



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

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

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Southeastern Metals Manufacturing Co., Inc.
11801 Industry Drive
Jacksonville, FL 32226

Your application for Notice of Acceptance (NOA) of:

0.063" Aluminum Storm Panels 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 NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time 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 by 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.: 01-0718.15
EXPIRES: 11/15/2006

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 Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 11/15/2001

Southeastern Metals Manufacturing Co., Inc.

ACCEPTANCE No. : 01-0718.15

APPROVED : 11/15/2001

EXPIRES : 11/15/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This approves an 0.063" aluminum storm panels 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 panels shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 01-215, prepared by Engco, Inc., last revision #1 dated August 24, 2001, sheets 1 through 3 of 3, signed and sealed by Pedro De Figueiredo, 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. 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 panels 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".

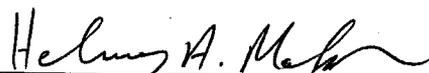
6. BUILDING PERMIT REQUIREMENTS

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

Southeastern Metals Manufacturing Co., Inc.

ACCEPTANCE No. : 01-0718.15

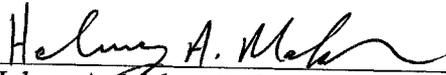
APPROVED : 11/15/2001

EXPIRES : 11/15/2006

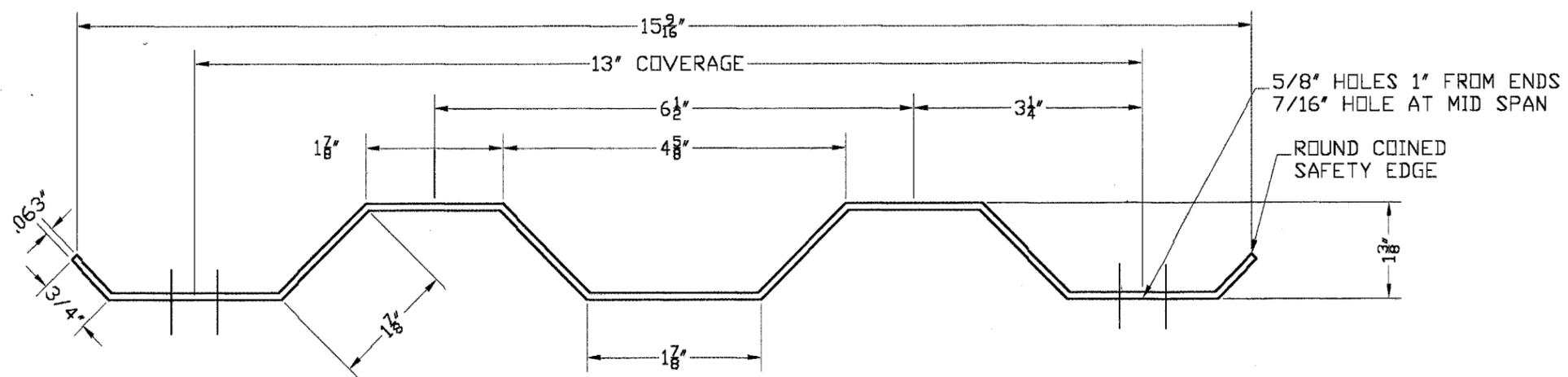
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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 time. 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



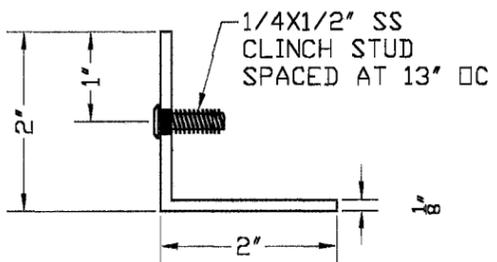
Helmy A. Makar, P.E. – Product Control Examiner
Product Control Division



