



**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)**

**All Broward Hurricane Panel, Inc.  
450 West McNab Road  
Ft. Lauderdale, Florida 33309**

**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: 0.050" Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. 00-11, titled “.050” Storm Panel Details”, sheets 1 through 4 of 4, prepared by Al-Farooq Corporation, dated June 07, 2000, last revision #D dated July 12, 2002, 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.

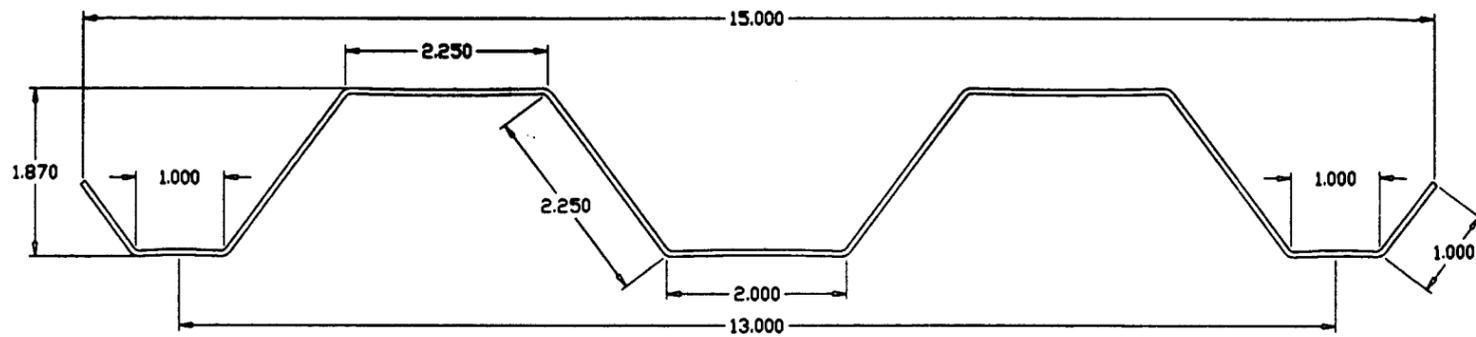
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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.

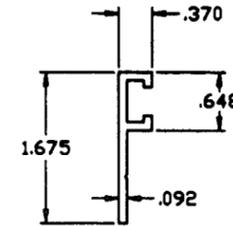
This NOA revises NOA # 00-0808.04 and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**



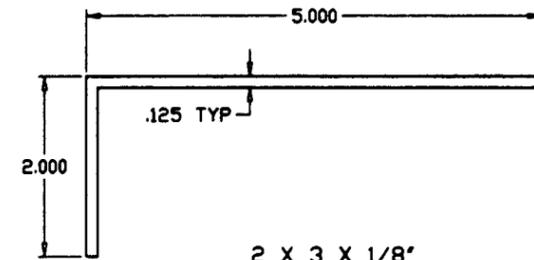
**NOA No 02-0904.06  
Expiration Date: 12/21/2003  
Approval Date: 09/19/2002  
Page 1**



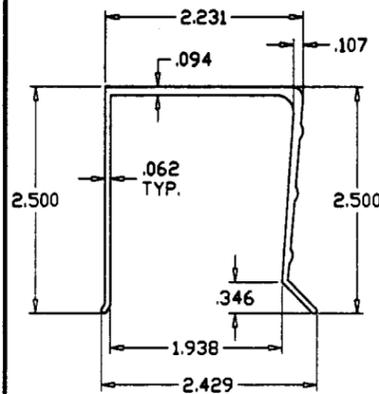
**ROLL FORMED PANEL** ALUMINUM (5052-H34)  
.050 IN. THICKNESS DR (3004-H34)



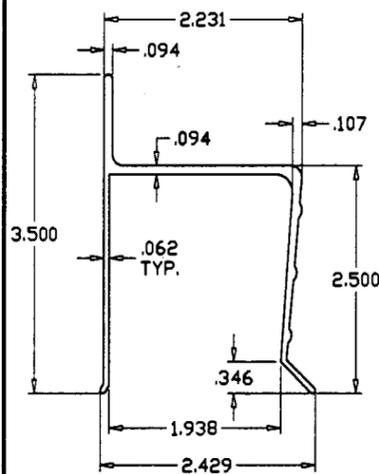
**F-TRACK**  
6063-T6



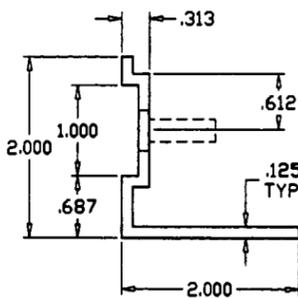
**BUILT-OUT ANGLES**  
6063-T6  
2 X 3 X 1/8"  
2 X 4 X 1/8"  
2 X 5 X 1/8"



