



**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)**

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**Hialeah Aluminum Supply, Inc.  
2360 W. 76 Street  
Hialeah, FL 33016**

**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: Series "0.070" Aluminum Storm Panels Shutter (3105-H14 Alloy)**

**APPROVAL DOCUMENT:** Drawing No. 3127, titled "0.070" Aluminum Storm Panels", sheets 1 through 4, prepared, signed and sealed by Robert Monsour, P.E., dated 7/5/96, bearing the Miami-Dade County Product Control Renewal 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 unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

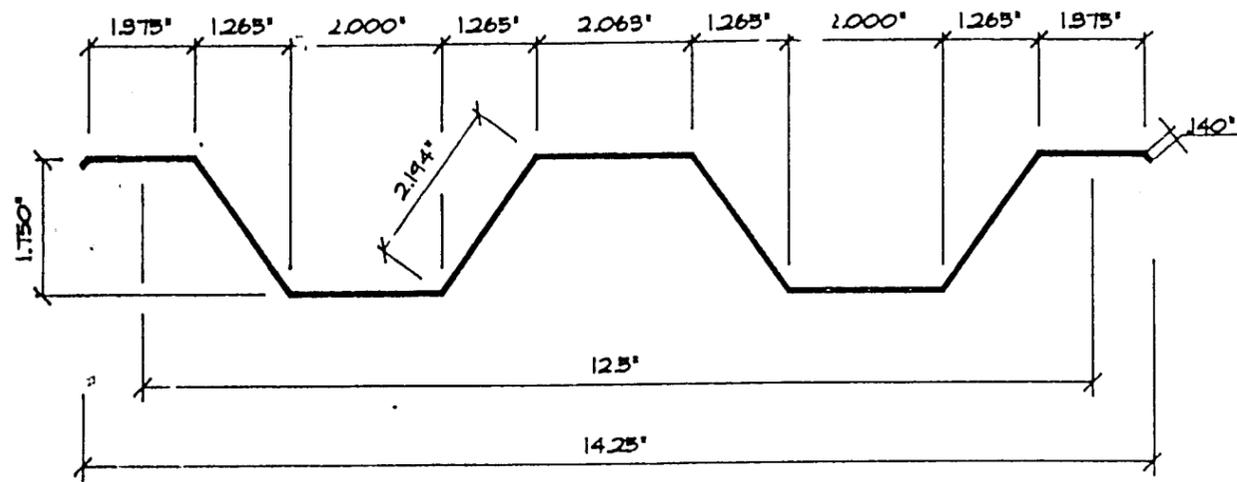
**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

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

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **renews NOA # 99-0521.01** and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



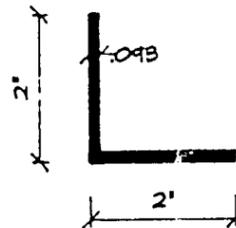
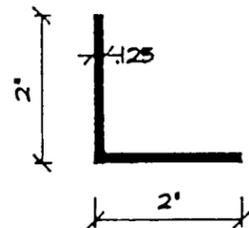
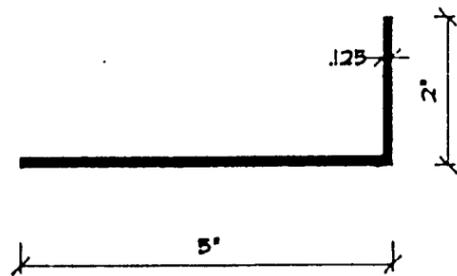
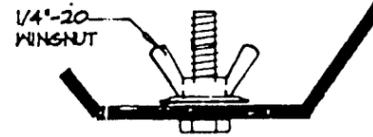
**NOA No 02-0221.02  
Expiration Date: August 8, 2007  
Approval Date: April 11, 2002  
Page 1**



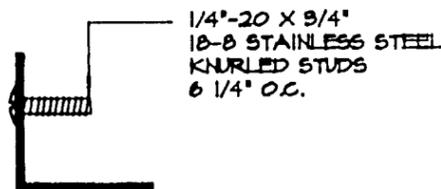
TYPICAL PANEL SECTION

(.070 WALL)

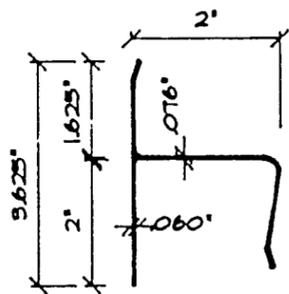
WINGNUT



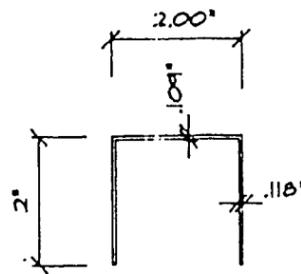
VARIOUS ANGLES



STUDED ANGLE



"h" HEADER



LESS MAY FLARE OUT TO EASILY RECEIVE STORM PANELS.

