



**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.miamidade.gov](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Aluminum World, Inc.**  
**4401 East 10<sup>th</sup> Avenue**  
**Hialeah, Florida 33013**

**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: "Storm Guard " 0.063" Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. 06-071, titled " 0.063" Aluminum Storm Panel – Storm Guard ", sheets 1 through 7 of 7, prepared by Tilteco, Inc., dated April 19, 2006, last revision #1 dated April 19, 2006, signed and sealed by Walter A. Tillit Jr., 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**

**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 & revises NOA # 03-0206.07** and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

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



*Helmy A. Makar*  
 03/22/2007

**NOA No 06-0503.04**  
**Expiration Date: 03/22/2012**  
**Approval Date: 03/22/2007**

**Aluminum World, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #99-0304.04**

**A. DRAWINGS**

1. *Drawing prepared by Tilteco, Inc., titled "Storm Panel – Storm Guard", Drawing Number 99-69, dated February 24, 1999, sheets 1 through 7 of 7, signed and sealed by Walter A. Tillit Jr., P.E.*

**B. TESTS**

1. *None. (Tests originally in file 97-0723.06).*

**C. CALCULATIONS**

1. *None. (Calculations originally in file 97-0723.06).*

**D. MATERIAL CERTIFICATIONS**

1. *None. (Material certifications originally in file 97-0723.06).*

**E. OTHERS**

1. *An official corporate resolution issued by Mr. Scott Shaver, from Florida Metal Industries, Inc., dated February 19, 1999, rescinding any claim to the Notice of Acceptance no. 97-0723.06.*
2. *Letter issued by Walter T. Tillit, Jr., P.E., dated March 26, 1999, stating that all documents are unchanged copies of Florida Metal Industries, Inc. "Storm Panel – Storm Guard" submittals, Acceptance No. 97-0723.06.*

**F. NOTE**

1. *This approval, the same as Approval #97-0723.06, is issued to change the name from Florida Metal Industries, Inc., to Dynamic Window Shutters, Inc.*

**2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-1023.01**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

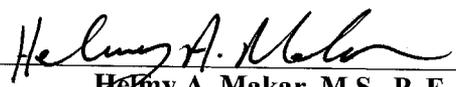
1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*



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

**Product Control Examiner**

**NOA No 06-0503.04**

**Expiration Date: 03/22/2012**

**Approval Date: 03/22/2007**

**Aluminum World, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. OTHERS**

1. Letter from Dynamic Window Shutters, Inc., dated October 19, 2000, signed by Mr. Rafael Rosado, certifies that the product has not changed.
2. Letter from Tilteco, Inc., dated October 19, 2000, signed and sealed by Walter A. Tillit Jr., P.E., certify that he is still in the engineering business.

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #01-1029.03**

**A. DRAWINGS**

1. Drawing No. 01-281, titled " Storm Panel – Storm Guard", prepared by Tilteco, Inc., dated October 08, 2001, sheets 1 through 7 of 7, signed and sealed by Walter A. Tillit Jr., P.E.

**B. TESTS**

1. None. (Tests originally in file 97-0723.06).

**C. CALCULATIONS**

1. None. (Calculations originally in file 97-0723.06).

**D. MATERIAL CERTIFICATIONS**

1. None. (Material certifications originally in file 97-0723.06).

**E. OTHERS**

1. An official corporate resolution issued by Mr. Francisco Rosado, from Aluminum World, Inc., dated October 24, 2001, rescinding any claim to the Notice of Acceptance no. 00-1023.01.
2. Letter issued by Walter T. Tillit, Jr., P.E., dated October 08, 2001, stating that drawing #01-281 prepared for Aluminum World, Inc. is engineering wise completely identical to drawing #99-69 of Dynamic Window Shutters, Inc.

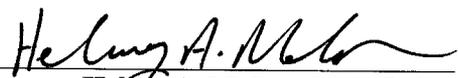
**F. NOTE**

1. This approval, the same as Approval #00-1023.01, is issued to change the name from Dynamic Window Shutters, Inc. to Aluminum World, Inc.

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0206.07**

**A. DRAWINGS**

1. Drawing No. 02-576, titled " Storm Panel – Storm Guard ", sheets 1 through 7 of 7, prepared by Tilteco, Inc., dated December 12, 2002, last revision #1 dated December 12, 2002 signed and sealed Walter A. Tillit, Jr., P.E.



**Henry A. Makar, M.S., P. E.**

**Product Control Examiner**

**NOA No 06-0503.04**

**Expiration Date: 03/22/2012**

**Approval Date: 03/22/2007**

**Aluminum World, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. MATERIAL CERTIFICATIONS**

1. *None.*

**E. STATEMENTS**

1. *Letter issued by Mr. Walter A. Tillit, Jr., P.E., dated December 17, 2002, indicating that the only change is update General Note numbers 1 & 10 to reference the Florida Building Code and ASCE 7-98.*

**5. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS:**

1. *Drawing No. 06-071, titled " 0.063" Aluminum Storm Panel – Storm Guard ", sheets 1 through 7 of 7, prepared by Tilteco, Inc., dated April 19, 2006, last revision #1 dated April 19, 2006, signed and sealed by Walter A. Tillit Jr., P.E.*

**B. TESTS:**

1. *None.*

**C. CALCULATIONS:**

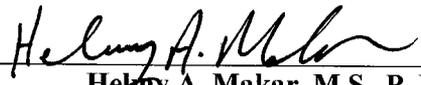
1. *Revised Anchor Calculation, sheets 1 through 50 of 50, dated 04/19/06, prepared by Tilteco, Inc., signed and sealed by Walter A. Tillit Jr., P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade building Code Compliance Office.*

**E. MATERIAL CERTIFICATION:**

1. *None.*



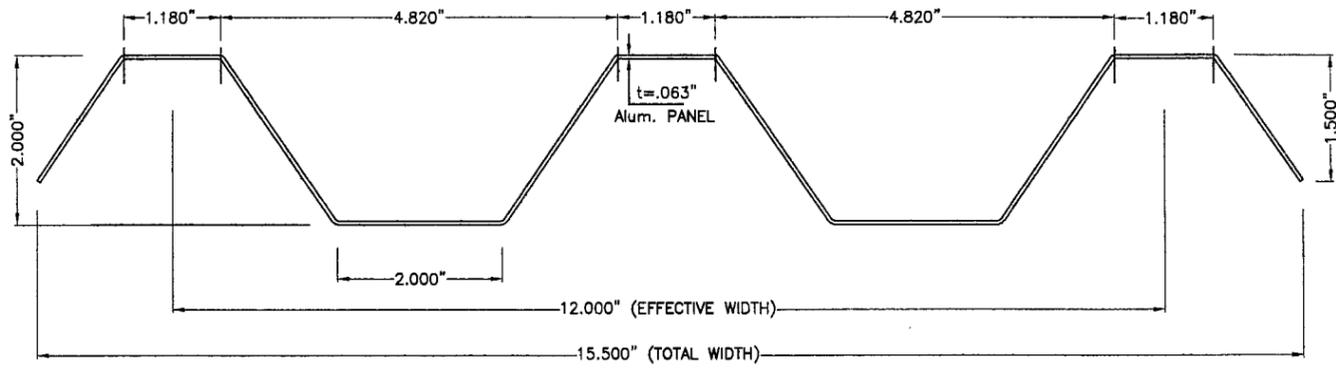
Henry A. Makar, M.S., P. E.