1- TYPICAL .063 ALUMINUM PANEL

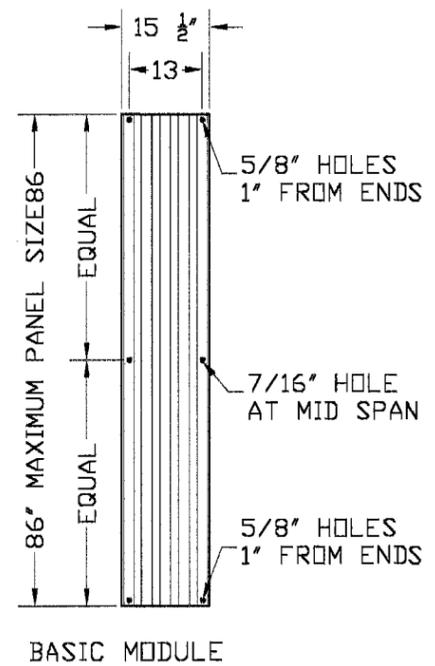
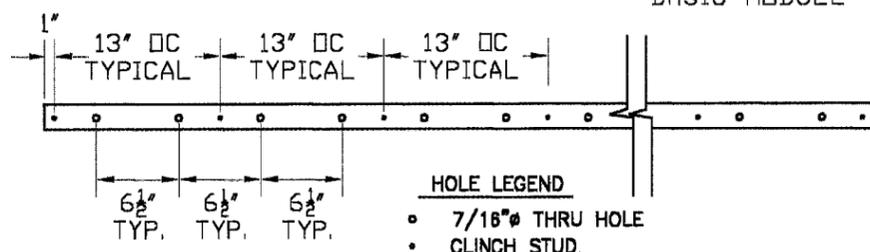
5052-H32 ALLOY OR 3004-H34 ALLOY
(Fy=25 Ksi - MIN.)

DESIGNED PRESSURES:
Pd= +80 -80 PSF

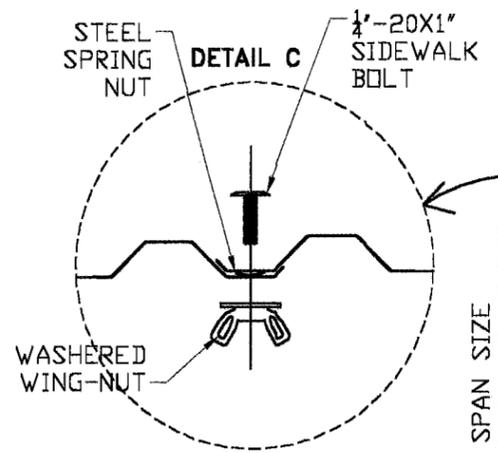


2- STUD ANGLE
6063-T6 ALLOY (Ftu= 30 Ksi & Fty=25 Ksi)