"u" HEADER

.070 ALUMINUM STORM PANELS

ALLOY 9105-H 14

COMPLIES WITH:

SOUTH FLORIDA BUILDING CODES CHAPTER 29, SECTIONS 402.9 ADOPTION OF ASCE 7-88, 2914.5 FATIGUE LOAD TESTING, 2915 IMPACT TESTS AND 1994 S.B.C.

DESIGN CRITERIA:

WIND LOAD PER CHAPTER 29 OF S.F.B.C. PRESSURE REQUIREMENT CALCULATIONS MUST BE PERFORMED PER ASCE 7-88 MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES DEFLECTION - L/30 W/2' MAX ( POSITIVE LOAD )

GENERAL NOTES:

THIS ALUMINUM STORM PANEL IS DESIGNED FOR COASTAL & NON COASTAL ZONE BUILDINGS.

ALL ALUMINUM EXTRUSIONS TO BE ALLOY 6063-T6 OR EQUAL.

STORM PANELS SHALL BE ALLOY .070 9105-H14 ALUMINUM OR EQUAL SMOOTH OR EMBOSSED.

THE STORM PANEL SHUTTER MAY BE INSTALLED VERTICALLY OR HORIZONTALLY, IN ACCORDANCE TO THE DETAILED SPECIFICATIONS HEREIN.

EDGE DISTANCE SPECIFICATION TABLE APPLIES TO HEADER AND SILL APPLICATIONS ONLY.

ANCHORAGE OF THE SHUTTER SYSTEM TO CONCRETE OR MASONARY SHALL CONSIST OF 1/4" DIA. X 1 1/4" NAIL-IN ANCHORS 1/4"-20 MACHINE SCREW AND EXPANSION ANCHORS, 1/4" X 2 1/4" MASONRY SCREW ANCHORS, 1/4"-20 X 1" TRUSS HEAD MACHINE BOLTS, 1/4"-20 X 9/16" BRASS INSERT WITH 1/4"-20 X 1" MACHINE BOLTS, USED IN COMBINATION WITH 1/4"-20 MACHINE SCREWS WITH 1/4"-20 NUTS AND WASHERS, 1/4"-20 WASHERED WING NUTS, KEYHOLE WASHERS AND KNURLED STUDS. SPACING AS INDICATED ON THIS DRAWING. ANCHORS SHALL PROVIDE A MINIMUM OF 1 1/4" EMBEDMENT INTO THE MASONARY, BRICK AND/OR CONCRETE. ANCHOR LENGTH MAY VARY TO ACHIEVE THE PROPER EMBEDMENT.

ANCHORAGE TO WOOD CONSTRUCTION SHALL BE 1/4"-20 X 9/16" THREADED BRASS WOOD INSERT WITH 1/4"-20 X 1" TRUSS HEAD MACHINE BOLT OR ANY OTHER DADE COUNTY APPROVED FASTERER.

ALTERNATIVE ANCHORS AND CONDITIONS ON SHEET NO. 2 & 3.

EACH OPENING SHALL BEAR A PERMANENT LABEL SHOWING "DADE COUNTY PRODUCT APPROVED" LOCATED IN EACH HEADER.

WARNING TO OWNER OR TENANT LOCATED IN HEADER STATING "STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL 1/4"-20 STITCHING REINFORCING IS PROPERLY INSTALLED DURING WIND VELOCITIES EXCEEDING 75 M.P.H.

WARNINGS AND LABELS MUST ALSO BE PERMANENTLY PRINTED ON EACH STORM PANEL.

PERMANENT FASTENER COMPONENTS, EMBEDDED ANCHOR BOLTS, THREADED CONES OR METAL SHIELDS, NOT IN USE, MUST BE PROTECTED AGAINST CORROSION, CONTAMINATION AND DAMAGE AT ALL TIMES.

DESIGN PRESSURE RATINGS.

FOR DESIGN PRESSURE RATINGS, REFER TO THE CHART ON PAGE #4 OF 4.