Product Control Examiner

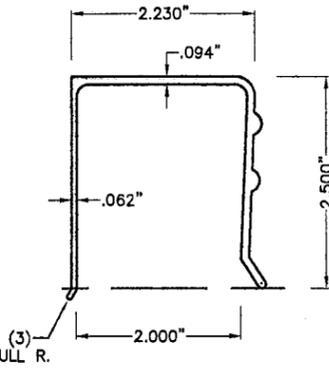
NOA No 06-0503.04

Expiration Date: 03/22/2012

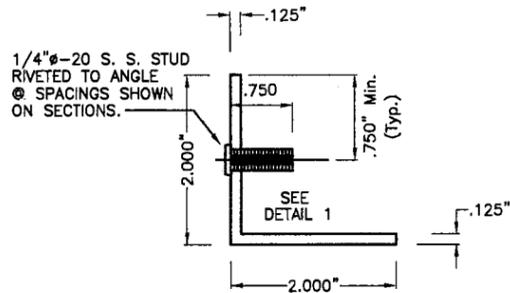
Approval Date: 03/22/2007



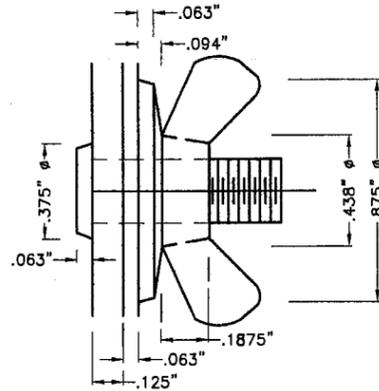
① PANEL



③ HEADER  
6063-T5 Alum. ALLOY

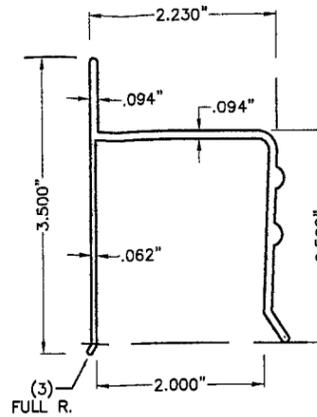


④ BASE ANGLE  
6063-T5 Alum. ALLOY

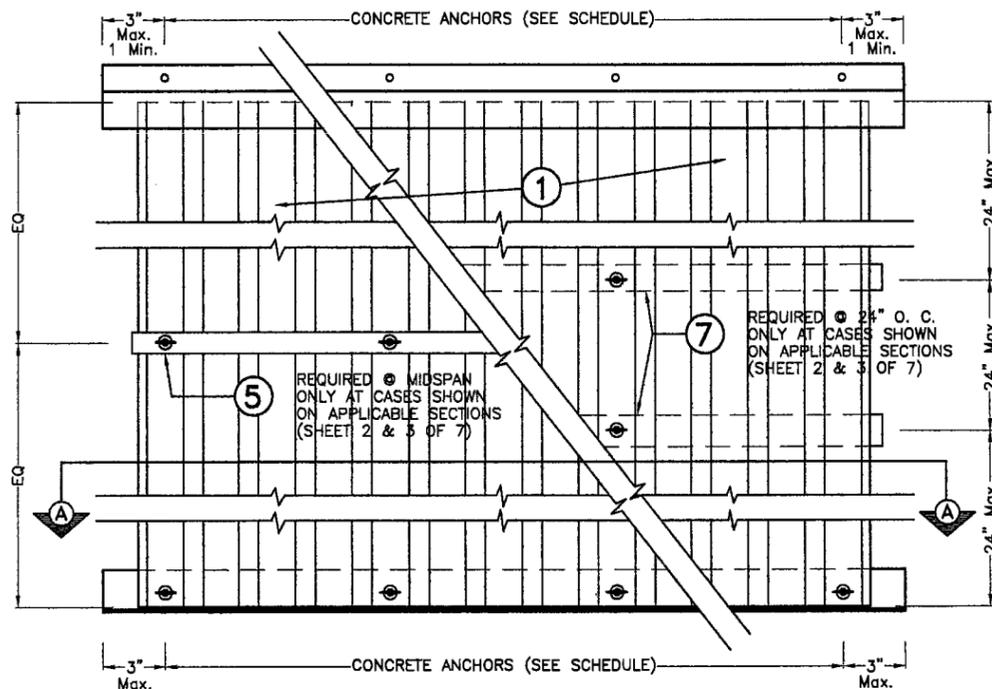
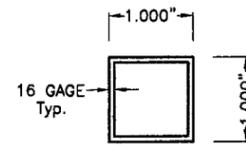


DETAIL 1: STUD W/ WING NUT

② HEADER  
6063-T5 Alum. ALLOY

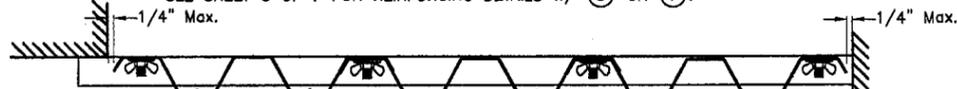


⑤ STEEL TUBE REINFORCEMENT  
ASTM A-653 W/  
FY = 33 ksi



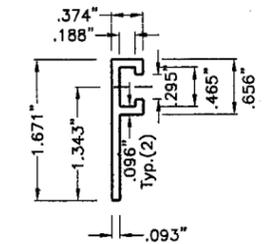
STORM PANEL TYPICAL ELEVATION

SEE SHEET 3 OF 7 FOR REINFORCING DETAILS W/ ⑤ OR ⑦.

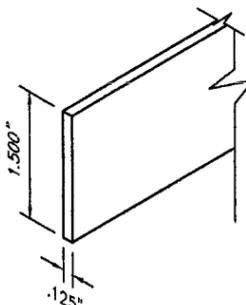


SECTION A-A

⑥ STUD PLATE



⑦ ALUMINUM STRAP



COMPONENTS

GENERAL NOTES:

1. STORM PANEL SHOWN ON THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) HAS BEEN VERIFIED FOR CODE COMPLIANCE IN ACCORDANCE WITH THE 2004 EDITION OF THE FLORIDA BUILDING CODE WITH THE 2005 SUPPLEMENT. DESIGN WIND LOADS SHALL BE DETERMINED AS PER SECTION 1620 OF THE ABOVE MENTIONED CODE. IN ORDER TO VERIFY THAT ANCHORS ON THIS P.A.D., AS TESTED, WERE NOT OVER STRESSED, A 33% INCREASE IN ALLOWABLE LOADS FOR WIND LOADS WAS NOT USED IN THEIR ANALYSIS. HOWEVER, FOR LAG SCREWS INTO WOOD, A 1.60 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREWS SPACINGS. STORM PANEL'S ADEQUACY FOR IMPACT AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.4 OF THE ABOVE MENTIONED CODE, PER PROTOCOLS 201, 202 & 203.

- ALL ALUMINUM SHEET METAL PANELS SHALL BE 5052-H32 ALLOY.
- ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6 ALLOY UNLESS OTHERWISE NOTED.
- ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 SERIES WITH 50 ksi YIELD STRENGTH AND 90 ksi TENSILE STRENGTH OR CORROSION RESISTANT COATED CARBON STEEL AS PER DIN 50018.
- BOLTS TO BE ASTM A-307 GALVANIZED STEEL OR AISI 304 SERIES STAINLESS STEEL, WITH 35 ksi MINIMUM YIELD STRENGTH.
- ANCHORS TO WALL SHALL BE AS FOLLOWS: (UNLESS OTHERWISE NOTED)
  - (A) TO EXISTING POURED CONCRETE:
    - 1/4" Ø TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDEX.
    - 1/4" Ø x 7/8" CALK-IN ANCHORS, AS MANUFACTURED BY POWERS FASTENERS, INC.
  - (B) TO EXISTING CONCRETE BLOCK WALL:
    - 1/4" Ø TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDEX.
    - 1/4" Ø x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWERS FASTENERS, INC.

NOTES:

- MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO CONCRETE SHALL BE 1 3/4".
- 1/4" Ø x 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE POURED CONCRETE. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST.
- IN CASE THAT PRECAST STONE, PRECAST CONCRETE PANELS, OR PAVERS BE FOUND ON THE EXISTING WALL OR FLOOR, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS, ANCHORAGE SHALL BE 1 3/4" MINIMUM FOR ANCHORS MENTIONED IN A.1), & 7/8" FOR ANCHORS MENTIONED IN A.2).

(B) TO EXISTING CONCRETE BLOCK WALL:

- 1/4" Ø TAPCON ANCHORS, AS MANUFACTURED BY I.T.W. BUILDEX.
- 1/4" Ø x 7/8" CALK-IN ANCHORS AS MANUFACTURED BY POWERS FASTENERS, INC.

NOTES:

- MINIMUM EMBEDMENT OF TAPCON ANCHORS INTO THE CONCRETE BLOCK UNIT SHALL BE 1 1/4".
- 1/4" Ø x 7/8" CALK-IN ANCHORS SHALL BE ENTIRELY EMBEDDED INTO THE CONCRETE BLOCK UNIT. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. 1/4" Ø-20 SCREWS USED SHALL BE 1 1/2" LONG MINIMUM SHOULD STUCCO EXIST, AND 1" MINIMUM FOR WALLS WITH NO STUCCO.
- IN CASE THAT PRECAST STONE OR PRECAST CONCRETE PANELS BE FOUND ON THE EXISTING WALL, ANCHORS SHALL BE LONG ENOUGH TO REACH THE MAIN STRUCTURE BEHIND SUCH PANELS. ANCHORAGE SHALL BE 1 1/4" MINIMUM FOR ANCHORS MENTIONED IN B.1). & 7/8" FOR ANCHORS MENTIONED IN B.2).

(C) ANCHORS SHALL BE INSTALLED FOLLOWING ALL OF THE RECOMMENDATIONS AND SPECIFICATIONS OF THE ANCHOR'S MANUFACTURER.

7. PANELS MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN ON SECTIONS 2, 2A, 3, 6 & 6A (SHEET 2 & 3 OF 7).

8. EACH PANEL SHALL HAVE A LEGIBLE AND READILY VISIBLE MARKING INSTRUCTING OWNER OR TENANT TO SECURE PANELS WITH APPLICABLE REINFORCEMENT DURING PERIODS OF HURRICANE WARNING.

9. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SOUNDNESS OF THE STRUCTURE WHERE SHUTTER IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE. THIS PANEL SHALL ONLY BE ATTACHED TO CONCRETE, BLOCK OR WOOD FRAMES BUILDINGS.

10. (A) THIS PRODUCT APPROVAL DOCUMENT (P.A.D.) PREPARED BY THIS ENGINEER IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SITE SPECIFIC PROJECT; I.E. WHERE THE SITE CONDITIONS DEVIATE FROM THE P.A.D.

(B) CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION INCLUDING LIFE SAFETY OF THIS PRODUCT BASED ON THIS P.A.D. PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT. CONSTRUCTION SAFETY AT SITE IS THE CONTRACTOR'S RESPONSIBILITY.

(C) THIS PRODUCT APPROVAL DOCUMENT WILL BE CONSIDERED INVALID IF MODIFIED.

(D) SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.A.D. ENGINEER OF RECORD, ACTING AS DELEGATED ENGINEER TO THE P.A.D. ENGINEER, SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

(E) THIS P.A.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER THAT PREPARED IT.

11. SHUTTER MANUFACTURER'S LABEL SHALL BE PLACED AT BOTTOM OF EACH PANEL. LABEL SHALL READ AS FOLLOWS:  
ALUMINUM WORLD, INC.  
HIALEAH, FLORIDA  
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED.

