



MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING

**BUILDING CODE COMPLIANCE OFFICE**  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

**PRODUCT CONTROL NOTICE OF ACCEPTANCE**

**Miami Dade Aluminum Supply, Inc.**  
1615 West 31 Place  
Hialeah FL 33012

**CONTRACTOR LICENSING SECTION**  
(305) 375-2527 FAX (305) 375-2558

**CONTRACTOR ENFORCEMENT SECTION**  
(305) 375-2966 FAX (305) 375-2908

**PRODUCT CONTROL DIVISION**  
(305) 375-2902 FAX (305) 372-6339

Your application for Product Approval of:

**0.063" Aluminum Storm Panel Shutter**

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime from a jobsite or manufacturer's plant for quality control testing.

If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Acceptance No.: 00-0201.02

Expires: 04/21/2003

Raul Rodriguez  
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL CONDITIONS**

**BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.  
Director

Miami-Dade County  
Building Code Compliance Office

Approved: 04/21/2000

1 of 3



**Miami Dade Aluminum Supply, Inc.**

ACCEPTANCE No. : 00-0201.02

APPROVED : APR 2 1 2000

EXPIRES : APR 2 1 2003

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This **renews** the Notice of Acceptance, No. 95-1220.01, which was issued on June 13, 1996. It approves a 0.063" aluminum storm panel shutter, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code, 1994 Edition for Miami-Dade County, for the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

**2. PRODUCT DESCRIPTION**

This 0.063" aluminum storm panel shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 3126, titled "0.063" Aluminum Storm Panels", prepared by Ramms Engineering, Inc., dated December 6, 1995, last revised on May 16, 1996, sheets 1, 2, & 4 of 4; last revised on April 30, 1996, sheet 3 of 4, bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

All permanent set components, included but not limited to embedded anchor bolts, threaded cones, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all times.

**4. INSTALLATION**

This 0.063" aluminum storm panel shutter and its components shall be installed in strict compliance with the approved drawings.

**5. 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".

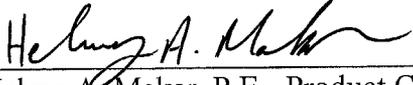
**6. BUILDING PERMIT REQUIREMENTS**

**6.1** Application for building permit shall be accompanied by copies of the following:

**6.1.1** This Notice of Acceptance.

**6.1.2** Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.

**6.1.3** Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.

  
\_\_\_\_\_  
Helmy A. Makar, P.E.- Product Control Examiner  
Product Control Division

**Miami Dade Aluminum Supply, Inc.**

ACCEPTANCE No. : 00-0201.02

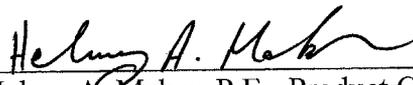
APPROVED : APR 21 2000

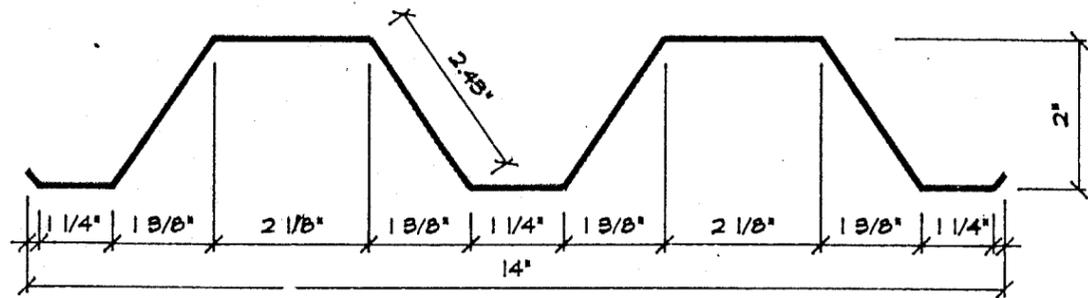
EXPIRES : APR 21 2003

**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

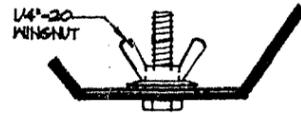
1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