PRODUCT RENEWED

ACCEPTANCE No. 99-0521-01

EXPIRATION DATE August 08 2002

By *Helmut H. Hahn*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No 02-0221-02  
Expiration Date AUG 8 2007

By *[Signature]*  
Miami Dade Product Control  
Division

REVISIONS	BY
6/12/96	
7/3/96	

RAMMS ENGINEERING, INC.  
*Structural Design*  
1100 N. 76th STREET, SUITE 211  
MIAMI, FLORIDA 33154  
ES 0008074  
822-3141

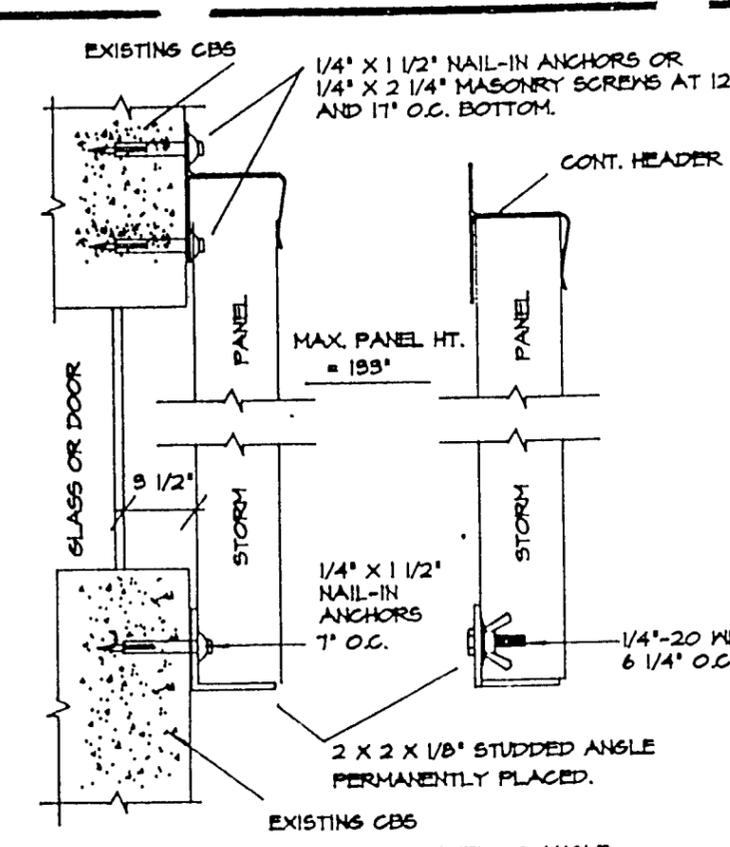
HIALEAH ALUMINUM SUPPLY  
2360 W 76th STREET  
HIALEAH, FLORIDA  
821-0103

<i>Helmut H. Hahn</i>
Monsieur
9/10/96
3/27
1
4

*Monsieur*  
9/15/96

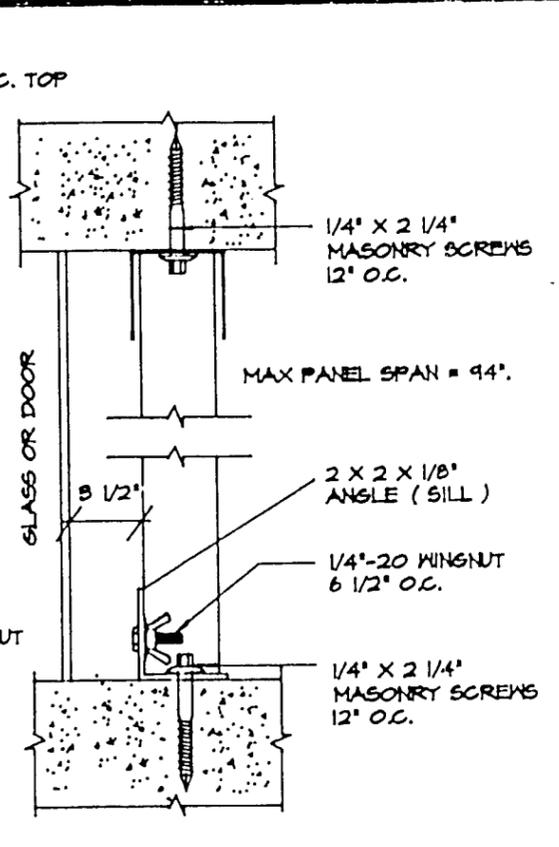
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE August 8 1996  
BY *[Signature]*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 96-0311.02