Approved as complying with the  
Florida Building Code  
Date 03/22/2007  
NOA# 06-0563-04  
Miami Dade Product Control  
Division  
By Helmut A. Mohr

F.B.C. (High Velocity Hurricane Zone)

CORPORATE SEAL \*

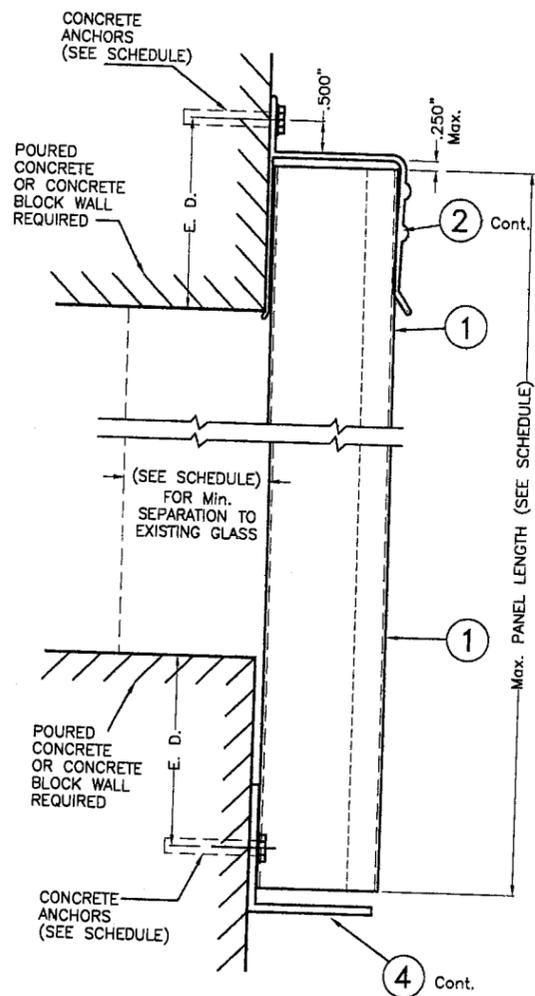
**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166  
Phone : (305)871-1530 • Fax : (305)871-1531  
EB-0006719  
WALTER A. TILLIT JR., P. E.  
FLORIDA Lic. 44167

0.063" ALUMINUM STORM PANEL-"STORM GUARD"			L.G. DRAWN BY:		
ALUMINUM WORLD, INC. 4401 E. 10 AVENUE HIALEAH, FL 33013. PHONE: (305)825-1355 , FAX: (305)825-1356			4/19/06 DATE		
			06-071 DRAWING No		
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 01-281	4/19/06	3	-	-
2	-	-	4	-	-

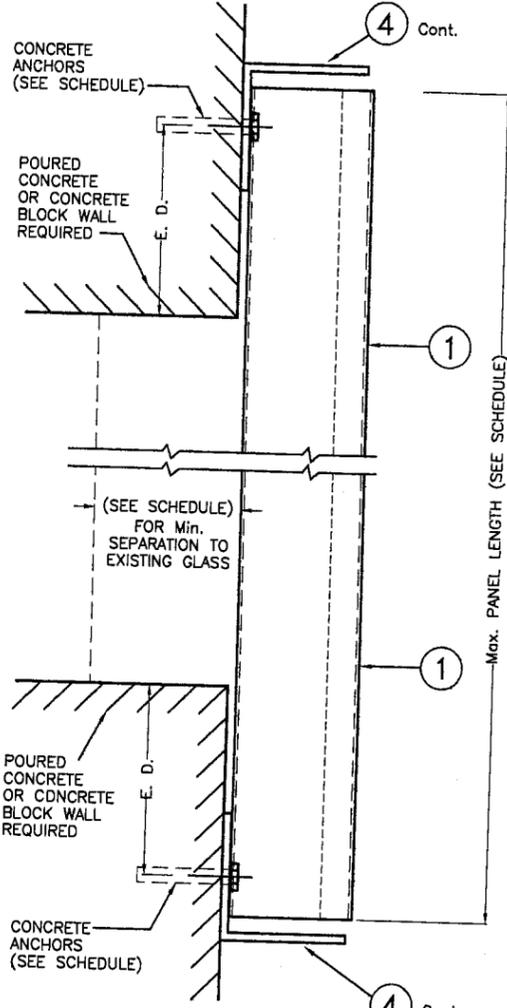
\* ATTN. BLDG. OFFICIALS DO NOT ACCEPT THIS DRAWING W/O ALUMINUM WORLD, INC. RAISED CORPORATE SEAL