**END OF THIS ACCEPTANCE**

  
\_\_\_\_\_  
Helmy A. Makar, P.E.- Product Control Examiner  
Product Control Division



TYPICAL PANEL SECTION



WINGNUT

**.063 ALUMINUM STORM PANELS**

ALUMINUM ALLOY 6062-H32

**.063 ALUMINUM STORM PANELS**

ALUMINUM ALLOY 6062-H32

**COMPLIES WITH:**

SOUTH FLORIDA BUILDING CODES CHAPTER 23, SECTIONS 402.3 ADOPTION OF ASCE 7-88, 2314.5 FATIGUE LOAD TESTING, 2315 IMPACT TESTS AND 1994 S.B.C.

**DESIGN CRITERIA:**

WIND LOAD PER CHAPTER 23 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 .063 6062 H32 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 MASONRY SHALL CONSIST OF 1/4" DIA. X 1 1/2" SLEEVED DRIVE ANCHORS (STAR DRYVINS), 1/4"-20 MACHINE SCREW ANCHOR (TAMPINS) WITH FLOOR PLUGS, 1/4" X 1 1/2" MASONRY SCREWS (TAPCONS), 1/4" X 1 1/2" WEDGE ANCHOR OR SLEEVE ANCHORS, (1/4" X 3/4" LAGS OR #14 SELF TAPPING SCREW) WITH LAG SHIELD, NAILED STUD ANCHORS OR OTHER DADE COUNTY APPROVED ANCHORS NOT LISTED 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 MASONRY, BRICK AND/OR CONCRETE. ANCHOR LENGTH MAY VARY TO ACHIEVE THE PROPER EMBEDMENT.

ANCHORAGE TO WOOD CONSTRUCTION SHALL BE 1/4" STEEL LAGS OR LARGER WITH 1 1/4" MIN. PENETRATION, 1/4-20 BRASS WOOD BUSHINGS OR OTHER DADE COUNTY APPROVED ANCHORS.

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:**

"STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL 1/4-20 STITCHING IS PROPERLY INSTALLED DURING WIND VELOCITIES EXCEEDING 75 M.P.H.

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:**

POSITIVE = 55PSF, NEGATIVE = 72PSF

APPROVED AS COMPLYING WITH THE

SOUTH FLORIDA BUILDING CODE

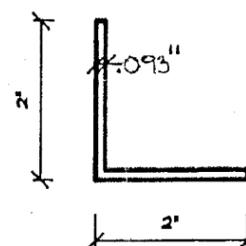
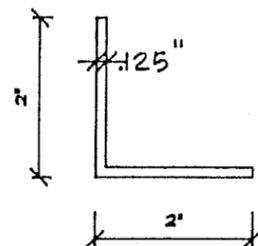
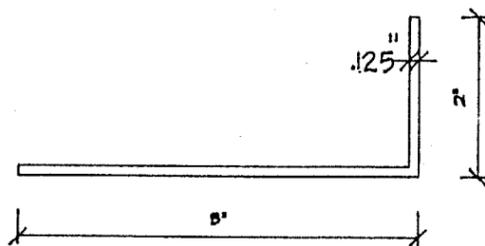
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BY

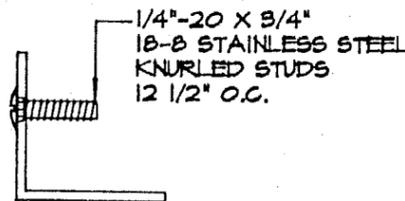
PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