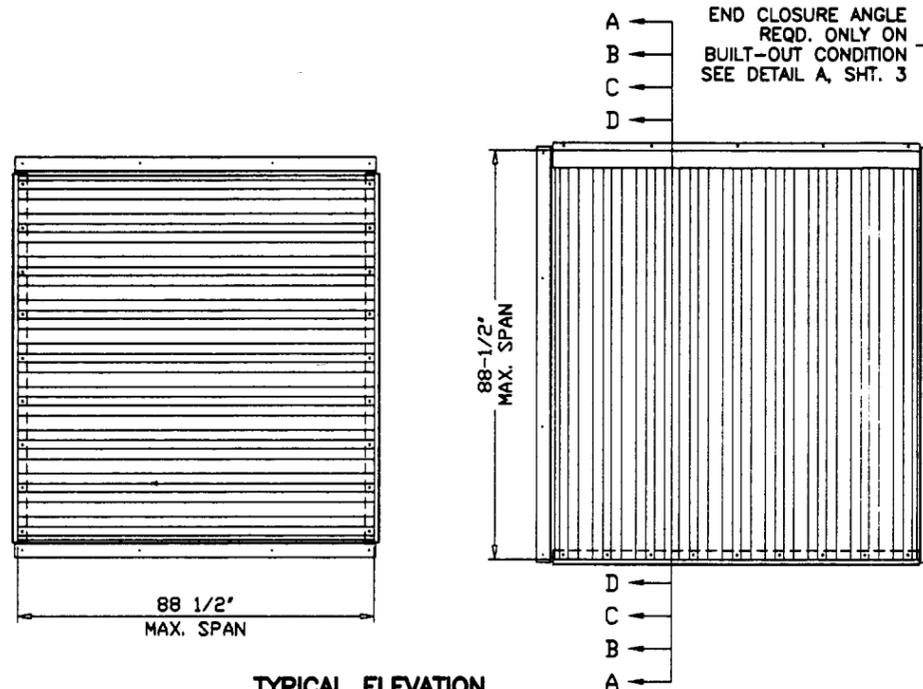
**CEILING HEADER**  
6063-T5



**WALL HEADER**  
6063-T5



**STUDED ANGLE**  
6063-T6



**TYPICAL ELEVATION**

PANELS CAN BE INSTALLED VERTICALLY OR HORIZONTALLY USING APPLICABLE ANCHORING DETAILS.

**MAX. DESIGN LOAD RATING = +76.4 PSF  
-97.0 PSF**

**ALL BROWARD HURRICANE PANEL INC., FT. LAUDERDALE FL.  
"MIAMI DADE COUNTY PRODUCT CONTROL APPROVED"**

DESIGN LOADS SHALL BE CALCULATED AS PER REQUIREMENTS OF ASCE 7-88 OR ASCE 7-98 AS REQUIRED BY BUILDING CODE.

FOR INSTALLATION DETAILS SEE SHEET 2 THRU 4.

**GENERAL NOTES**

1. THIS APPROVAL DOCUMENT REPRESENT A SHUTTER SYSTEM 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.
2. DESIGN CRITERIA FOR ALUMINUM, MINIMUM MECHANICAL PROPERTIES, AND SAFETY FACTORS ARE IN ACCORDANCE WITH THE "ALUMINUM CONSTRUCTION MANUAL" LATEST EDITION.
3. ALL EXTRUSIONS SHALL BE ALLOYS AS SHOWN ON DETAILS.
4. ANCHORS SHALL BE AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.
5. ALL BOLTS SHALL BE STAINLESS STEEL, ALUMINUM ALLOY 2024-T4 OR 7075-T6, OR PLATED STEEL. WING NUTS TO BE OF ZINC ALLOY.

A- THIS APPROVAL DOCUMENT IS GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE SPECIFIC APPLICATION OF SHUTTER SYSTEM.  
B- THIS APPROVAL DOCUMENT IS SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED ON THIS DOCUMENT.  
C- ANY MODIFICATIONS OR ADDITIONS TO THIS APPROVAL DOCUMENT WILL VOID THE APPROVAL DOCUMENT.  
D- WHEN THE SITE CONDITIONS DEVIATE FROM THIS APPROVAL DOCUMENT, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS.  
1- THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT SHOWING DETAIL AND JUSTIFICATION OF THE DEVIATION, SAID DOCUMENT SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.  
2- THAT A ONE TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.  
WHEN THE SITE CONDITION DEVIATION OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREA ONLY OPTION '2' SHALL BE ACCEPTED BY THE BLDG. OFFICIAL.  
F- THIS APPROVAL DOCUMENT COMPLIES WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 02-0904-06  
Expiration Date 12/21/2003  
By Helmut A. Mahr  
Miami Dade Product Control Division

**TYPICAL ANCHORS**

- ANCHOR (A) = 1/4" DIA. ITW TAPCONS  
1-3/4" EMBEDMENT INTO CONC.  
1-1/4" EMBEDMENT INTO BLOCK
- ANCHOR (D) = 1/4" RAWL CALK-IN.  
TOTAL ANCHOR BODY INTO CONC. OR BLOCK
- ANCHOR (E) = 1/4" DIA. LAG SCREWS  
1-1/2" MIN PENETRATION INTO WOOD(S.G.=0.55)
- ANCHOR (F) = 1/4" DIA. PANELMATE ANCHORS (ELCO-TEXTRON)  
1-7/8" EMBEDMENT TO CONC.  
1-1/4" EMBEDMENT TO BLOCK  
1-1/2" MIN PENETRATION INTO WOOD(S.G.=0.55)

NOTE: ANCHORS EMBEDMENT SHOWN IS BEYOND WALL & FLOOR COVERINGS (STUCCO, TILES, ETC.)