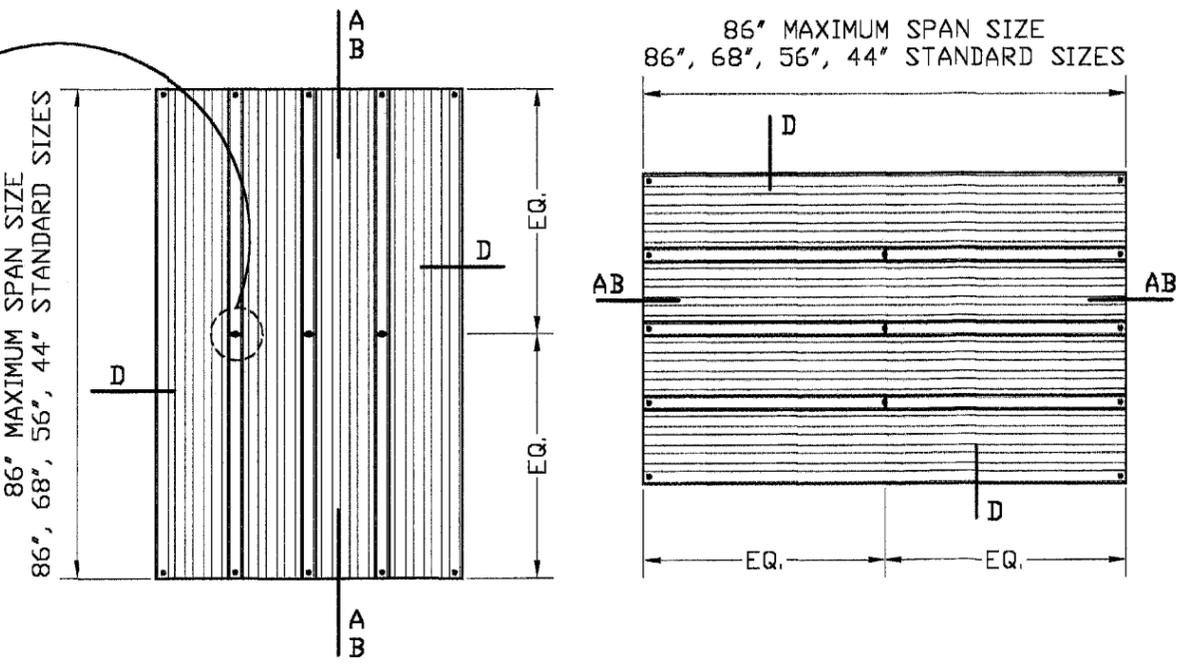
STUD ANGLE LAY-OUT



TYPICAL ELEVATION
PANELS CAN BE INSTALLED VERTICALLY OR HORIZONTALLY USING APPLICABLE ANCHORING DETAILS



TYPICAL DETAIL: Reinforced panels with stitch bolt and spring nut at mid-span secure at each lap joint with washered wing nut. REQUIRED AT MID SPAN FOR ALL SHUTTER SPANS.



GENERAL NOTES:

- 1- THIS STRUCTURE IS DESIGNED AS PER THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI DADE COUNTY, ALSO FOR WIND LOADS AS PER ASCE 7-88 USING CORRESPONDING LOADS.
- 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.
- 5- PRODUCT MARKINGS SHALL BE ONE PER EACH PANEL END AND SHALL BE LABELED AS FOLLOWS:
SOUTHEASTERN METALS MANUFACTURING
JACKSONVILLE - FLORIDA
DADE COUNTY PRODUCT APPROVED

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 11/15/2001
BY Helmy A. M. M.
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0718-15

Manufacturer:

Southeastern Metals Manufacturing Co., Inc.