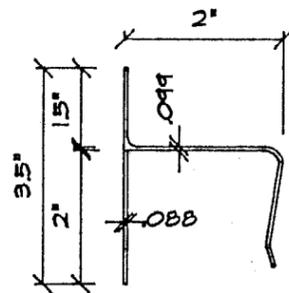
ACCEPTANCE NO. 95-1220.01



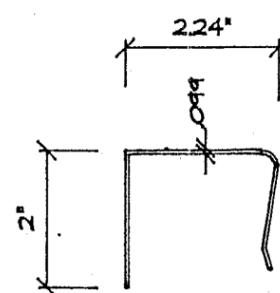
**VARIOUS ANGLES**



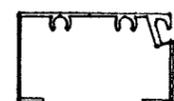
STUDED ANGLE



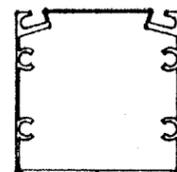
"h" HEADER



"u" HEADER



1 X 2 BLOCKING



2 X 2 BLOCKING

**PRODUCT RENEWED**

ACCEPTANCE No. 00-0201.02

EXPIRATION DATE April 21, 2003

By Helmy A. Hakeem

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

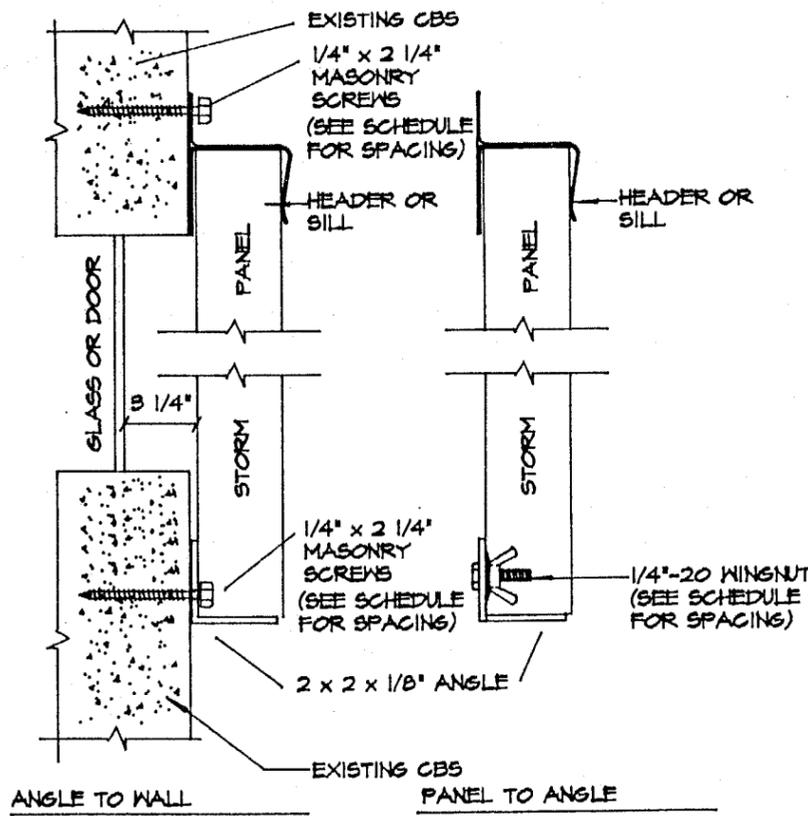
REVISIONS	BY
2/19/96	
2/26/96	
4/30/96	
5/16/96	

**RAMMS ENGINEERING, INC.**  
*Structural Design*  
 2100 N. 7th Street, Suite 211  
 Hialeah, Florida 33014  
 EB 0006024

