



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

Atlantic Shutters Inc.
15421 West Dixie Hwy. Bay 23
North Miami Bch ,FL 33162

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.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 01-0124.15
EXPIRES: 03/26/2006

**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: 04/12/2001



Atlantic Shutters, Inc.

ACCEPTANCE No. : 01-0124.15

APPROVED : 04/12/2001

EXPIRES : 03/26/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This revises and renews the Notice of Acceptance No. 99-0208.02, which was issued on March 4, 1999. It 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. 01-210, titled "0.063" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., dated January 18, 2001, sheets 1 through 7 of 7, 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".

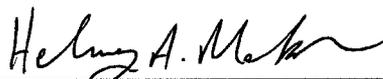
6. BUILDING PERMIT REQUIREMENTS

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

Atlantic Shutters, Inc.

ACCEPTANCE No. : 01-0124.15

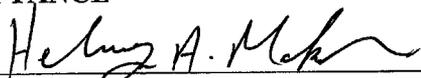
APPROVED : 04/12/2001

EXPIRES : 03/26/2006

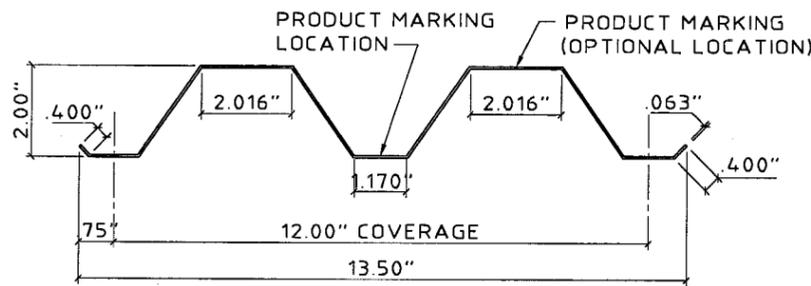
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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

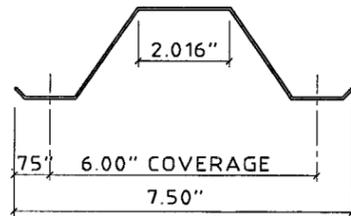


Helmy A. Makar, P.E. - Product Control Examiner
Product Control Division



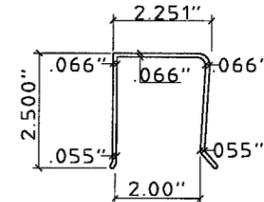
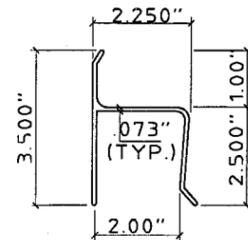
FULL PANEL

1 STORM PANEL
SCALE: 3" = 1'-0"

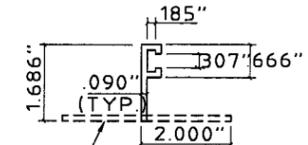


HALF PANEL

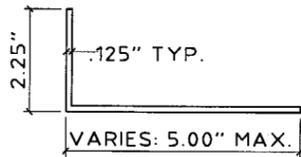
2 "h" HEADER
SCALE: 3" = 1'-0"



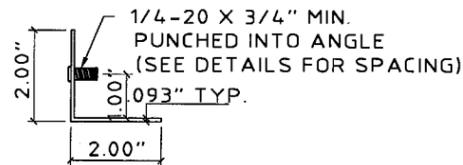
3 "U" HEADER
SCALE: 3" = 1'-0"



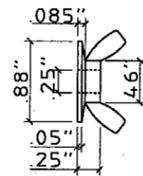
4 OPTIONAL ANGLE
SCALE: 3" = 1'-0"



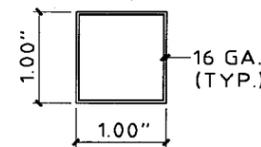
5 ANGLE
SCALE: 3" = 1'-0"



6 STUDDED ANGLE
SCALE: 3" = 1'-0"



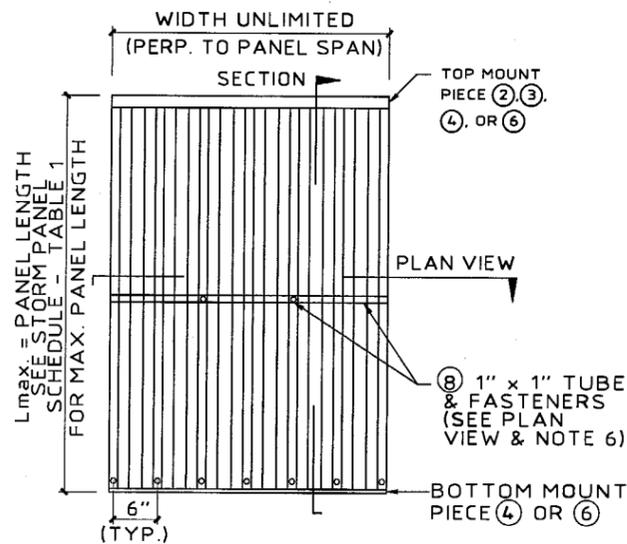
7 WASHERED WINGNUT
SCALE: HALF SIZE
(ZAMAC 3 ALLOY)