REVISIONS	BY
6/12/96	
7/9/96	

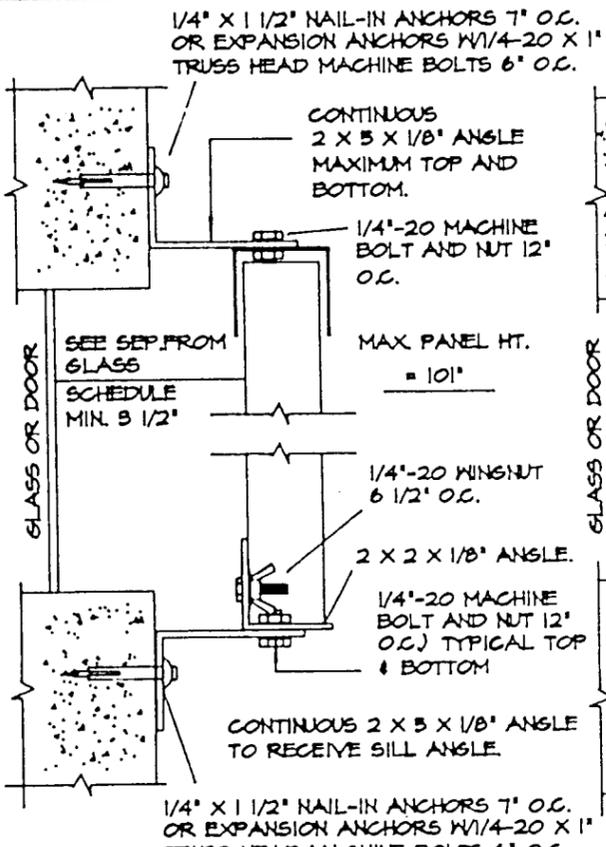


ANGLE TO WALL  
WALL MOUNT SECTION

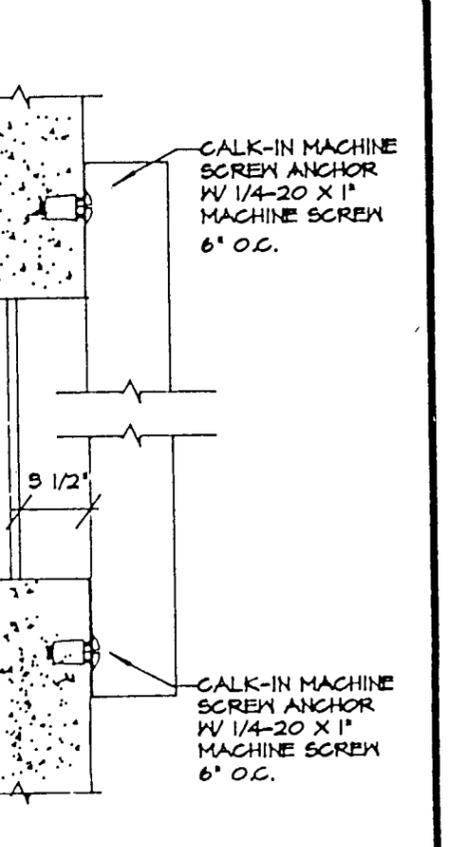
PANEL TO ANGLE



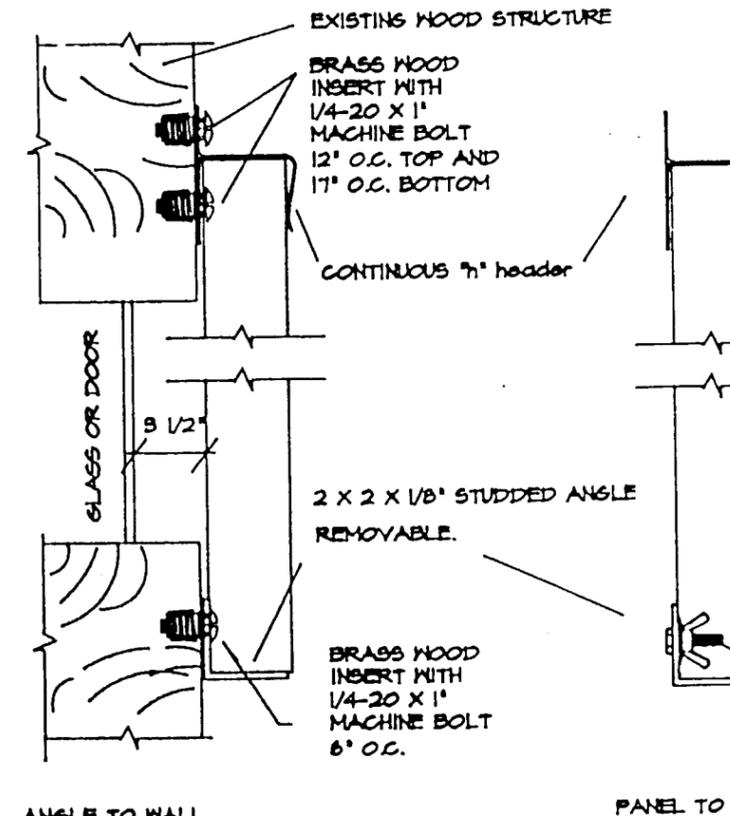
CEILING/INSIDE MOUNT



BUILD OUT MOUNT

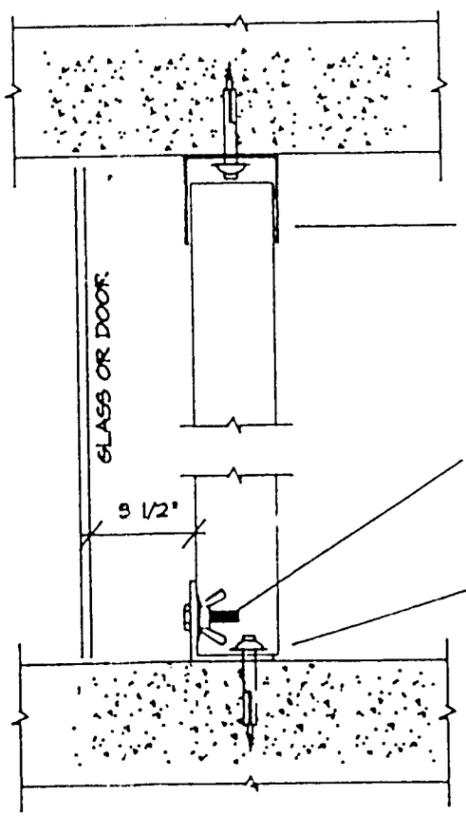


WALL MOUNT SECTION  
DIRECT MOUNT

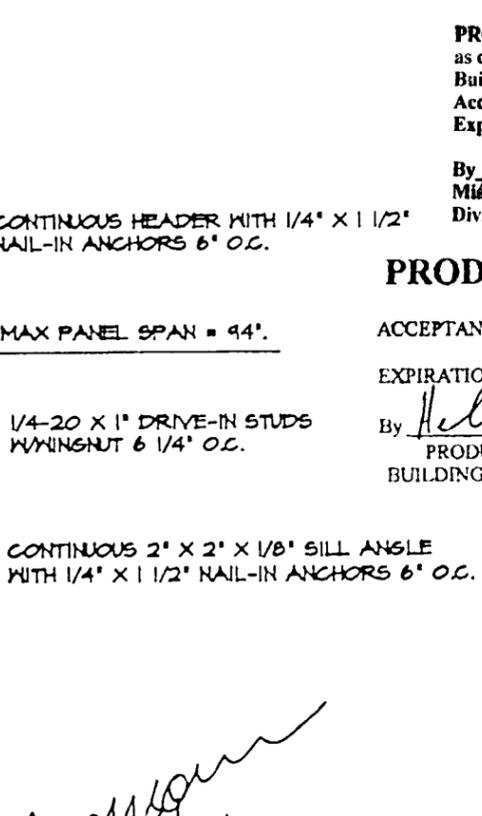


ANGLE TO WALL  
WALL MOUNT SECTION

PANEL TO ANGLE



CEILING/INSIDE MOUNT



BUILD OUT MOUNT

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
Acceptance No. 02-0271-02  
Expiration Date Aug 8-2002

By [Signature]  
Miami Dade Product Control Division

**PRODUCT RENEWED**  
ACCEPTANCE No. 99-0521-01  
EXPIRATION DATE August 08-2002  
By [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
DATE AUGUST 8 1996  
BY [Signature]  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 96-0311-02

*[Handwritten Signature]*  
7/5/96

RAMMS ENGINEERING, INC.  
*Structural Design*  
1700 N. 76th STREET, SUITE 211  
MIAMI, FLORIDA 33157  
EN 000024  
822-3141