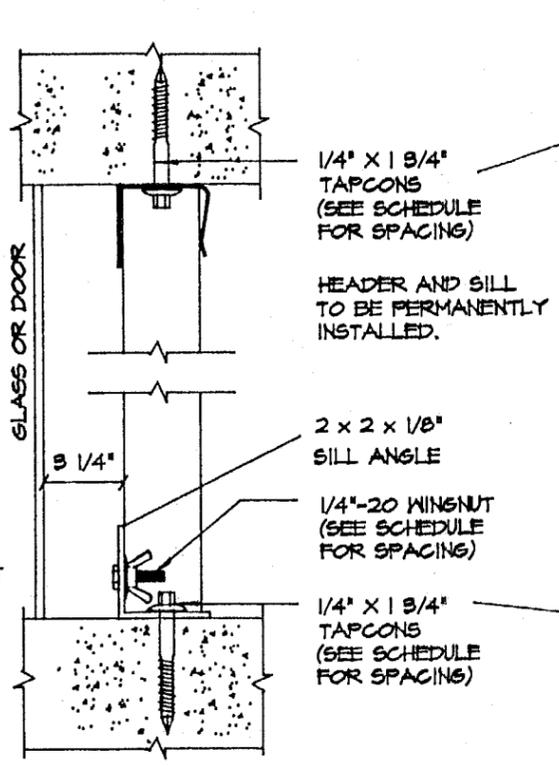
**MIAMI DADE ALUMINUM SUPPLY**  
 1615 W 31 PLACE  
 HIALEAH, FLORIDA

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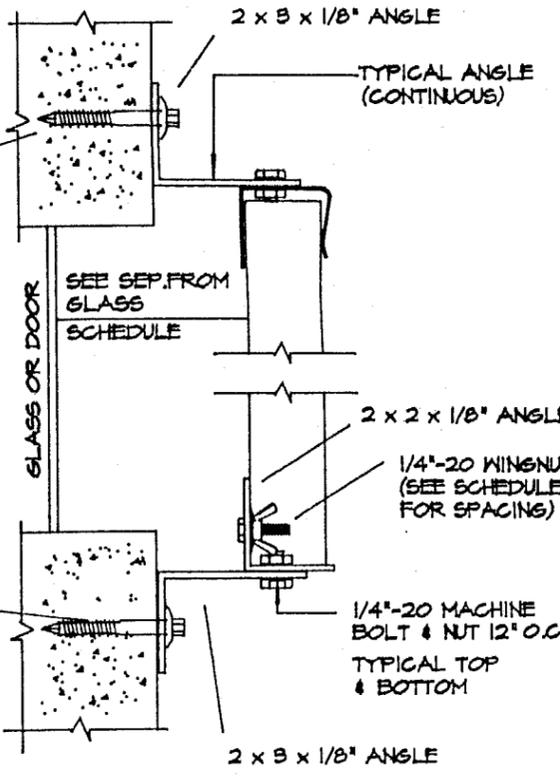
REVISIONS	BY
2/19/96	
2/28/96	
4/30/96	
5/16/96	