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

12/13/2002

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-6978  
PANELS/00-11AB

**.050" STORM PANEL DETAILS**  
**ALL BROWARD HURRICANE PANEL INC.**  
450 WEST MCNAB ROAD  
FT. LAUDERDALE, FL. 33309  
TEL (800) 432-1803 FAX. (954) 973-3928

| no | date     | by | description | REV. PER BCCO COMMENTS | REV. PER BCCO COMMENTS | UPDATED FOR FBC | REV. PER BCCO COMMENTS |
|----|----------|----|-------------|------------------------|------------------------|-----------------|------------------------|
| A  | 11.07.00 |    |             |                        |                        |                 |                        |
| B  | 11.30.00 |    |             |                        |                        |                 |                        |
| C  | 04.02.02 |    |             |                        |                        |                 |                        |
| D  | 07.12.02 |    |             |                        |                        |                 |                        |

date: 06-07-00  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:  
drawing no. **00-11**  
sheet 1 of 4

**WALL MOUNTS**

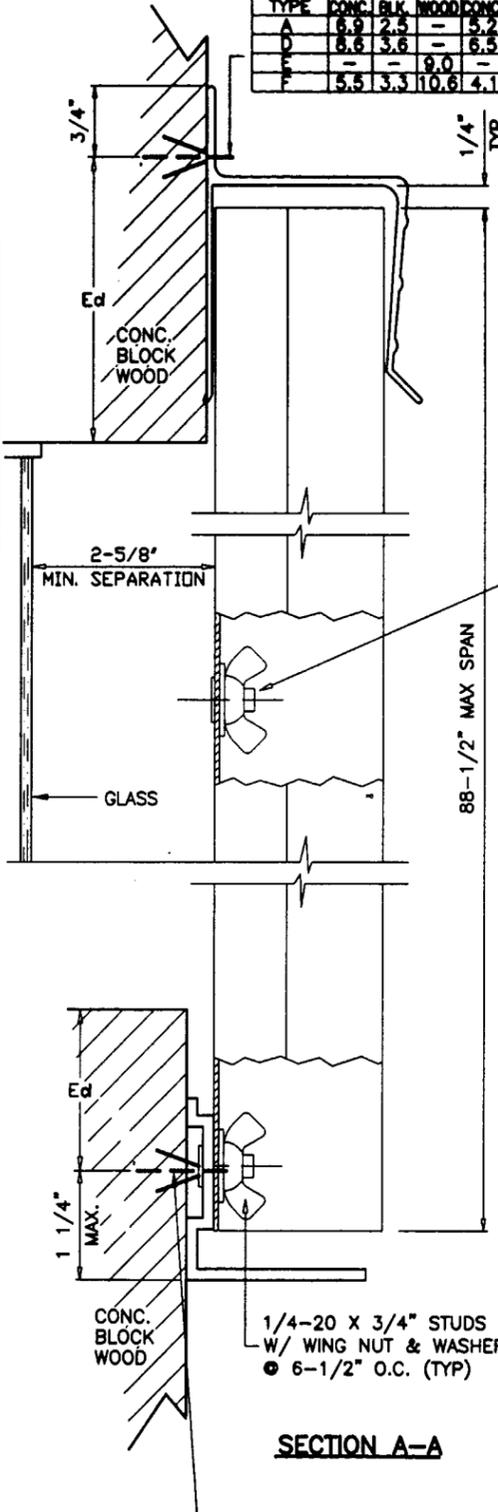
**INSIDE MOUNTS**

**BUILT-OUT**

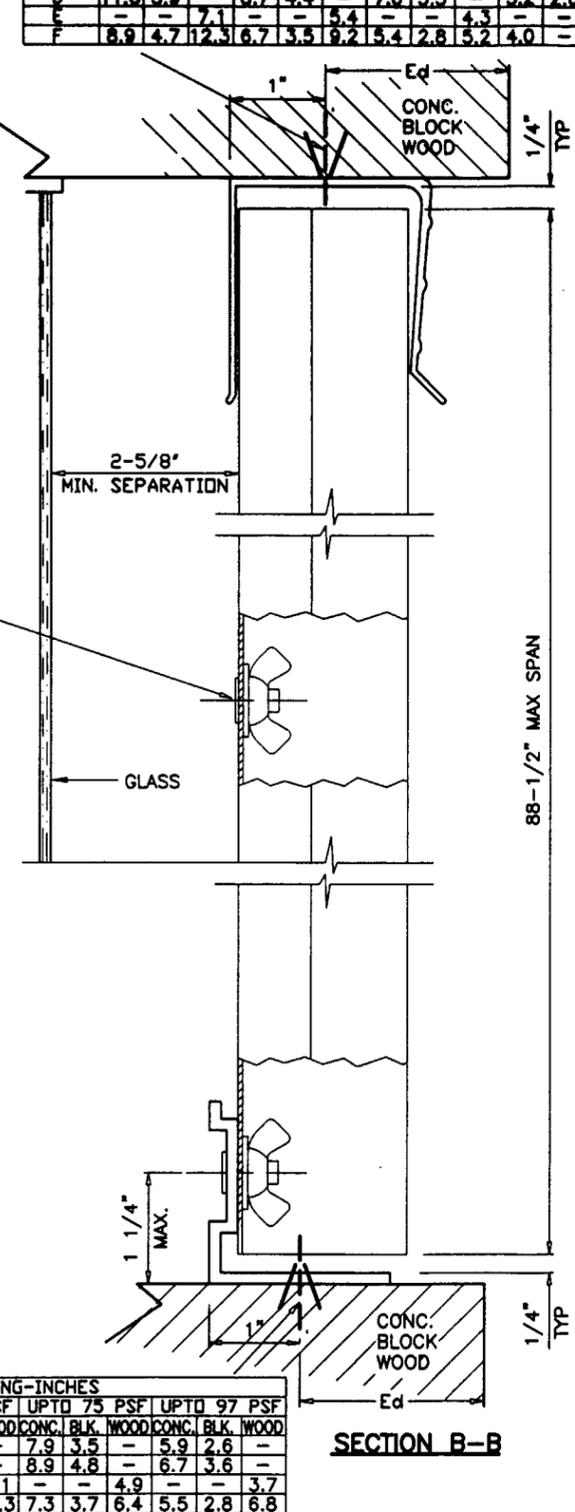
| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 8.9         | 2.5  | -    | 5.2         | -    | -    | 4.1         | -    | -    | 3.1         | -    | -    |
| D                      | 8.8         | 3.6  | -    | 6.5         | 2.7  | -    | 5.2         | 2.2  | -    | 3.9         | -    | -    |
| E                      | -           | -    | 9.0  | -           | 2.5  | 6.7  | -           | -    | 5.4  | -           | -    | 4.0  |
| F                      | 5.5         | 3.3  | 10.6 | 4.1         | -    | 8.0  | 3.3         | 2.0  | 6.4  | 2.5         | -    | 4.8  |

| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 10.0        | 4.2  | -    | 7.5         | 3.2  | -    | 6.0         | 2.5  | -    | 4.5         | -    | -    |
| D                      | 11.8        | 5.9  | -    | 8.7         | 4.4  | -    | 7.0         | 3.5  | -    | 5.2         | 2.6  | -    |
| E                      | -           | -    | 7.1  | -           | -    | 5.4  | -           | -    | 4.3  | -           | -    | 3.2  |
| F                      | 8.9         | 4.7  | 12.3 | 6.7         | 3.5  | 9.2  | 5.4         | 2.8  | 5.2  | 4.0         | -    | 5.5  |

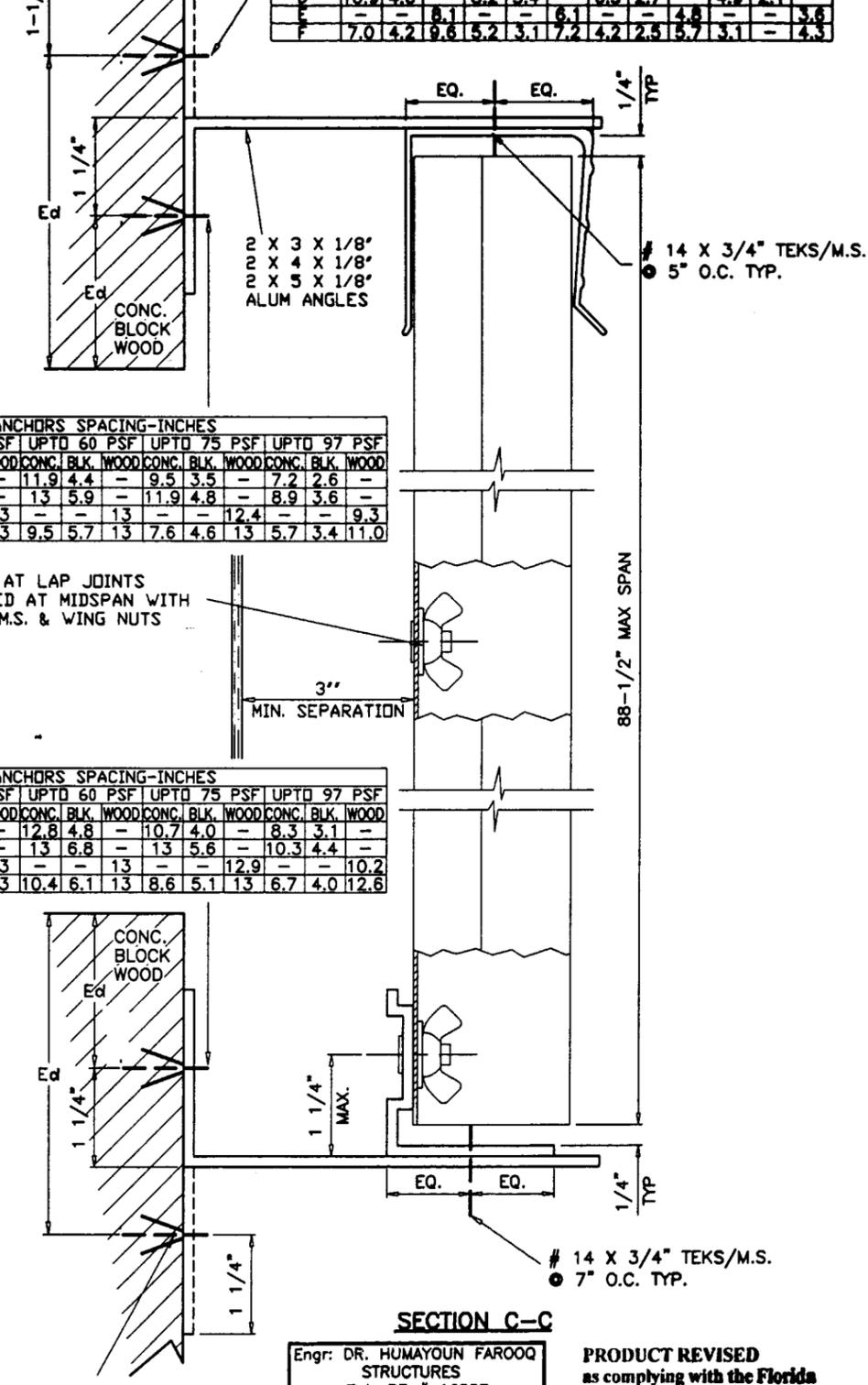
| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 6.7         | 3.2  | -    | 6.5         | -    | -    | 5.2         | -    | -    | 3.9         | -    | -    |
| D                      | 10.9        | 4.6  | -    | 8.2         | 3.4  | -    | 6.5         | 2.7  | -    | 4.9         | 2.1  | -    |
| E                      | -           | -    | 8.1  | -           | -    | 6.1  | -           | -    | 4.8  | -           | -    | 3.6  |
| F                      | 7.0         | 4.2  | 9.8  | 5.2         | 3.1  | 7.2  | 4.2         | 2.5  | 5.7  | 3.1         | -    | 4.3  |