11801 Industry Drive
Jacksonville - Florida
Tel.: (904) 757-4200

Product:
0.063 Aluminum Storm Panels

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304

AUG 24 2001
Engineer Seal
Pedro De Figueiredo
PE 52609

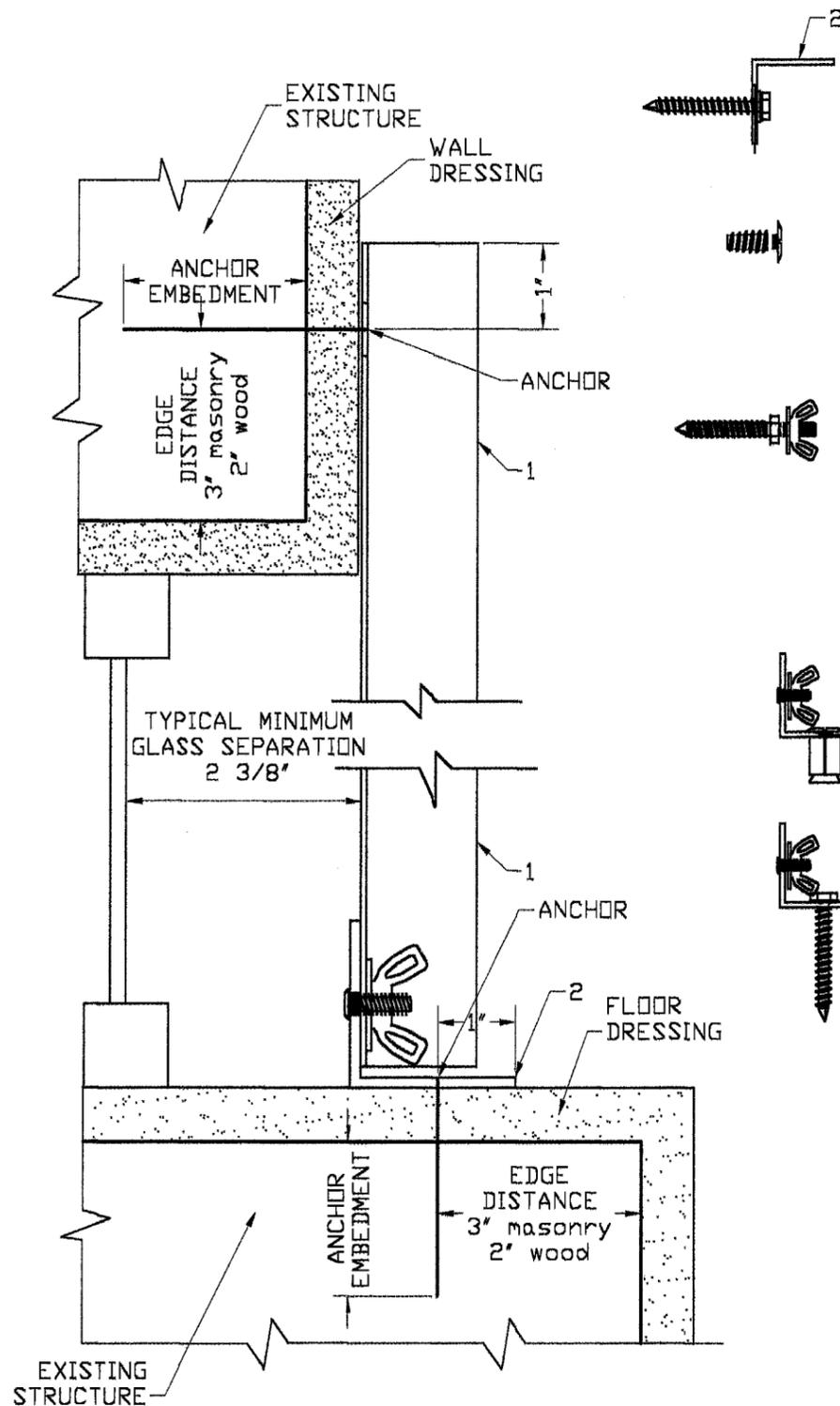
Date: 07/06/01
Scale: 1:32
Design by: PPMF

Revision:
① 812461

Drawing Number
01-215

Sheet
1 of 3

DETAIL A - WALL MOUNT



OPTION A1 - STUDDED ANGLE TO WOOD WALL
 STRUCTURE: WOOD
 ANCHOR TYPE: 1/2" WOOD LAG SCREWS
 ANCHOR EMBEDMENT: 1 7/8" MIN.

OPTION A2 - REMOVABLE WALL STUDDED ANGLE
 STRUCTURE: HOLLOW BLOCK OR CONCRETE
 ANCHOR TYPE: 1/4"-20 RAWL CALK-IN W/ 1/4"-20 SS SIDEWALK BOLT
 ANCHOR EMBEDMENT: 7/8" MIN.

OPTION A3 - REMOVABLE WALL STUDDED ANGLE
 STRUCTURE: WOOD
 ANCHOR TYPE: 1/4"-20 BRASS WOOD BUSHING W/ 1/4"-20 SS SIDEWALK BOLT
 ANCHOR EMBEDMENT: 1" MIN.

OPTION A4 - PANEL MATE PLUS
 STRUCTURE: WOOD, CONCRETE AND HOLLOW BLOCK
 ANCHOR TYPE: 1/2"x2 1/2" PANEL MATE PLUS W/ WASHERED WING NUT
 ANCHOR EMBEDMENT: 2 3/8" (Wood), 1 1/2" (Block), 2" (Concrete)

OPTION A5 - MALE PANEL MATE
 STRUCTURE: WOOD, CONCRETE AND HOLLOW BLOCK
 ANCHOR TYPE: 1/2"x2 1/2" PANEL MATE W/ WASHERED WING NUT
 ANCHOR EMBEDMENT: 1 1/2" (Block), 1 3/4" (Concrete), 1 1/2" (Wood).