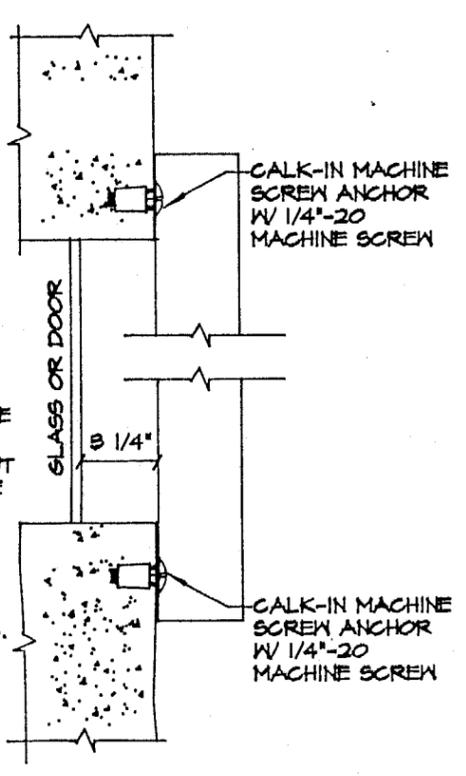
WALL MOUNT SECTION



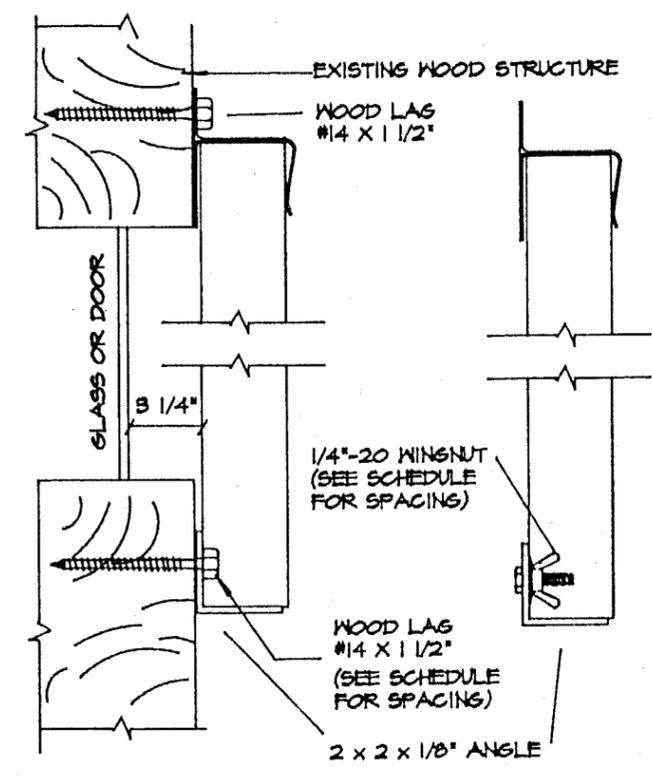
CEILING/INSIDE MOUNT



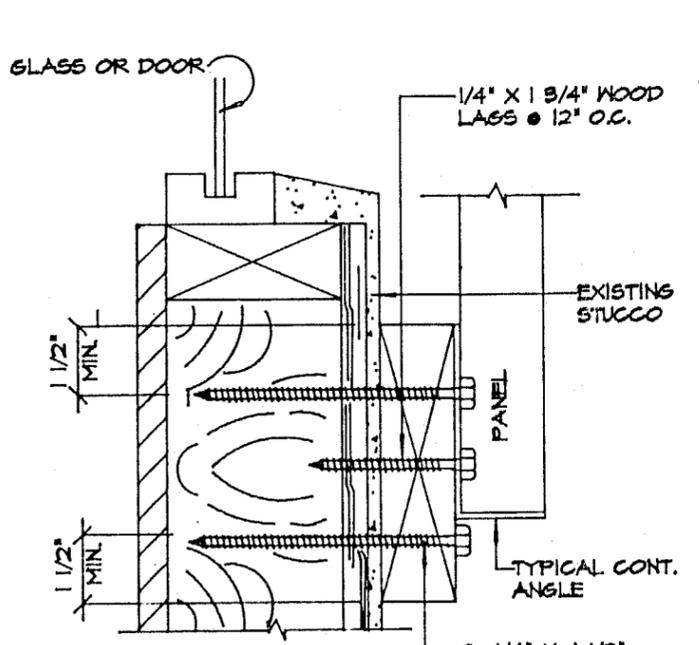
BUILD OUT MOUNT



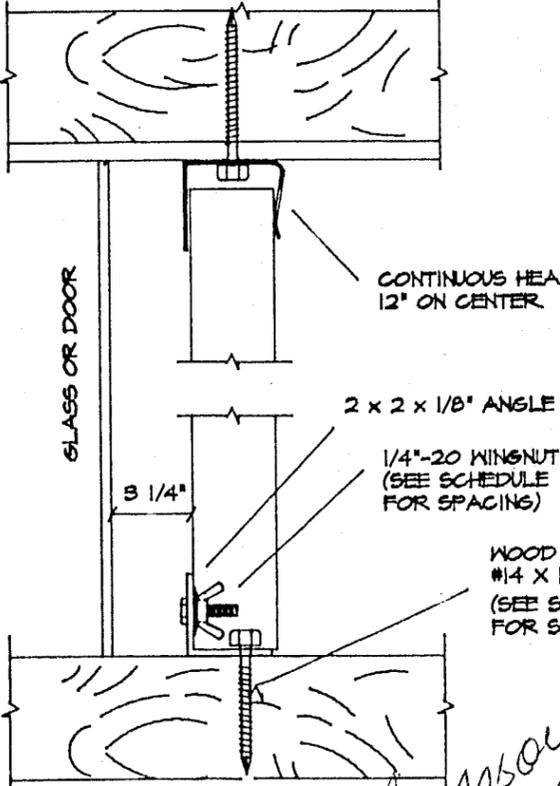
WALL MOUNT SECTION DIRECT MOUNT



WALL MOUNT SECTION



WALL MOUNT SECTION \ BOTTOM



SOFFIT MOUNT

**PRODUCT RENEWED**

ACCEPTANCE No. 90-0201.02

EXPIRATION DATE April 21, 2003

By Heather A. M...

PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE

SOUTH FLORIDA BUILDING CODE

DATE JUNE 13 1996

BY [Signature]

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. 95-1220.01

RAMMS ENGINEERING, INC.

Structural Design

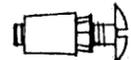
2100 N. 7th STREET, SUITE 211  
HIALEAH, FLORIDA 33016

EB 0006024

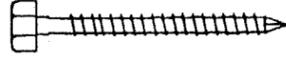
MIAMI DADE ALUMINUM SUPPLY  
1615 WEST 31 PLACE  
HIALEAH, FLORIDA

12/6/95
3126
<b>2</b>

REVISIONS	BY
2/19/96	
2/26/96	
4/30/96	

EDGE DISTANCE AND ANCHOR SPACING VERSUS DESIGN PRESSURE AND PANEL HEIGHT														
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	SHEAR
	1/4" MASONRY SCREWS 1 1/2" EMBEDMENT	2"	*	*	*	*	*	*	*	*	*	*	*	*
		3"	*	*	*	*	*	*	*	*	*	*	*	*
	CALK-IN 1/2" MACHINE SCREW ANCHOR USED W/1/4-20 MACHINE SCREW	2"	*	*	*	*	*	*	*	*	*	*	*	*
		3"	*	*	*	*	*	*	*	*	*	*	*	*

\* ALL FASTENERS TO BE SPACED 6" ON CENTER ALONG HEADER AND SILL EXCEPT FOR PANELS UP TO 60" HIGH THE SPACING IS 12".

WOOD APPLICATIONS	TYPE	DIA.	TENSILE	SHEAR	TENSILE	SHEAR
	#14 WOOD LAG 1 1/2" MINIMUM EMBEDMENT	1/4"	**	**	**	**

\*\* ALL WOOD FASTENERS TO BE SPACED 6" ON CENTER ALONG HEADER AND SILL EXCEPT FOR PANELS UP TO 60" HIGH THE SPACING IS 12".

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

**PRODUCT RENEWED**  
 ACCEPTANCE No. 00-0201-02  
 EXPIRATION DATE April 21, 2003  
 By Helmy A. Matar  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