APR 27 2006

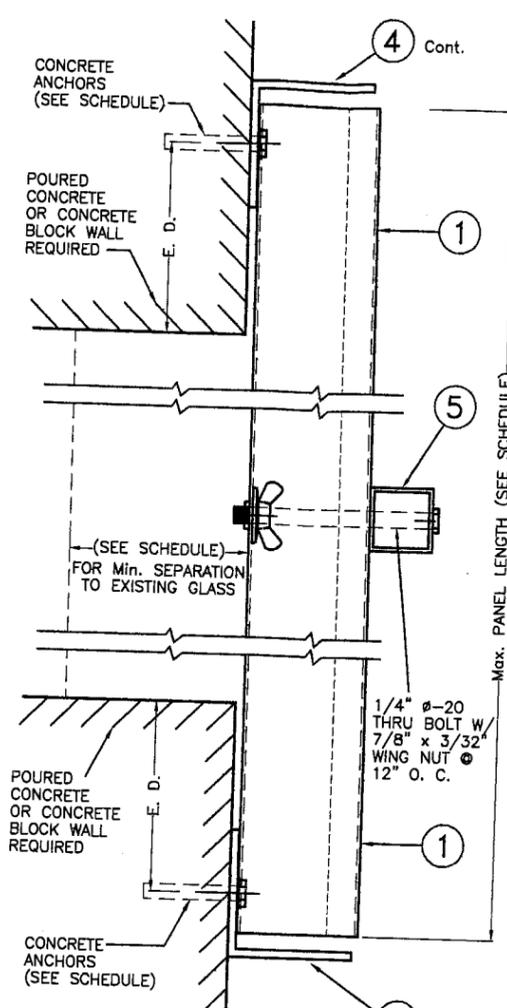
SHEET 1 OF 7



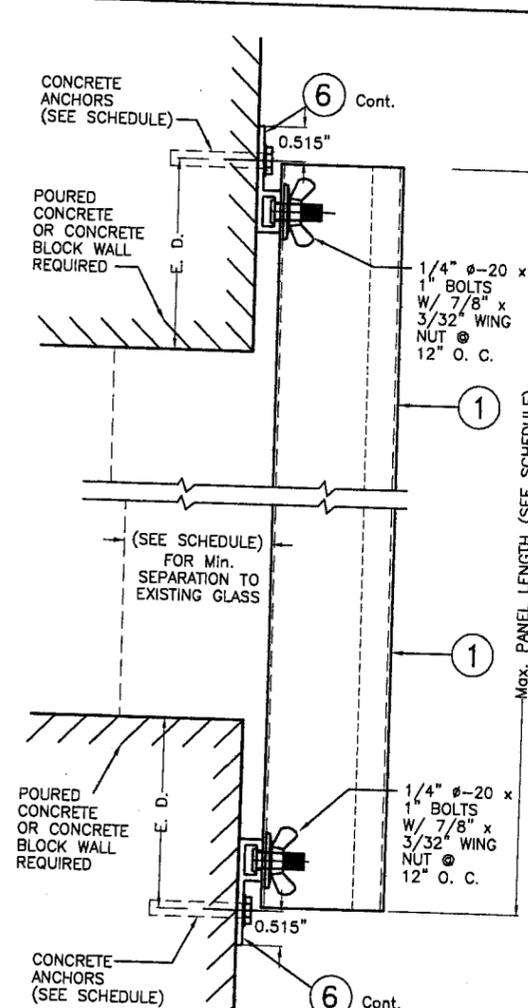
SECTION @ ANCHOR



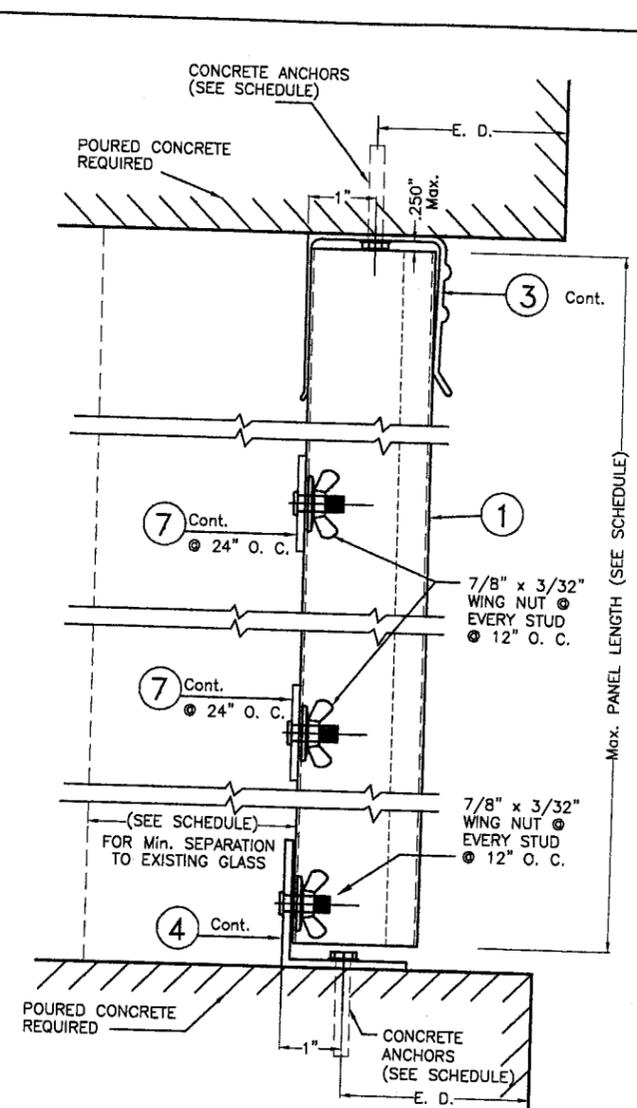
WALL MOUNTING INSTALLATION - SECTION 2



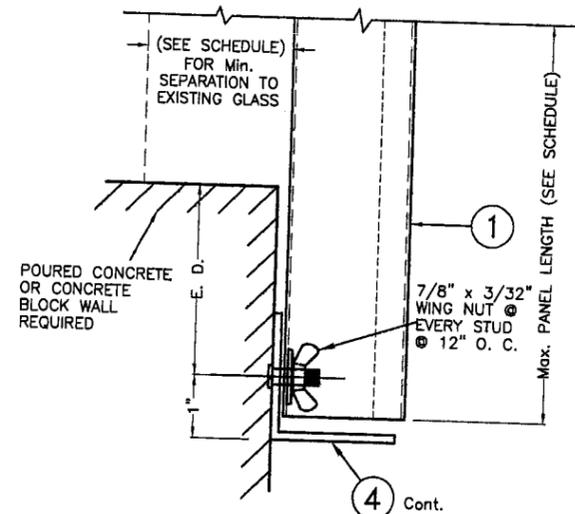
SECTION @ ANCHOR



WALL MOUNTING INSTALLATION - SECTION 3



CEILING & FLOOR MOUNT. INSTALL. - SECTION 4

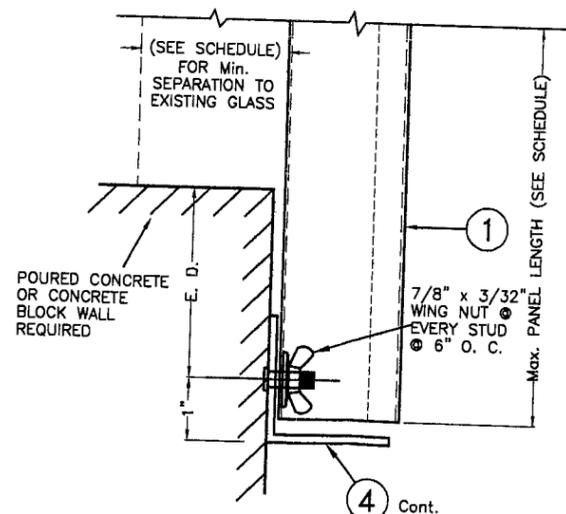


SECTION @ STUD

WALL MOUNTING INSTALLATION - SECTION 1

NOTE: DETAIL OF SECTION @ STUD VALID ALSO FOR WALL MOUNTING INSTALLATION - SECTION 2

E. D. = EDGE DISTANCE (SEE SCHEDULE ON SHEET 5 OF 7)



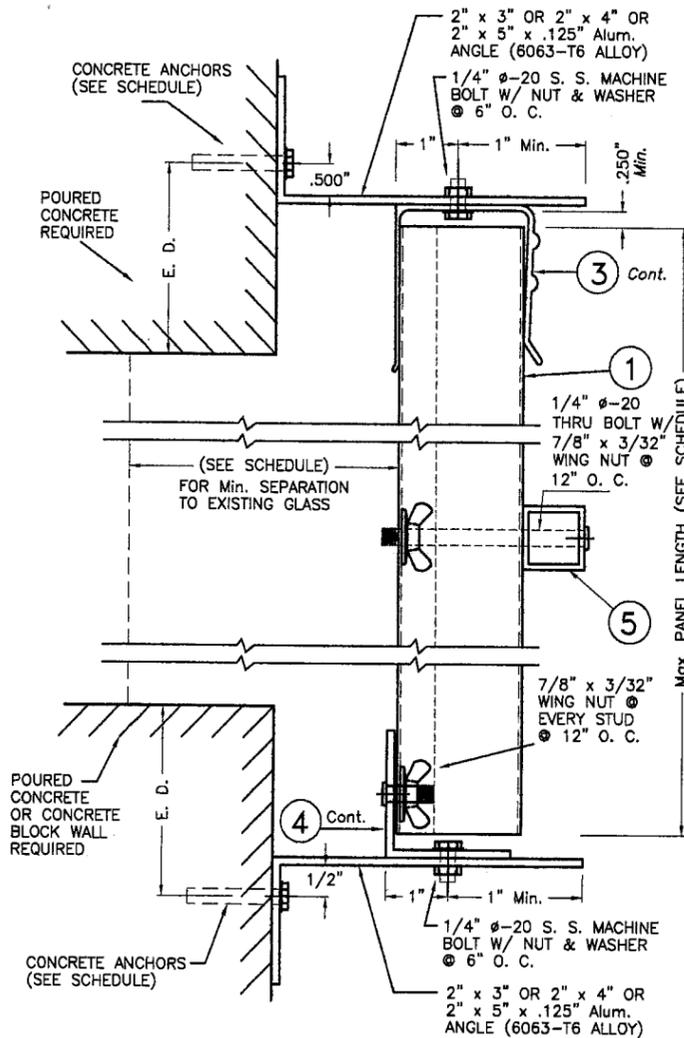
SECTION @ STUD

WALL MOUNTING INSTALLATION - SECTION 2A

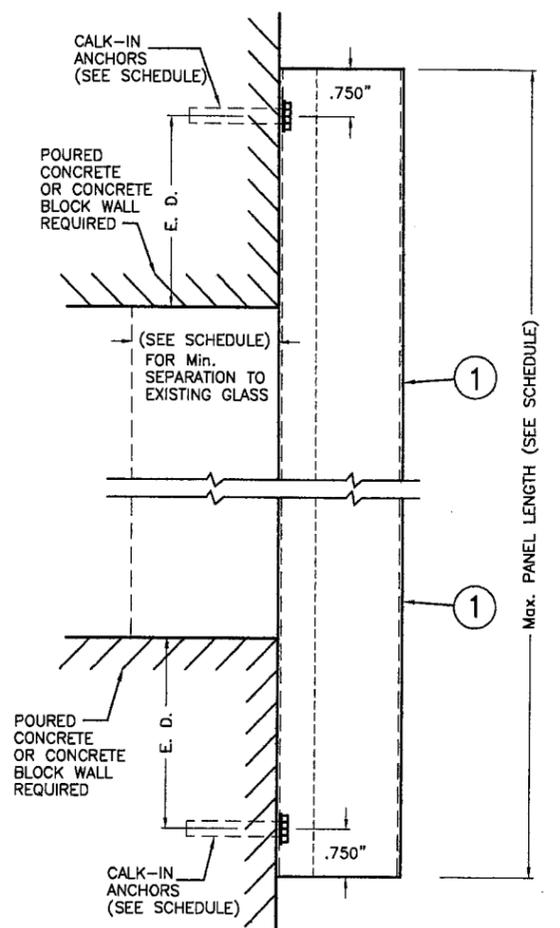
Approved as complying with the Florida Building Code  
 Date: 03/22/2007  
 NOA# 06-0503.04  
 Miami Code Product Control Division  
 By: Helmut A. Klaber

APR 27 2006

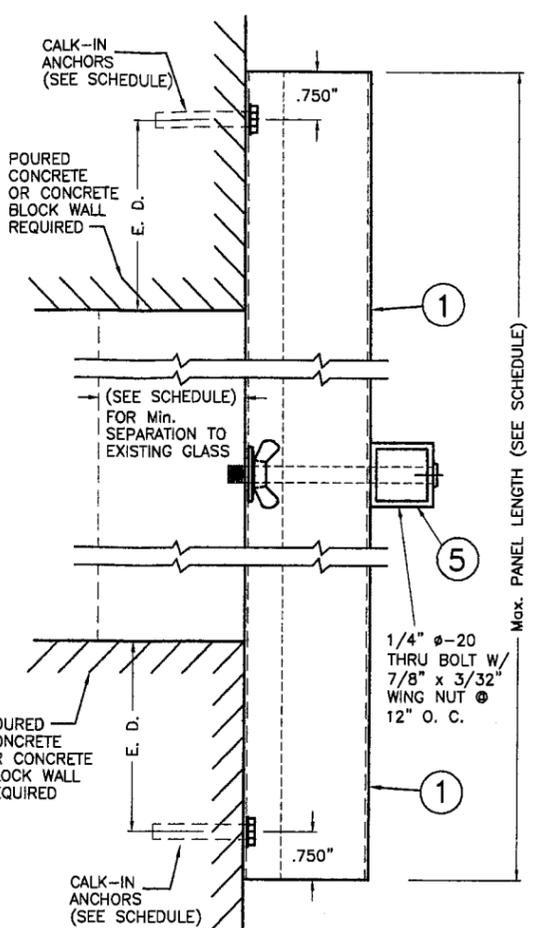
<p>TILECO Inc.        TILLIT TESTING &amp; ENGINEERING COMPANY        6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166        Phone: (305)871-1530, Fax: (305)871-1531        EB-0006719        WALTER A. TILLIT Jr., P. E.        FLORIDA Lic. 44167</p>		<p>F.B.C. (High Velocity Hurricane Zone)</p> <p>0.063" ALUMINUM STORM PANEL-"STORM GUARD"</p> <p><b>ALUMINUM WORLD, INC.</b>        4401 E. 10 AVENUE        HIALEAH, FL 33013.        PHONE: (305)825-1355, FAX: (305)825-1356</p>		<p>L.G.        DRAWN BY:        4/19/06        DATE</p>
<p>REV. NO. DESCRIPTION DATE REV. No DESCRIPTION DATE</p> <p>1 OLD 01-281 4/19/06 3 - -</p> <p>2 - - - 4 - -</p>		<p>06-071        DRAWING No</p>		
		<p>SHEET 2 OF 7</p>		