OPTION A6 - FIXED STUDDED ANGLE WALL
 STRUCTURE: BLOCK AND CONCRETE
 ANCHOR TYPE: 1/2" TAPCONS SCREWS
 ANCHOR EMBEDMENT: 1 1/4" MIN. (Block) 1 3/4" (Concrete)

DETAIL B - FLOOR MOUNT

OPTION B1 - REMOVABLE FLOOR STUDDED ANGLE
 STRUCTURE: CONCRETE
 ANCHOR TYPE: 1/4"-20 RAWL CALK-IN W/ 1/4"-20 SS SIDEWALK BOLT
 ANCHOR EMBEDMENT: 7/8" MIN.

OPTION B2 - REMOVABLE FLOOR STUDDED ANGLE
 STRUCTURE: WOOD
 ANCHOR TYPE: 1/4"-20 BRASS WOOD BUSHING W/ 1/4"-20 SS SIDEWALK BOLT
 ANCHOR EMBEDMENT: 1" MIN.

OPTION B3 - FIXED FLOOR STUDDED ANGLE
 STRUCTURE: CONCRETE
 ANCHOR TYPE: 1/2" TAPCONS BY ELCO
 ANCHOR EMBEDMENT: 1 3/4" MIN.

ALLOWABLE ANCHORAGE SPACING (inches)

Pd= ±80 PSF MOUNT TYPE	PANEL SIZES (in)			
	86	68	56	44
A1 Wood	13.0	13.0	13.0	13.0
A2 block	6.5	13.0	13.0	13.0
A2 Conc	13.0	13.0	13.0	13.0
A3 Wood	na	6.5	6.5	6.5
A4 block	6.5	6.5	13.0	13.0
A4 Conc./ Wood	13.0	13.0	13.0	13.0
A5 Block/ Conc./ Wood	13.0	13.0	13.0	13.0
A6 Block	6.5	13.0	13.0	13.0
A6 Concrete	13.0	13.0	13.0	13.0
B1 Concrete	13.0	13.0	13.0	13.0
B2 Wood	na	6.5	6.5	6.5
B3 Concrete	13.0	13.0	13.0	13.0

na- Not Acceptable
 Notes: 1- Hollow Blocks shall be with minimum 2071 Psi Compressive Strength
 2- Concrete shall be with minimum 3000 Psi Compressive Strength.

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 11/15/2001
 BY *Helmut A. Mark*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0718-15

Manufacturer: 
**Southeastern
 Metals
 Manufacturing
 Co., Inc.**

11801 Industry Drive
 Jacksonville - Florida
 Tel.: (904) 757-4200



Product:
**0.063
 Aluminum
 Storm Panels**

Engineering:
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AUG 24 2001

Engineer Seal
 Pedro De Figueiredo
 PE 52609

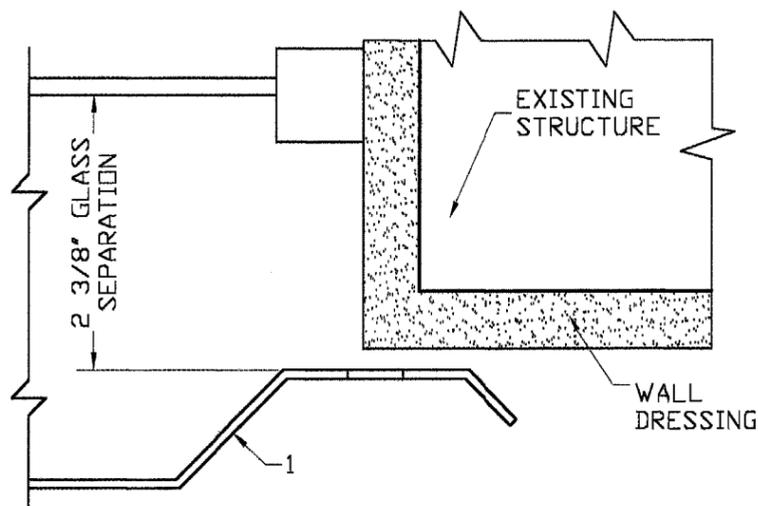
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 Design by: PPMF