**SECTION A-A**



**SECTION B-B**



**SECTION C-C**

| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 13          | 10.1 | -    | 13          | 7.7  | -    | 13          | 6.2  | -    | 12.6        | 4.7  | -    |
| D                      | 13          | 13   | -    | 13          | 10.9 | -    | 13          | 8.8  | -    | 13          | 6.8  | -    |
| E                      | -           | -    | 13   | -           | -    | 13   | -           | -    | 13   | -           | -    | 13   |
| F                      | 13          | 12.7 | 13   | 13          | 9.7  | 13   | 13          | 7.9  | 13   | 10.1        | 6    | 13   |

| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 13          | 5.8  | -    | 9.8         | 4.3  | -    | 7.9         | 3.5  | -    | 5.9         | 2.6  | -    |
| D                      | 13          | 7.9  | -    | 11.1        | 6.0  | -    | 8.9         | 4.6  | -    | 6.7         | 3.6  | -    |
| E                      | -           | -    | 8.2  | -           | -    | 6.1  | -           | -    | 4.9  | -           | -    | 3.7  |
| F                      | 12.1        | 6.1  | 13   | 9.1         | 4.6  | 11.3 | 7.3         | 3.7  | 6.4  | 5.5         | 2.8  | 6.8  |

| ANCHORS SPACING-INCHES |             |      |      |             |      |      |             |      |      |             |      |      |
|------------------------|-------------|------|------|-------------|------|------|-------------|------|------|-------------|------|------|
| ANCHOR TYPE            | UPTD 45 PSF |      |      | UPTD 60 PSF |      |      | UPTD 75 PSF |      |      | UPTD 97 PSF |      |      |
|                        | CONC.       | BLK. | WOOD |
| A                      | 7.9         | 2.9  | -    | 6.1         | -    | -    | 6.1         | -    | -    | 6.1         | -    | -    |
| D                      | 9.8         | 4.2  | -    | 7.6         | 3.2  | -    | 7.6         | 3.2  | -    | 7.6         | 3.2  | -    |
| E                      | -           | -    | 9.7  | -           | -    | 7.6  | -           | -    | 7.6  | -           | -    | 7.6  |
| F                      | 6.3         | 3.8  | 11.9 | 4.9         | 2.9  | 9.3  | 4.9         | 2.9  | 9.3  | 4.9         | 2.9  | 9.3  |

FOR GENERAL NOTES AND EXTRUSION DETAILS SEE SHEET 1 OF 4.  
FOR WOOD INSTALLATIONS SEE SHEET 4.

Ed = TYPICAL EDGE DISTANCE  
CONC. & BLOCK = 2" MIN.  
WOOD = 1-1/4" MIN.

HEADER AND SILL DETAILS CAN BE USED IN ANY COMBINATIONS.

Engr: DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557  
*HUG 1 3 2007*

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 02-0904.06  
Expiration Date 12/21/2003  
By *Helmy A. M... A.M.*  
Miami Dade Product Control  
Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
TEL. (305) 264-8100 FAX. (305) 262-8978  
PANELS 00-11AB

**.050" STORM PANEL DETAILS**  
**ALL BROWARD HURRICANE PANEL INC.**  
450 WEST McNAB ROAD  
FT. LAUDERDALE, FL. 33309  
TEL (800) 432-1803 FAX. (954) 973-3928