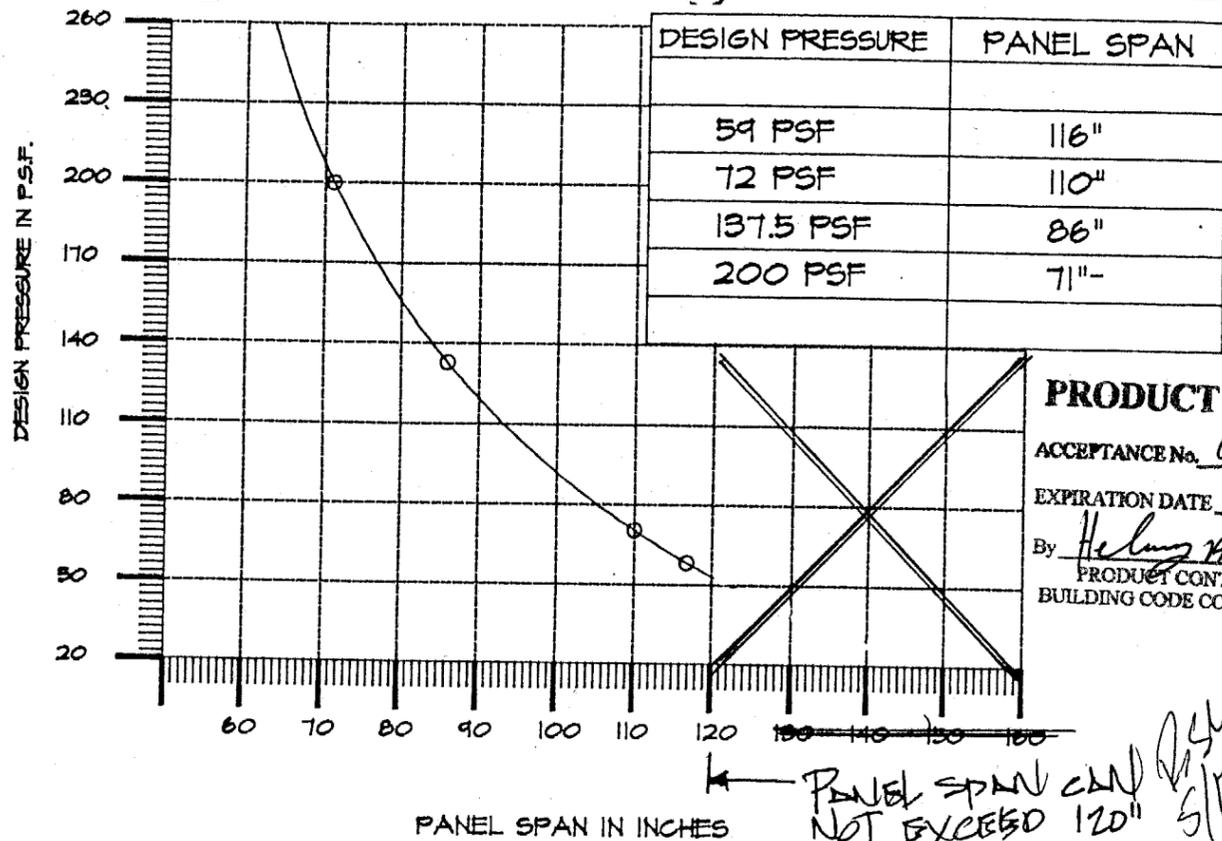
*Monsour*  
 5/16/96

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE JUNE 13 1996  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 95-1220-01

RAMMS ENGINEERING, INC.  
*Structural Design*  
 2700 N. 79th STREET, SUITE 071  
 MIAMI, FLORIDA 33154  
 EB 0000024