**BUILD-OUT MOUNTING INSTALLATION  
- SECTION 5**



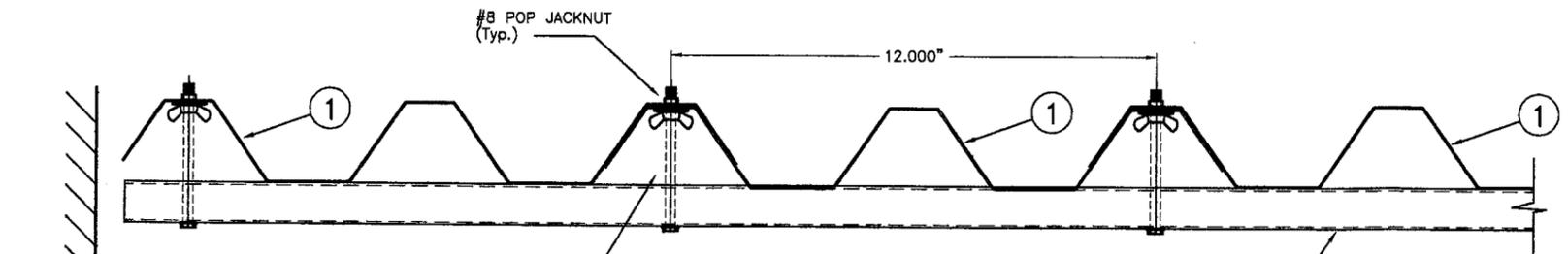
**WALL MOUNTING INSTALLATION  
(DIRECT MOUNT) - SECTION 6**



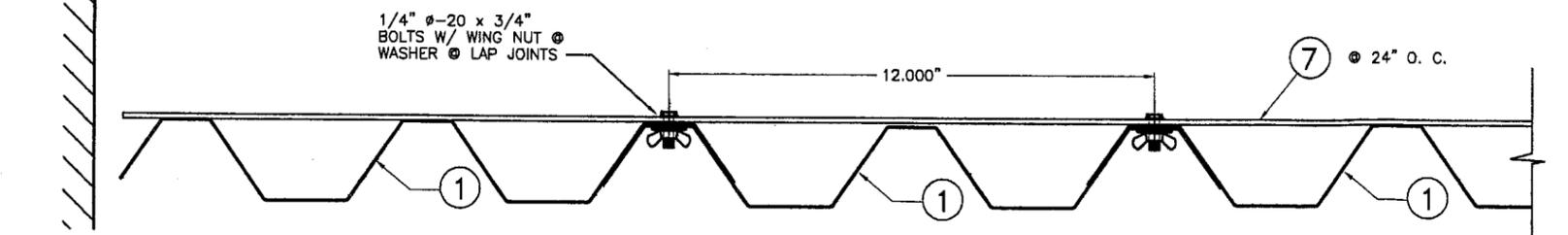
**WALL MOUNTING INSTALLATION  
(DIRECT MOUNT) - SECTION 6A**

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND  
CORRESPONDING MAXIMUM SPAN "L" SCHEDULE**

MAXIMUM DESIGN LOAD W (p.s.f.)	Max. PANEL LENGTH L (ft.)	MINIMUM SEPARATION TO GLASS	APPLICABLE TO SECTIONS # (SEE SHEET 2 & 3 OF 7)
+58.0, -76.0	8'-10 1/4"	2 11/16"	1
+72.0, -72.0	8'-9"	2 1/2"	2
+57.2, -75.7	12'-0"	2 3/4"	2A
+52.0, -56.0	8'-10 1/8"	2 7/8"	3
+50.0, -72.0	7'-7 1/2"	2"	4
+72.0, -72.0	8'-6"	2 1/2"	5
+58.0, -76.0	5'-10"	2 7/8"	6
+72.0, -72.0	8'-3"	2 1/2"	6A



**PANEL REINFORCING DETAIL W/ (5)**



**PANEL REINFORCING DETAIL W/ (7)**

E. D. = EDGE DISTANCE  
(SEE SCHEDULE  
ON SHEET 5 OF 7)

Approved as complying with the  
Florida Building Code  
Date 03/22/2007  
NOA# 06-0503.04  
Miami Dade Product Control  
Division  
By *Helmut Adler*

APR 27 2006

**TILTECO INC.**  
TILLIT TESTING & ENGINEERING COMPANY  
6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166  
Phone: (305)871-1530 Fax: (305)871-1531  
EB-0006719  
WALTER A. TILLIT Jr., P. E.  
FLORIDA Lic. 44167

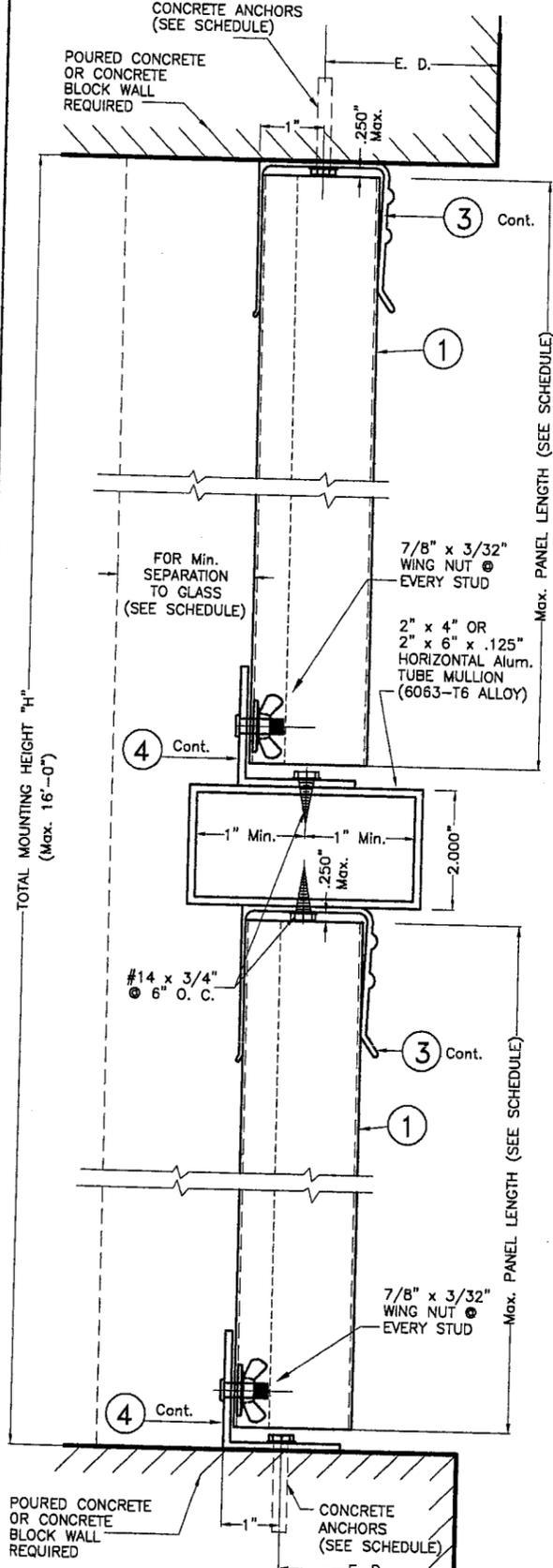
F.B.C. (High Velocity Hurricane Zone)

0.063" ALUMINUM STORM PANEL-"STORM GUARD"

L.G.  
DRAWN BY:  
4/19/06  
DATE  
06-071  
DRAWING No

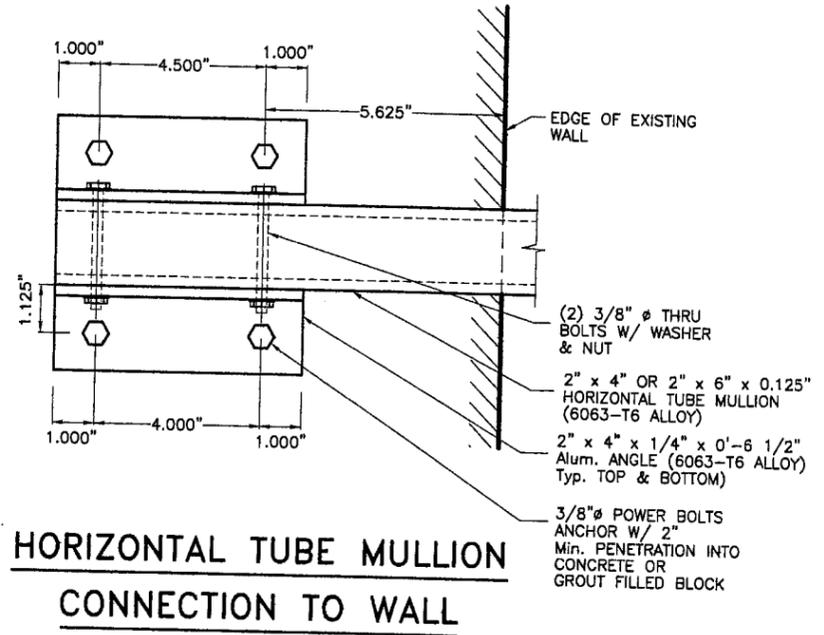
REV. NO	DESCRIPTION	DATE	REV. NO	DESCRIPTION	DATE
1	OLD 01-281	4/19/06	3	-	-
2	-	-	4	-	-

SHEET 3 OF 7



**SPLIT PANEL MOUNTING INSTALLATION - SECTION 7**

NOTE: FLOOR & CEILING MOUNT INSTALLATIONS SHOWN. FOR DIFFERENT MOUNTING INSTALLATIONS SEE TYPICAL SECTIONS ON SHEET 2 & 3 OF 7.