HIALEAH ALUMINUM SUPPLY  
2310 WEST 76 STREET  
HIALEAH, FLORIDA  
8210103

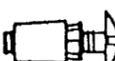
1	1/1/96
2	5/1/96
3	5/27
4	2

REVISIONS	BY
6/12/96	
7/8/96	

RAMMS ENGINEERING, INC.  
 Structural Design  
 1700 N. 76th STREET, SUITE 211  
 MIAMI, FLORIDA 33141  
 EB 000624  
 822-3141

HIALEAH ALUMINUM SUPPLY  
 2810 WEST 76 STREET  
 HIALEAH, FLORIDA  
 821-0103

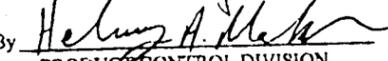
1	1/12/96
2	9/17/96
3	9/27
4	

HARDWARE SCHEDULES		59.5 PSF					72.0 PSF				91.4 PSF			
		POURED CONCRETE		CONCRETE BLOCK			POURED CONCRETE		CONCRETE BLOCK		POURED CONCRETE		CONCRETE BLOCK	
		ANCHOR TYPE	E.D.	TENSILE	SHEAR	TENSILE	SHEAR	TENSILE	SHEAR	TENSILE	SHEAR	TENSILE	SHEAR	TENSILE
	1/4" X 1 1/2" NAIL-IN ANCHORS	2"	7"	7"	NA	NA	7"	7"	NA	NA	7"	5"	NA	NA
		3"	7"	7"	NA	NA	7"	7"	NA	NA	7"	7"	NA	NA
	1/4" MASONRY SCREWS 1 1/2" EMBEDMENT	2"	12"	9"	11"	9"	12"	7"	9"	8"	10"	6"	7"	6"
		3"	12"	12"	12"	11"	12"	10"	10"	11"	12"	8"	8"	8"
	CALK-IN * 1/2" MACHINE SCREW ANCHOR USED W/1/4-20 MACHINE SCREW	2"	11"	12"	8"	8"	9"	10"	7"	7"	7"	8"	5"	5"
		3"	12"	12"	9"	11"	11"	12"	8"	9"	8"	11"	6"	7"
* ALSO KNOWN AS EXPANSION ANCHOR W/1/4-20 X 1" TRUSS HEAD MACHINE BOLT.														

FOR 197.5 PSF DESIGN LOAD, SPACE ALL HARDWARE AT 6" O.C.  
 FOR 200 PSF DESIGN LOAD, SPACE ALL HARDWARE AT 5" O.C. EXCEPT NAIL-INS TO BE SPACED 4 1/4" O.C.  
 FOR 240 PSF DESIGN LOAD, SPACE ALL HARDWARE AT 5" O.C. EXCEPT NAIL-INS TO BE SPACED 4" O.C.

**PRODUCT RENEWED**  
 as complying with the Florida  
 Building Code  
 Acceptance No. 02-0221.02  
 Expiration Date AUG 8 2007  
 By   
 Miami Dade Product Control  
 Division

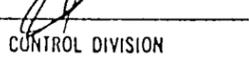
WOOD APPLICATIONS	TYPE	DIA.	TENSILE	SHEAR	TENSILE	SHEAR
	1/4-20 X 9/16" THREADED BRASS WOOD INSERT WITH 1/4-20 X 1" MACHINE BOLT.	1/4"	12"	11"	12"	8"