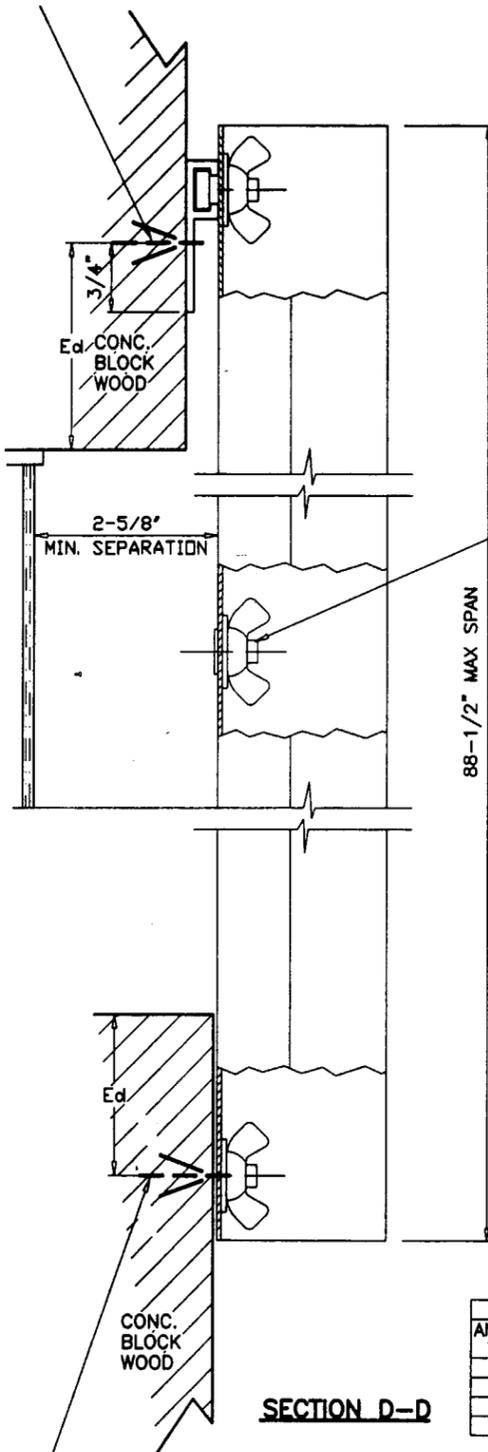
revisions:  
no. date by description

date: 06-07-00  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:

drawing no. 00-11  
sheet 2 of 4

**WALL MOUNTS**

| ANCHOR TYPE | ANCHORS SPACING-INCHES |           |             |           |             |           |             |           |
|-------------|------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|             | UPTD 45 PSF            |           | UPTD 60 PSF |           | UPTD 75 PSF |           | UPTD 97 PSF |           |
|             | CONC.                  | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD |
| A           | 13                     | 5.9       | 12.1        | 4.4       | 9.7         | 3.5       | 7.2         | -         |
| D           | 13                     | 8.4       | 13          | 6.3       | 12.1        | 5.0       | 9.0         | 3.8       |
| E           | -                      | -         | 13          | -         | 11.2        | -         | 8.9         | -         |
| F           | 12.8                   | 7.7       | 13          | 9.6       | 5.8         | 13.0      | 7.7         | 4.6       |
|             |                        |           |             |           |             |           | 10.6        | 5.8       |
|             |                        |           |             |           |             |           | 3.5         | 7.9       |



**SECTION D-D**

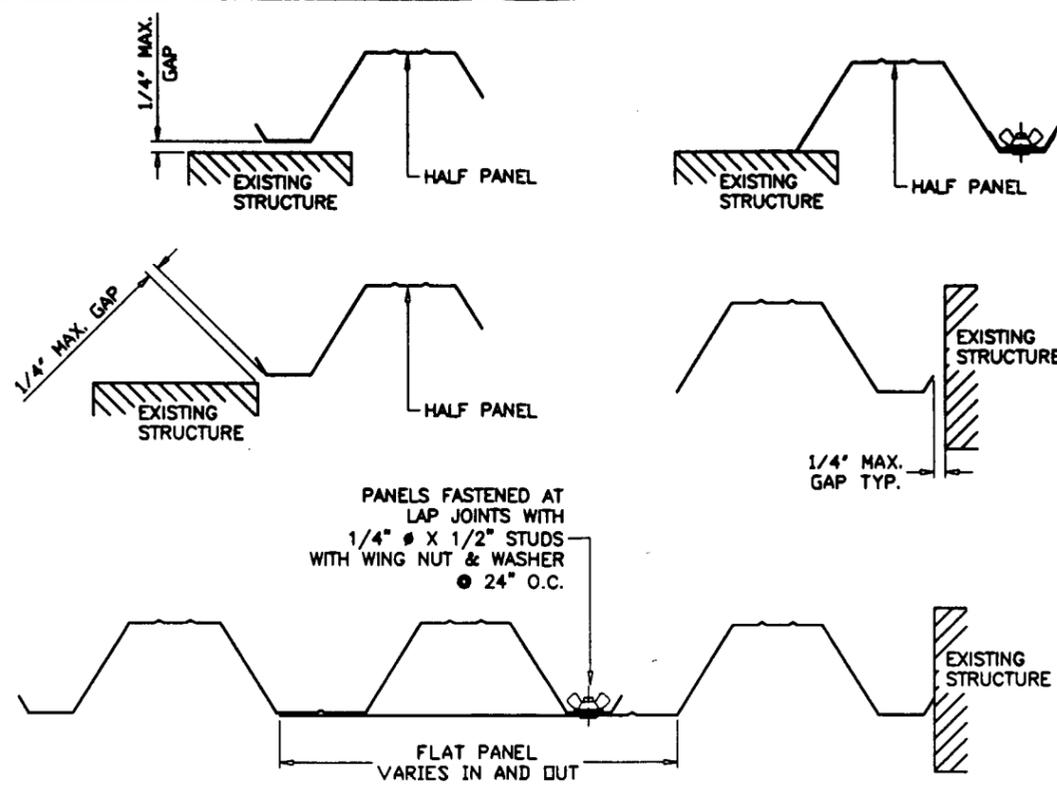
PANELS AT LAP JOINTS FASTENED AT MIDSPAN WITH 1/4"-20 M.S. & WING NUTS

88-1/2" MAX SPAN

| ANCHOR TYPE | ANCHORS SPACING-INCHES |           |             |           |             |           |             |           |
|-------------|------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|             | UPTD 45 PSF            |           | UPTD 60 PSF |           | UPTD 75 PSF |           | UPTD 97 PSF |           |
|             | CONC.                  | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD |
| A           | 9.0                    | 3.7       | 6.8         | 2.8       | 5.4         | -         | 4.1         | -         |
| D           | 10.5                   | 5.2       | 7.9         | 3.9       | 6.3         | 3.1       | 4.7         | -         |
| E           | -                      | -         | 6.7         | -         | 5.1         | -         | 4.0         | -         |
| F           | 8.0                    | 4.2       | 11.3        | 6.0       | 3.2         | 8.5       | 4.8         | 2.5       |
|             |                        |           |             |           |             |           | 6.8         | 3.6       |
|             |                        |           |             |           |             |           | 5.1         | -         |