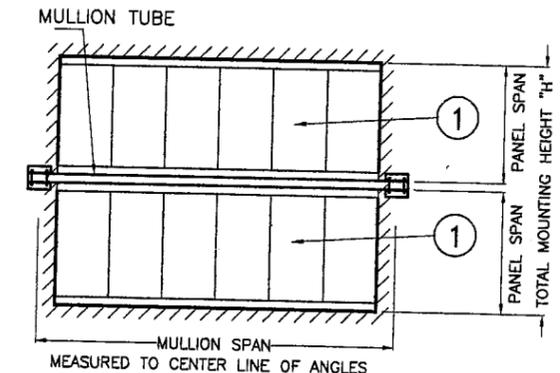


**HORIZONTAL TUBE MULLION CONNECTION TO WALL**

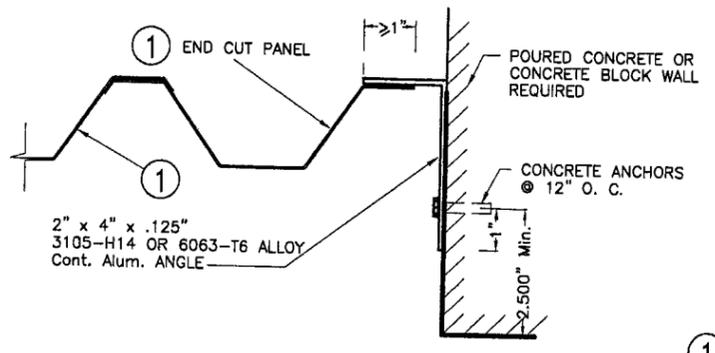
**MAXIMUM MULLION SPAN (HORIZONTALLY) SCHEDULE FOR SPLIT PANEL INSTALLATION**

MAXIMUM DESIGN LOAD "W" (p.s.f.)	TOTAL MOUNTING HEIGHT "H"			
	< 10'-0"	10' < H < 12'	12' < H < 14'	14' < H < 16'
50	7'-0"	6'-7"	6'-3"	6'-0"
	9'-11"	9'-3"	8'-7"	8'-0"
60	6'-7"	6'-3"	5'-11"	5'-6"
	9'-3"	8'-6"	7'-10"	7'-4"
66	6'-5"	6'-0"	5'-7"	5'-3"
	8'-10"	8'-1"	7'-6"	7'-0"

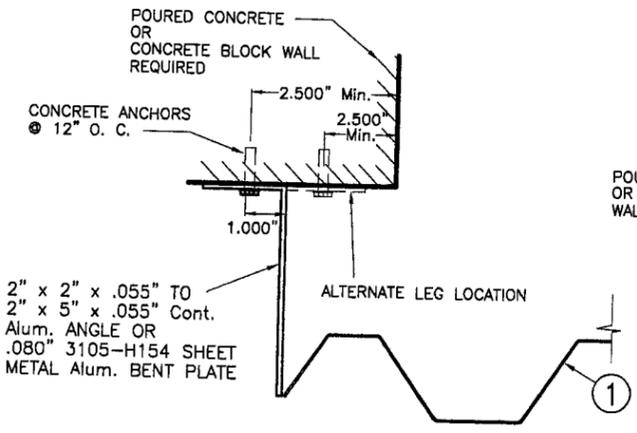
2"x4"x1/8" TUBE  
2"x6"x1/8" TUBE



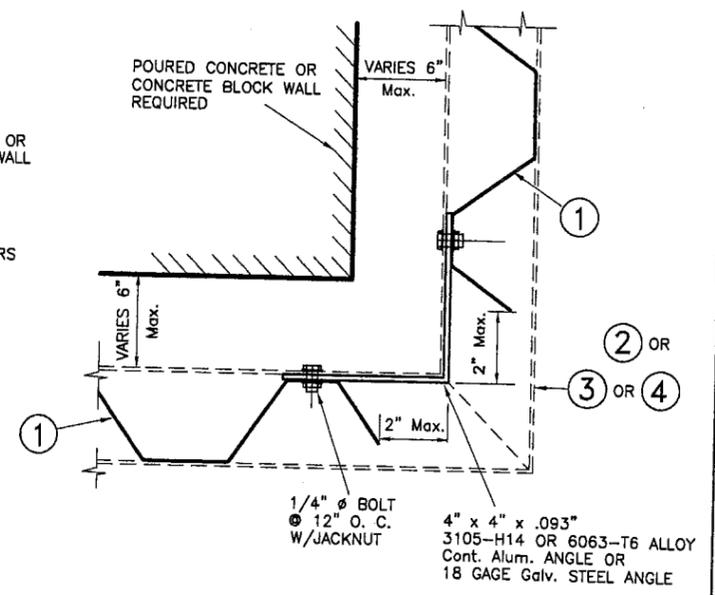
**TYPICAL SPLIT PANEL INSTALLATION ELEVATION MULLION TUBE ON FACE MOUNT**



**CASE A (Plan)**



**CASE C (Plan)**



**CASE B (Plan)**

**CASE D (Plan)**

**END CLOSURES DETAILS**

E. D. = EDGE DISTANCE (SEE SCHEDULE ON SHEET 5 OF 7)

Approved as complying with the Florida Building Code  
Date: 03/22/2007  
NOA# 06-0563-04  
Miami Code Product Control  
Division  
By: *Helmut Adlhuber*

APR 27 2006

 <b>TILLIT TESTING &amp; ENGINEERING COMPANY</b> 6355 N.W. 36th St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone: (305)871-1530 Fax: (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. 44167		F.B.C. (High Velocity Hurricane Zone) 0.063" ALUMINUM STORM PANEL-"STORM GUARD" <b>ALUMINUM WORLD, INC.</b> 4401 E. 10 AVENUE HIALEAH, FL 33013 PHONE: (305)825-1355 FAX: (305)825-1356		L.G. DRAWN BY: 4/19/06 DATE 06-071 DRAWING No SHEET 4 OF 7	
REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE
1	OLD 01-281	4/19/06	3	-	-
2	-	-	4	-	-

**MAXIMUM DESIGN PRESSURE RATING "W" (p.s.f.) AND CORRESPONDING MAXIMUM ANCHOR SPACING SCHEDULE FOR INSTALLATIONS INTO CONCRETE AND CONCRETE BLOCK STRUCTURES \***

E. D. = EDGE DISTANCE

MAXIMUM DESIGN LOAD W (p.s.f.)	MAXIMUM ANCHORS SPACING FOR E. D. = 3 1/2" **				APPLICABLE TO SECTIONS # & ANY COMBINATION OF THEM	MAXIMUM PANEL LENGTH "L" (ft.)
	TAPCONS		CALK-IN			
	TO CONCRETE	TO CONCRETE BLOCK	TO CONCRETE	TO CONCRETE BLOCK		
+58.0, -76.0	6"	-	6"	-	1 (TOP)	8'-10 1/4" OR LESS
	6"	5"	6"	6"	1 (BOTTOM)	
+72.0, -72.0	6"	5 1/2"	6"	6"	2 (TOP/BOTTOM)	8'-9" OR LESS
+57.2, -75.7	6"	4"	6"	5 1/2"	2A (TOP/BOTTOM)	12'-0" OR LESS
+52.0, -56.0	6"	6"	6"	6"	3 (TOP/BOTTOM)	8'-10 1/8" OR LESS
+50.0, -72.0	6"	-	6"	-	4 (TOP)	7'-7 1/2" OR LESS
	6"	-	6"	-	4 (BOTTOM)	
+72.0, -72.0	6"	-	6"	-	5 (TOP)	8'-6" OR LESS
	6"	6"	6"	6"	5 (BOTTOM)	
+58.0, -76.0	-	-	12" ***	12" ***	6 (TOP/BOTTOM)	5'-9" OR LESS
+72.0, -72.0	-	-	12" ***	6"	6A (TOP/BOTTOM)	8'-3" OR LESS

- \* SEE SHEET 6 & 7 OF 7 FOR ANCHORS TYPE & SPACING FOR INSTALLATIONS INTO WOOD FRAME BUILDINGS.
- \*\* MAXIMUM ANCHOR SPACINGS ARE VALID FOR 3 1/2" EDGE DISTANCE. FOR E. D. LESS THAN 3 1/2", REDUCE ANCHOR SPACING BY MULTIPLYING SPACINGS SHOWN ON SCHEDULE BY THE FOLLOWING FACTORS.  
(NOTE : Min. E. D. FOR CALK-IN ANCHORS IS 2 1/2"). THIS OPERATION SHALL ONLY BE PERFORMED WHEN REQUIRED SPACING RESULTS INTO A MINIMUM OF 3".
- \*\*\* DIRECT MOUNT CONNECTION TO WALL W/ ANCHORS AT 12" O. C. SHALL ALWAYS BE PERFORMED W/ 3 1/2" EDGE DISTANCE (E. D.). USE MAXIMUM ANCHORS SPACING OF 6" O. C. FOR DIRECT MOUNT INSTALLATION WHERE E. D. IS LESS THAN 3 1/2" WITH A MINIMUM OF 2 1/2".