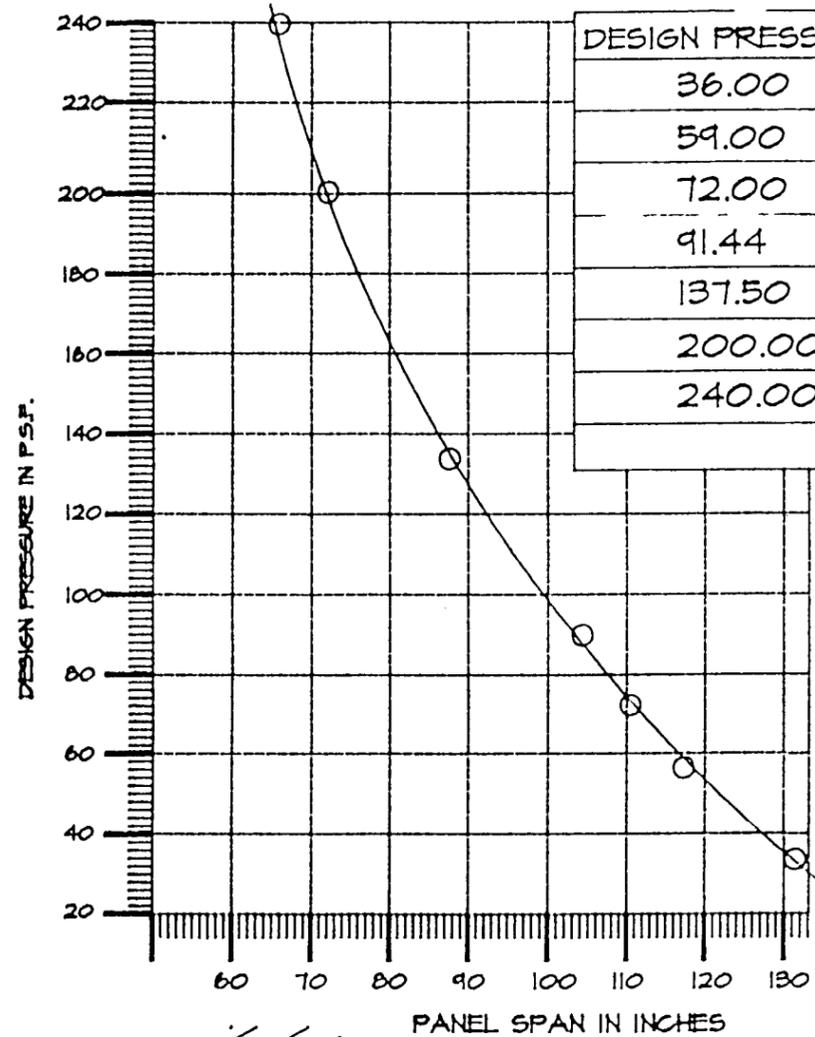
**PRODUCT RENEWED**  
 ACCEPTANCE No. 99-0521.01  
 EXPIRATION DATE August 08-2002  
 By   
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

\* ALL WOOD FASTNERS TO HAVE A MINIMUM EDGE DISTANCE OF 2 1/2"

# HARDWARE SCHEDULES

*Monsieur*  
7/5/96

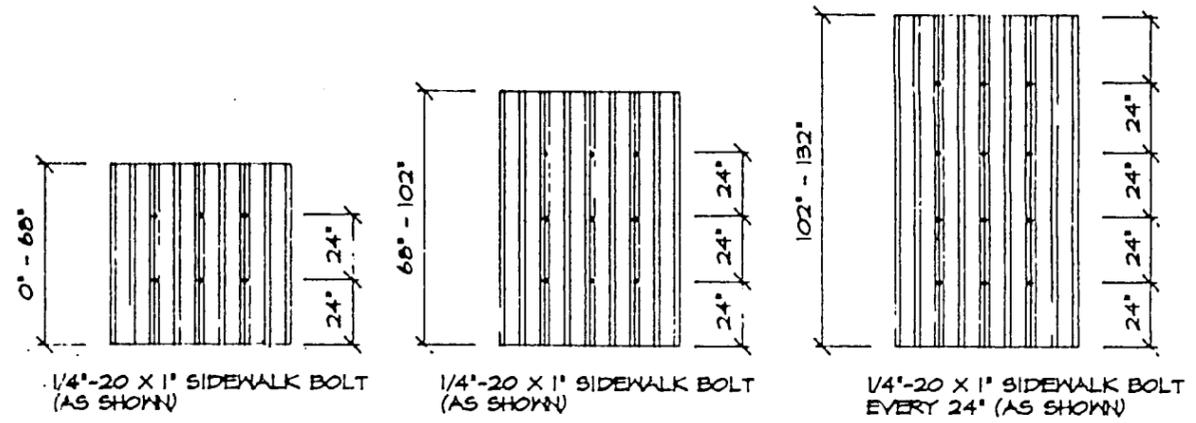
APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE August 8, 1996  
 BY   
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 96-0311.02



DESIGN PRESSURE	PANEL SPAN
36.00	131"
59.00	116"
72.00	110"
91.44	104"
137.50	88"
200.00	73"
240.00	66"