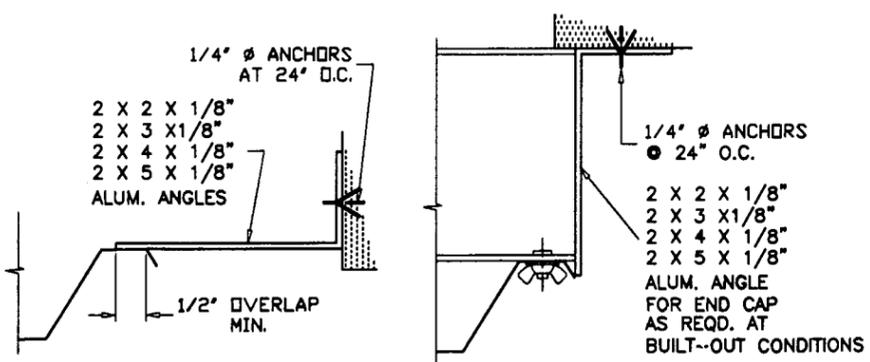
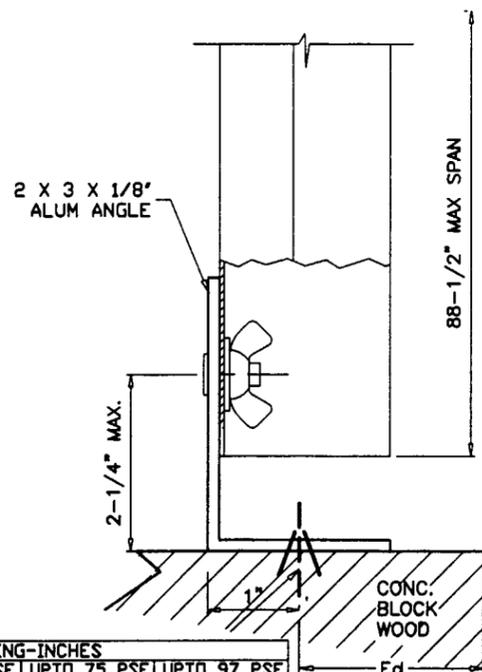
ALT. ANGLE HEADER SIMILAR

| ANCHOR TYPE | ANCHORS SPACING-INCHES |           |             |           |             |           |             |           |
|-------------|------------------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
|             | UPTD 45 PSF            |           | UPTD 60 PSF |           | UPTD 75 PSF |           | UPTD 97 PSF |           |
|             | CONC.                  | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD | CONC.       | BLK. WOOD |
| D           | 13                     | 13        | 13          | 10.9      | 13          | 8.8       | 13          | 6.6       |
| F           | 13                     | 12.7      | 13          | 9.7       | 13          | 7.9       | 13          | 10.1      |
|             |                        |           |             |           |             |           |             | 6.0       |
|             |                        |           |             |           |             |           |             | 13        |



**TRAP WINDOW DETAIL**

HALF PANEL TO BE USED IN SHORTER OPENING AS REQD.