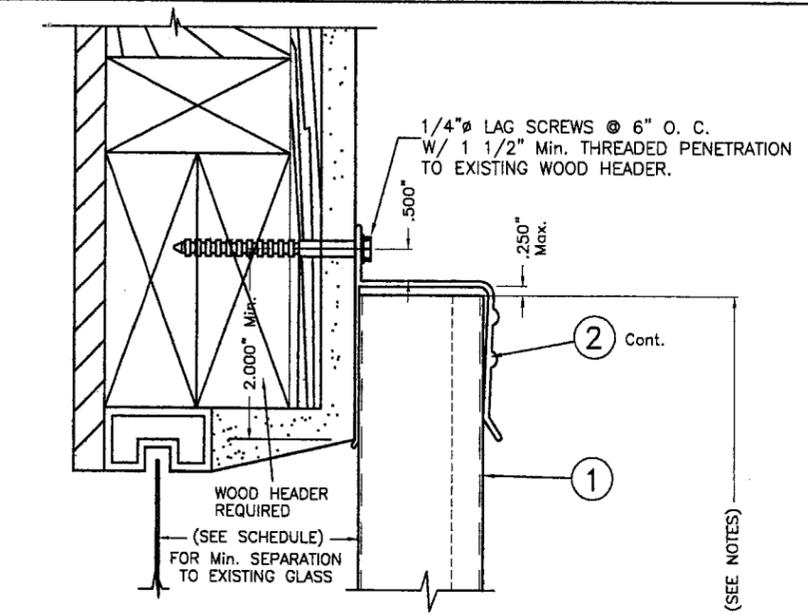
ACTUAL E. D.	FACTOR	
	TAPCON	CALK-IN
3"	.86	.75
2 1/2"	.71	.50
2"	.50	-

Approved as complying with the Florida Building Code  
 Date: 03/22/2007  
 NOA# 06-0563-04  
 Miami Dade Product Control Division  
 By: *Helmy A. Helmy*

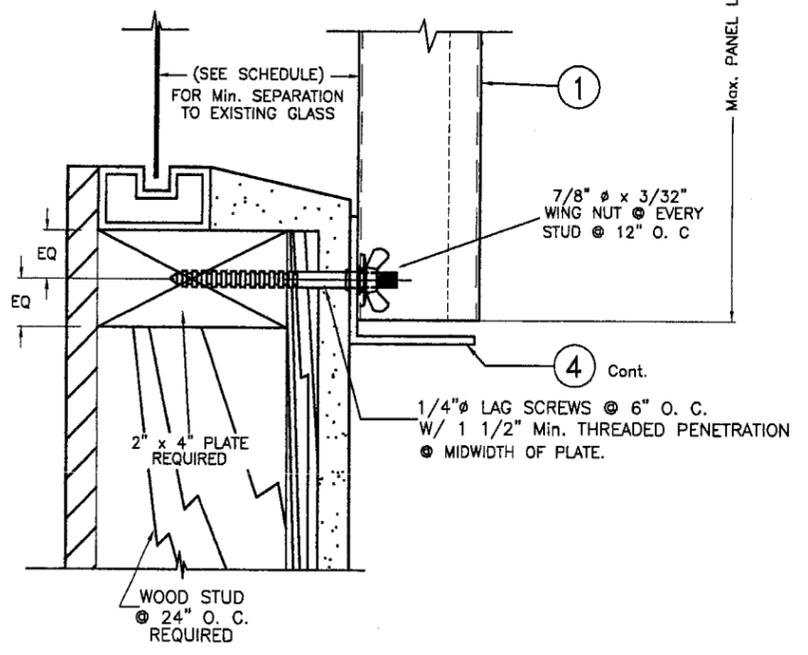
F.B.C. (High Velocity Hurricane Zone)

*[Signature]*  
 APR 27 2006

 <b>TILTECO INC.</b> TILLIT TESTING & ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. 44167	0.063" ALUMINUM STORM PANEL-"STORM GUARD"	L.G. DRAWN BY:																		
	<b>ALUMINUM WORLD, INC.</b> 4401 E. 10 AVENUE HIALEAH, FL 33013. PHONE: (305)825-1355 , FAX: (305)825-1356	4/19/06 DATE																		
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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE															
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ALTERNATIVE 1



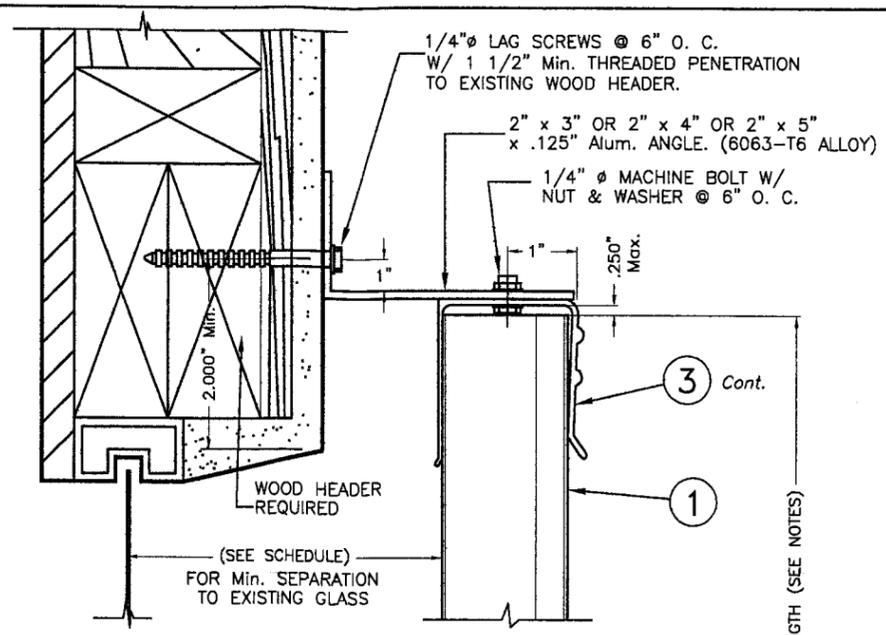
ALTERNATIVE 2

WALL MOUNTING INSTALLATION  
- SECTION A

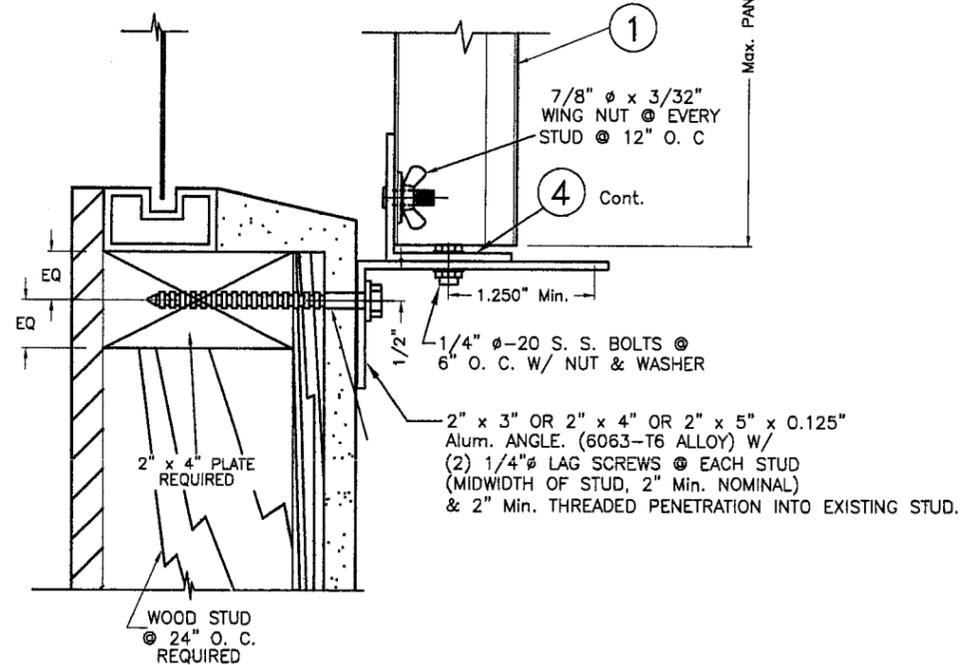
NOTE FOR COMBINATION OF SECTIONS:  
WALL MOUNTING SECTIONS CAN BE COMBINED  
IN ANY WAY TO SUIT ANY INSTALLATION.

NOTES:  
1. INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS UP TO +60.0,  
-76.0 p.s.f. AND PANEL'S LENGTHS UP TO 8'-10".  
2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN  
PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS



ALTERNATIVE 1



ALTERNATIVE 2

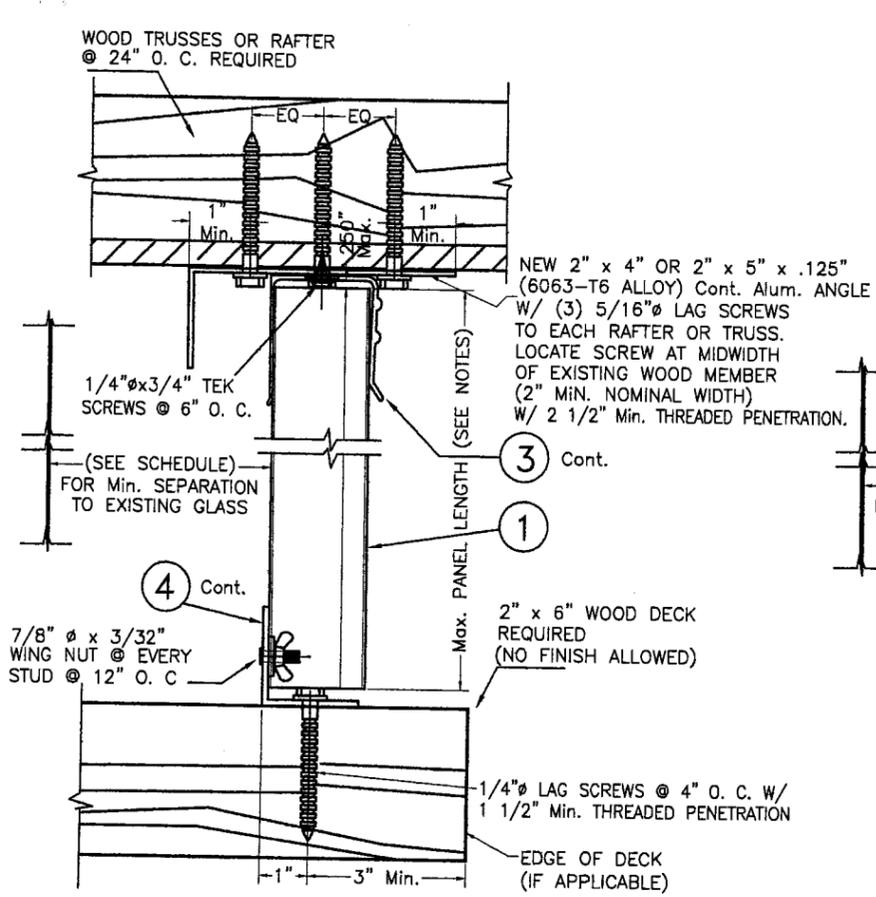
WALL MOUNT. INSTALLATION (OFFSET)  
- SECTION B

