION
SCALE: 3" = 1' - 0"



C 3" ROOF PANEL TO WALL HEADER (Vmax = SEE TABLE)
SCALE: 3" = 1' - 0"



D 6" ROOF PANEL TO CLIP ANGLES (Vmax = SEE TABLE)
SCALE: 3" = 1' - 0"



E ROOF PANELS TO BEAM - DETAIL
SCALE: 3" = 1' - 0"

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Thornton Tomasetti
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
T 954.522.3690 • F 954.522.3691 • COA # 7519
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3' OR 6' ROOF PANELS
ELITE Aluminum Corporation
4650 Lyons Technology Parkway
Coconut Creek, FL 33073
(954) 949-3200

J.W. Knezevich
Professional Engineer
FL License No.: PE 0041961

NOV 13 2006

no.	date	by	description
0	11/13/2006	TLE	PREVIOUSLY DRAWING NO. 95-681

date 11/13/2006
scale AS NOTED
design by JWK
checked by VJK
drawing no. 05-539
sheet 2 of 2