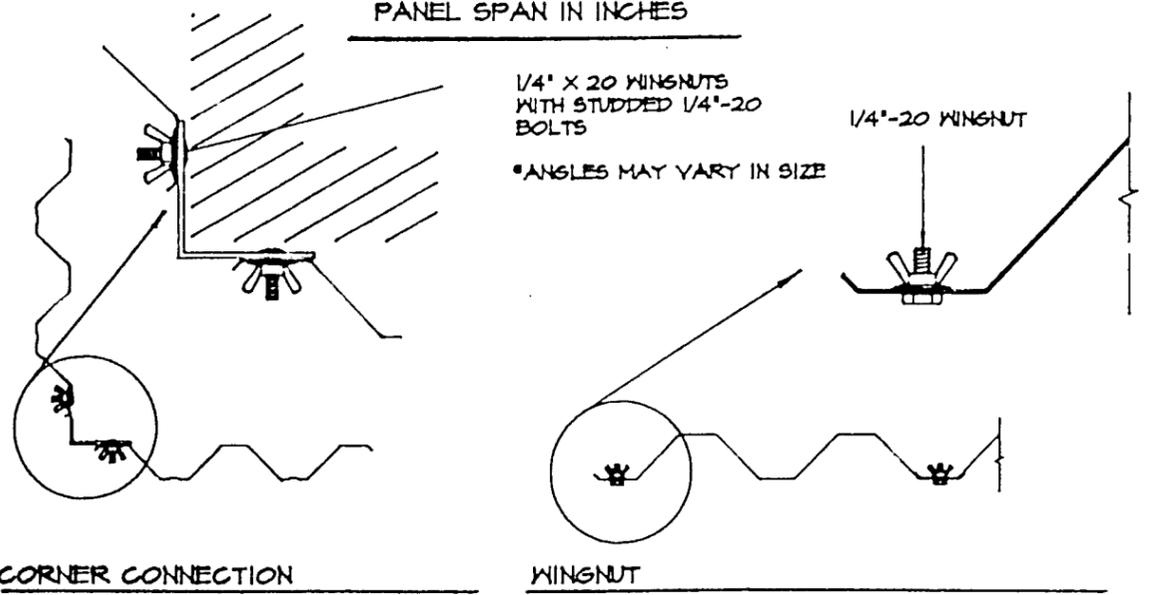
**ADDITIONAL HARDWARE**

**PRODUCT RENEWED**  
 ACCEPTANCE No. 96-0311.01  
 EXPIRATION DATE August 08 - 2002  
 By: *Heung H. Ma*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE



**VERTICAL ELEVATIONS**  
 PANELS MAY ALSO BE USED HORIZONTALLY.

PANEL HEIGHT	0'-68"	68'-102"	102'-132"
	MIN. DISTANCE BETWEEN GLASS AND PANEL		
WALL MOUNT	3 1/2"	3 1/2"	3 1/2"
INSIDE MOUNT	3 1/2"	3 1/2"	3 1/2"
BUILD OUT	3 1/2"	3 1/2"	3 1/2"
DIRECT MOUNT	3 1/2"	3 1/2"	3 1/2"



**GENERAL NOTES:**  
 WHEN ANCHORING INTO WOOD, THE WOOD MUST BE A MINIMUM 2 X 4 EQUAL TO #2 SOUTHERN PINE AND STRUCTURALLY PART OF THE FRAMING STRUCTURE OR SECURELY ATTACHED TO FRAMING STRUCTURE.

REFER TO SCHEDULES FOR MINIMUM DISTANCES BETWEEN GLASS AND PANEL, ANCHOR SPACING FOR SPECIFIC ANCHORS AND EDGE DISTANCES (E.D.) FOR SPECIFIC ANCHORS.

**PRODUCT RENEWED**  
 as complying with the Florida Building Code  
 Acceptance No. 02-0221.62  
 Expiration Date Aug 8, 2007  
 By: *Heung H. Ma*  
 Miami Dade Product Control Division  
 7/5/96

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE August 8 1996  
 BY: *Heung H. Ma*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE No. 96-0311.02

REVISIONS	BY
6/12/96	
7/3/96	

RAMMS ENGINEERING, INC.  
*Structural Design*  
 1740 N. 76th STREET, SUITE 211  
 PALM BEACH, FLORIDA 33410  
 EB 0000024  
 822-3141

HIALEAH ALUMINUM SUPPLY  
 2310 WEST 76 STREET  
 HIALEAH, FLORIDA  
 521 0103

7/10/96  
 Monour  
 3/1/96  
 3/27  
**4**