Approved as complying with the  
Florida Building Code  
Date: 03/22/2007  
NOA# 06-0503-04  
Miami Code Product Control  
Division  
By: *Helmut A. Miller*

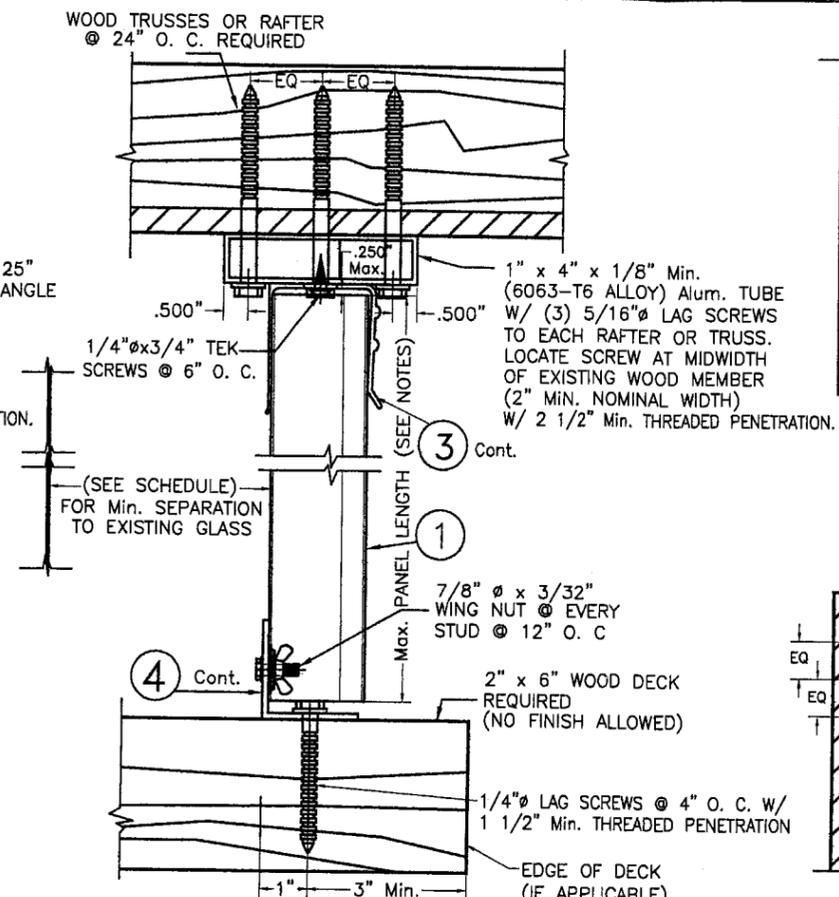
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<p>TILLIT TESTING &amp; ENGINEERING COMPANY 6355 N.W. 36th. St., Ste. 305, VIRGINIA GARDENS, FL. 33166 Phone : (305)871-1530 . Fax : (305)871-1531 EB-0006719 WALTER A. TILLIT Jr., P. E. FLORIDA Lic. 44167</p>		0.063" ALUMINUM STORM PANEL-"STORM GUARD"		L.G. DRAWN BY:		
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2				4		
06-071 DRAWING No						
SHEET 6 OF 7						

*Helmut A. Miller*  
APR 27 2006

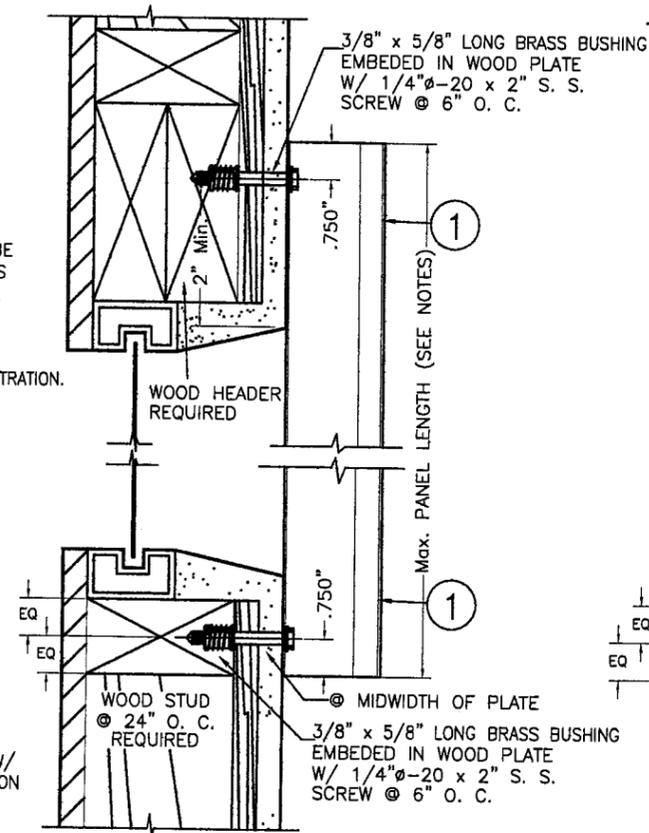


ALTERNATIVE 1

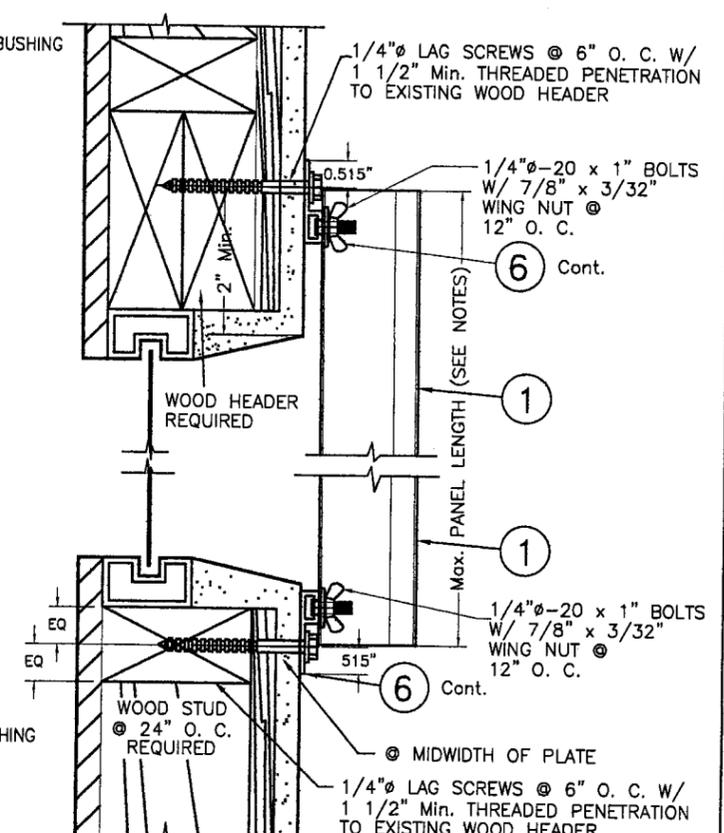


ALTERNATIVE 2

Max. PRESSURE RATING +60.0, -72.0 p.s.f.



WALL MOUNT. INSTALLATION  
- SECTION D



WALL MOUNT. INSTALLATION  
- SECTION E

CEILING & REMOVABLE FLOOR MOUNTING INSTALLATION  
- SECTION C

NOTE FOR COMBINATION OF SECTIONS:  
MOUNTING SECTIONS CAN BE COMBINED  
IN ANY WAY TO SUIT ANY INSTALLATION.

- NOTES:
1. INSTALLATIONS ARE ONLY VALID FOR DESIGN WIND LOADS UP TO +60.0, -76.0 p.s.f., (EXCEPT AS NOTED) AND PANEL'S LENGTHS UP TO 8'-10".
  2. FOR NEW WOOD FRAME CONSTRUCTION: WOOD MEMBERS TO BE SOUTHERN PINE No. 2, W/ SPECIFIC DENSITY OF 0.55 OR EQUAL.

Approved as complying with the  
Florida Building Code  
Date: 03/22/2007  
NOA# 06-0503.04  
Miami Code Product Control  
Division  
By: *Helmy A. Helmy*

INSTALLATION DETAILS ON EXISTING WOOD BUILDINGS

APR 27 2006

F.B.C. (High Velocity Hurricane Zone)

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REV. NO	DESCRIPTION	DATE	REV. No	DESCRIPTION	DATE														
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