Revision:
 1- 08/24/01

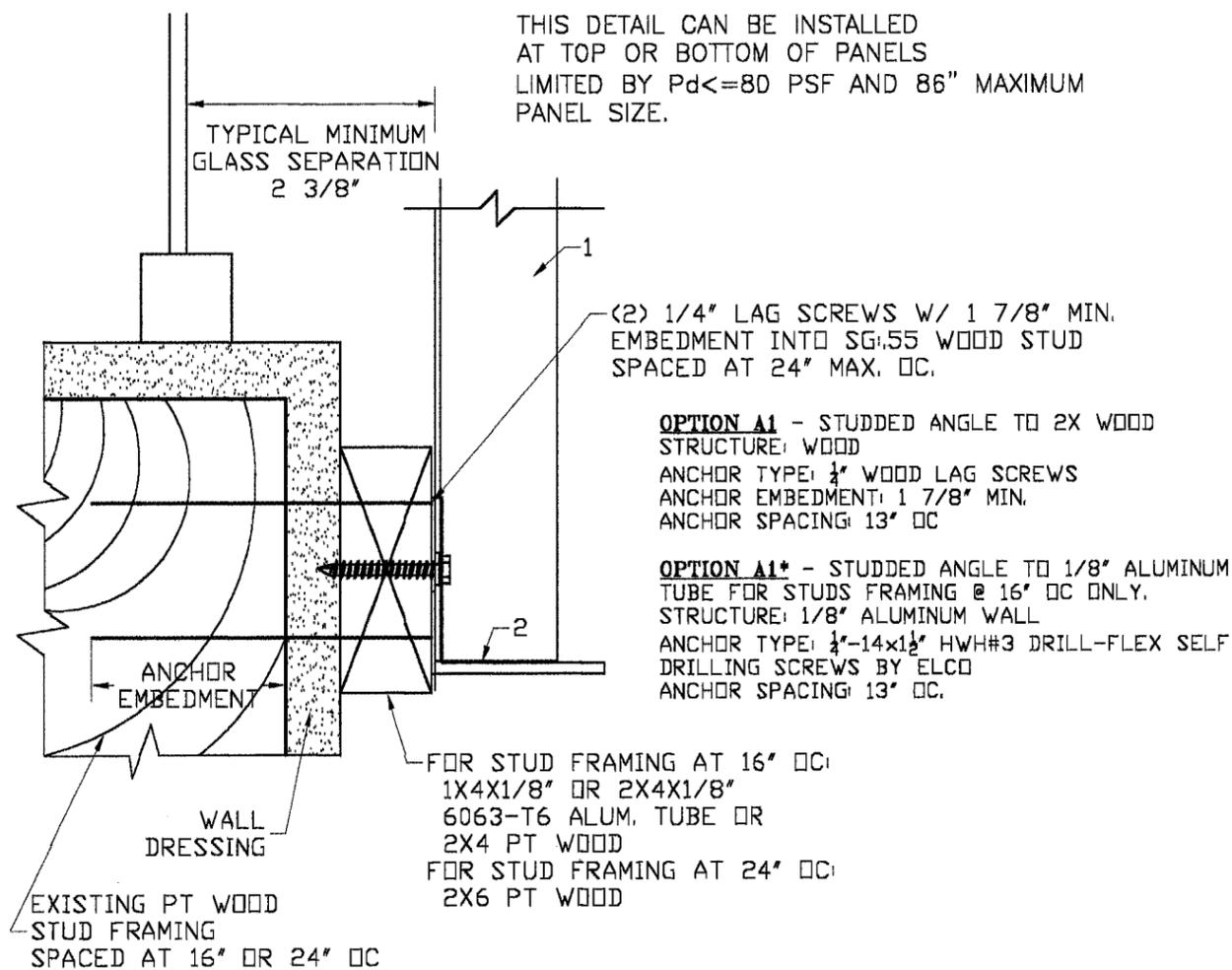
Drawing Number
01-215

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INSTALLATION ON WOOD STUDDED WALL



DETAIL D



APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE: 11/15/2001
BY: *Helmy A. Mark*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
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Manufacturer: 
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Engineer Seal
Pedro De Figueiredo
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Date: 06/19/01
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Drawing Number
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