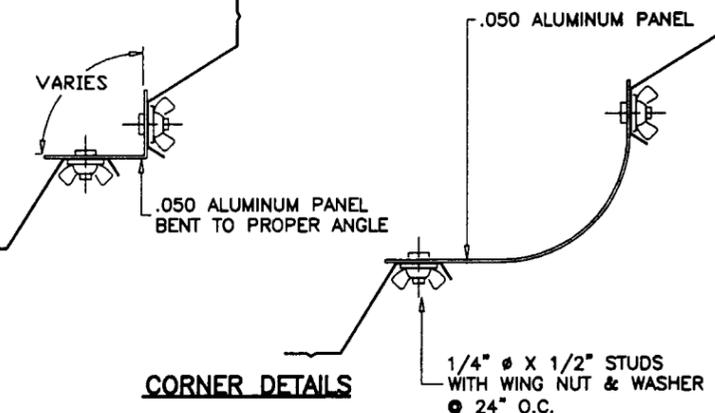


**DETAIL D END CAP BUILT-OUT CONDITION**

Engr. DR. HUMAYOUN FAROOQ  
STRUCTURES  
FLA. PE # 16557

AUG 13 2002

**CORNER DETAILS**



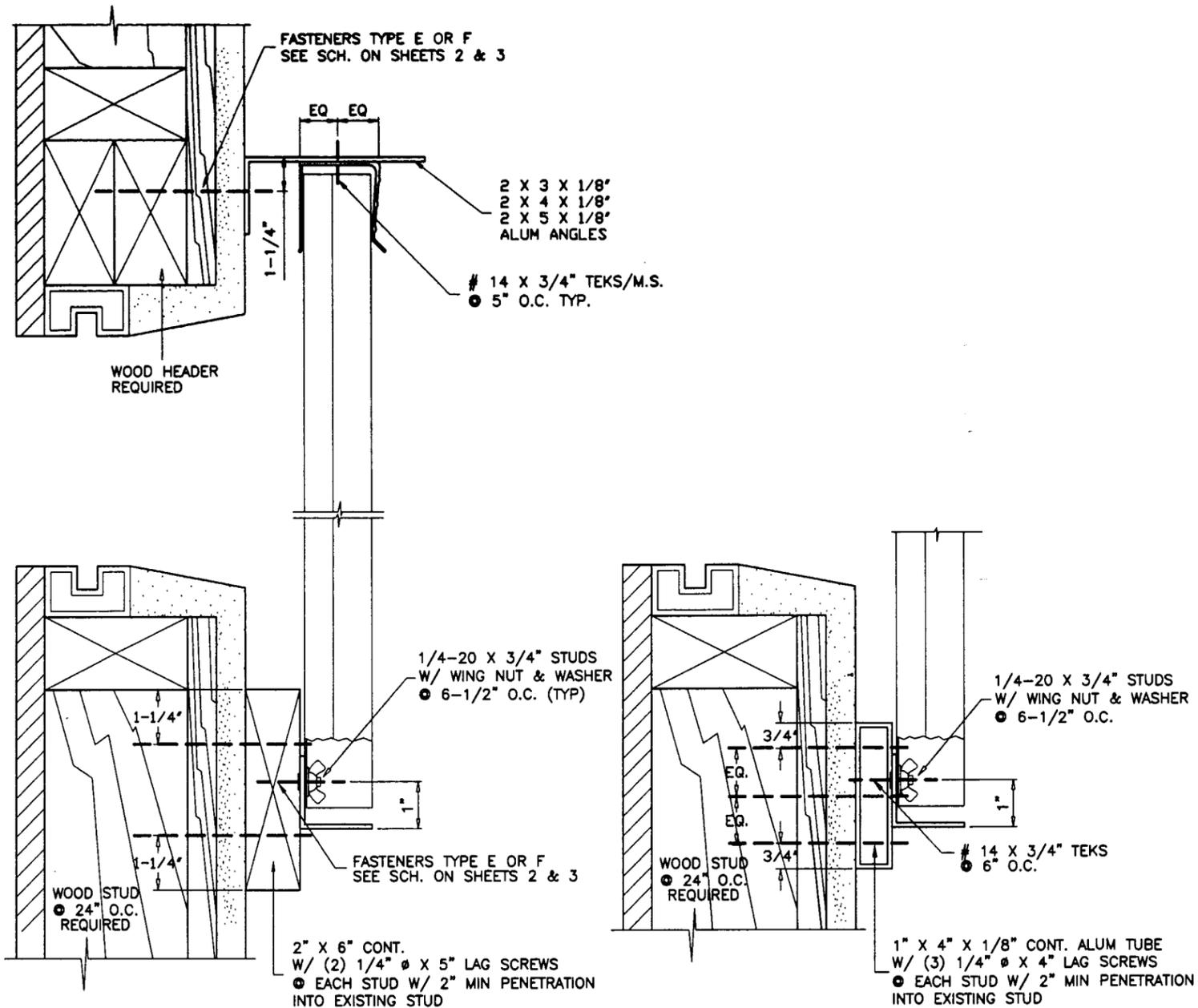
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 02-0904-06  
Expiration Date 12/21/2003  
By *Helmy A. Helmy*  
Miami Data Product Control Division

**AL-FAROOQ CORPORATION**  
ENGINEERS, PLANNERS & PRODUCT DESIGN  
1235 SW 87 AVE  
MIAMI, FLORIDA 33174  
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**.050" STORM PANEL DETAILS**  
**ALL BROWARD HURRICANE PANEL INC.**  
450 WEST MCNAB ROAD  
FT. LAUDERDALE, FL. 33309  
TEL. (800) 432-1803 FAX. (954) 973-3928

| revisions: | no. | date | by | description |
|------------|-----|------|----|-------------|
|            |     |      |    |             |
|            |     |      |    |             |
|            |     |      |    |             |

date: 06-07-00  
scale: 1/2" = 1"  
dr. by: HAMID  
chk. by:  
drawing no. 00-11  
sheet 3 of 4



**INSTALLATION DETAIL ON EXISTING WOOD STUDS (1/4"=1')**

FOR SHUTTER HEIGHT OF 88-1/2" MAX. DESIGN LOAD = +76.4 PSF  
 = -97.0 PSF

ABOVE DETAILS SHOWS CONNECTION OF 2X6 BUCK & 1X4 ALUM TUBE TO WOOD STUDS TO PROVIDE A CONTINUOUS SURFACE FOR SHUTTER INSTALLATION.

FOR INSTALLATION DETAILS OF HEADER/SILL TO CONTINUOUS WOOD MEMBERS SEE SHEETS 2 & 3.

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-0904.06  
 Expiration Date 12/31/2003  
 By *Helmy A. Abdel*  
 Miami Dade Product Control  
 Division

Engr: DR. HUMAYOUN FAROOQ  
 STRUCTURES  
 FLA. PE # 16557  
 AUG 13 2002

*afc*

**AL-FAROOQ CORPORATION**  
 ENGINEERS, PLANNERS & PRODUCT DESIGN  
 1235 SW 87 AVE  
 MIAMI, FLORIDA 33174  
 TEL. (305) 264-8100 FAX. (305) 262-6978  
 PANELS 00-11AB

**.050" STORM PANEL DETAILS**  
**ALL BROWARD HURRICANE PANEL INC.**  
 450 WEST MCNAB ROAD  
 FT. LAUDERDALE, FL. 33309  
 TEL. (800) 432-1803 FAX. (954) 973-3928

| no | date | by | description |
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|    |      |    |             |
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|    |      |    |             |

date: 06-07-00  
 scale: 1/2" = 1"  
 dr. by: HAMID  
 chk. by:

drawing no.  
 00-11  
 sheet 4 of 4