MIAMI DADE ALUMINUM SUPPLY  
 1615 W 31 PLACE  
 HIALEAH, FLORIDA

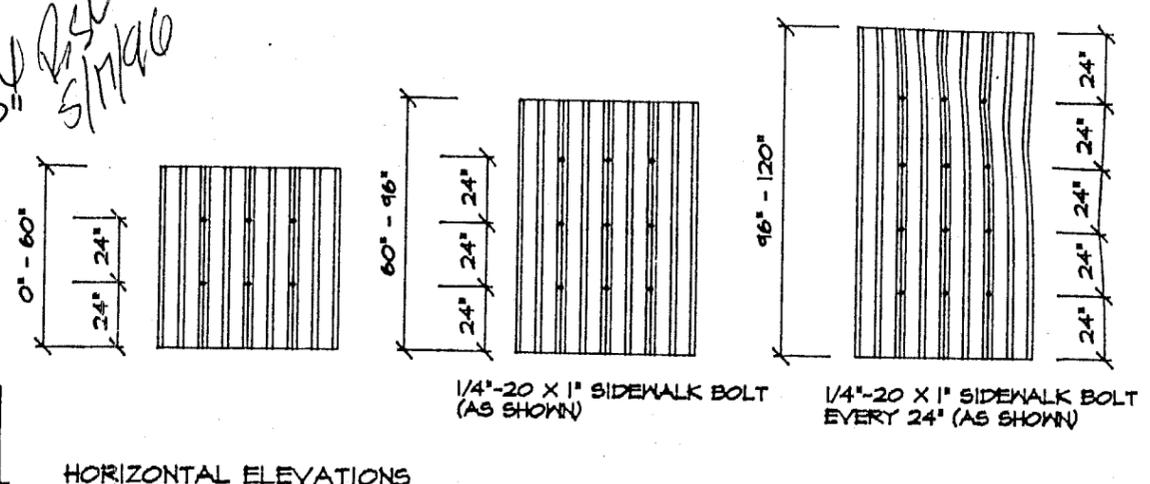
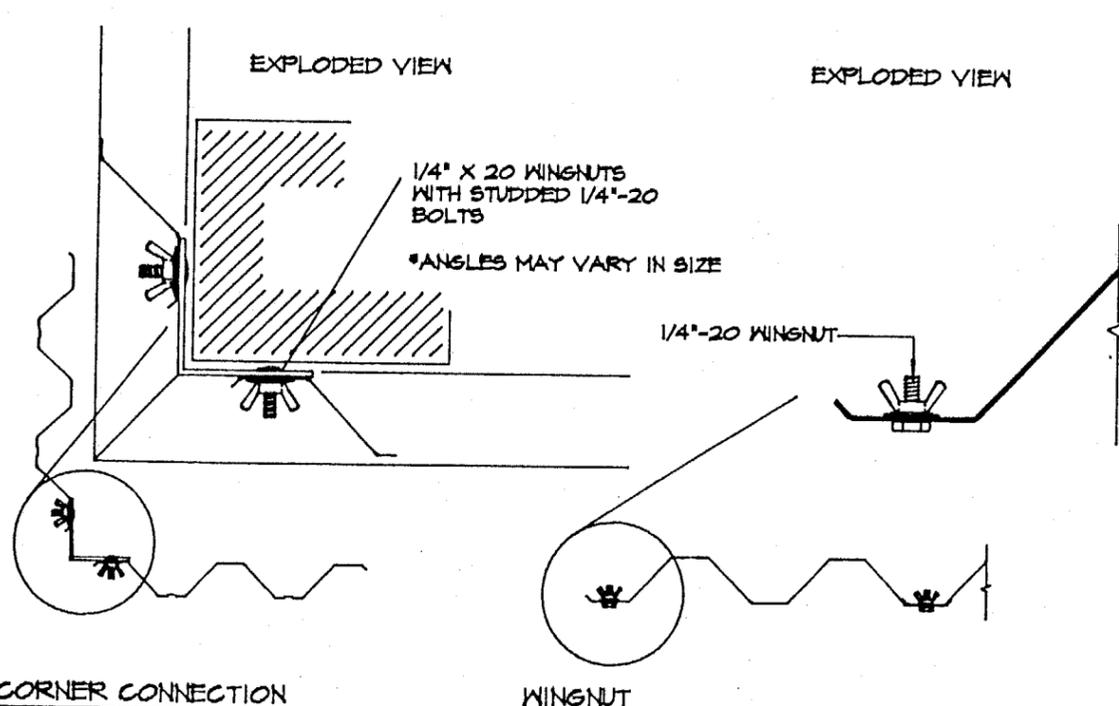
<i>[Signature]</i>
Monsour
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**PRODUCT RENEWED**  
 ACCEPTANCE No. 00-0201.02  
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 By Helmut A. M...  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

**ADDITIONAL HARDWARE**

*PANEL SPAN CAN NOT EXCEED 120"*  
*See SIM 140*



PANEL HEIGHT	0" - 60"	60" - 96"	96" - 120"
	MIN. DISTANCE BETWEEN GLASS AND PANEL		
WALL MOUNT	3 1/4"	3 1/4"	3 1/4"
INSIDE MOUNT	3 1/4"	3 1/4"	3 1/4"
BUILD OUT	3 1/4"	3 1/4"	3 1/4"
DIRECT MOUNT	3 1/4"	3 1/4"	3 1/4"

**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.

*Monson*  
*5/16/96*

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE JUNE 13, 1996  
 BY [Signature]  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 95-1220.01

REVISIONS	BY
2/19/96	
2/25/96	
4/30/96	
5/16/96	

RAMMS ENGINEERING, INC.  
*Structural Design*  
 2100 N. 79th STREET, SUITE 201  
 MIAMI, FLORIDA 33188  
 EB 0006024

MIAMI DADE ALUMINUM SUPPLY  
 1615 W 31 PLACE  
 HIALEAH, FLORIDA

<i>Monson</i>
12/6/95
3126
<b>4</b>