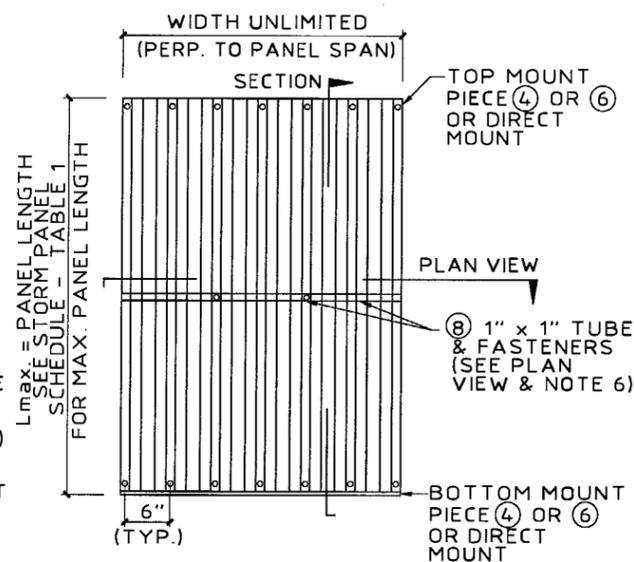
8 16 GAGE STEEL TUBE
SCALE: HALF SIZE

GENERAL NOTES:

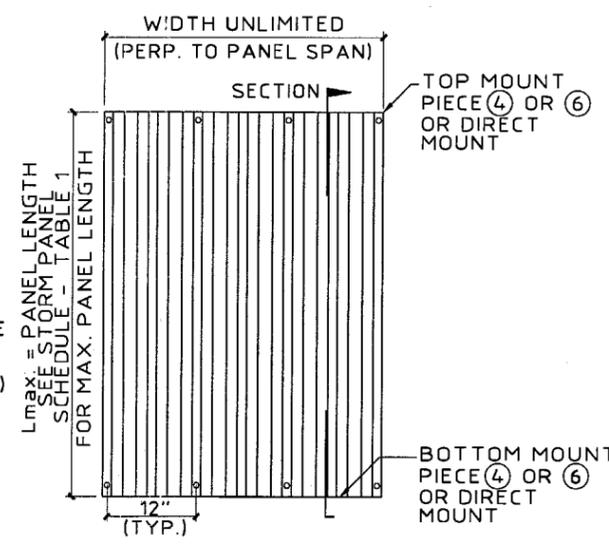
- THIS SHUTTER SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE, 1994 EDITION.
- POSITIVE AND NEGATIVE DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED FOR SPECIFIC JOBS IN ACCORDANCE WITH A.S.C.E. 7-88 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES". TABLES SHALL BE REFERENCED AT THE APPROPRIATE DESIGN LOAD.
- STORM PANELS SHALL BE 5052-H32 OR 3004 H-34 ALUMINUM ALLOY, 0.063" THICK, WITH A MINIMUM F_y OF 26 K.S.I. (BEFORE ROLLING). ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL, AND SHALL BE LABELED AS FOLLOWS:
ATLANTIC SHUTTERS, INC.
NORTH MIAMI BEACH, FLORIDA
MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL BOLTS AND WASHERS SHALL BE GALV. STAINLESS STEEL OR HAVE APPROVED COATING WITH A MIN. TENSILE STRENGTH OF 60 K.S.I.
- FOR TYPE I OR II PANELS LESS THAN 101" HIGH SHALL BE FASTENED AT OVERLAPS, AT MIDSPAN, WITH 1/4-20 x 3-1/2" MACHINE SCREW SIDEWALK BOLTS WITH DIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS; UTILIZING A 1" x 1" x 16 GAGE STEEL TUBE AT MIDSPAN. (SEE TYPICAL ELEVATION). TYPE I OR II PANEL SPANS GREATER THAN 101" BUT LESS THAN 135-1/2". USE FASTENERS AND TUBE AT 1/3 SPANS FOR TYPE I AND II. FOR PANEL SPANS LESS THAN 33" OVERLAP FASTENERS AND TUBE AT SEAMS ARE NOT REQUIRED. FOR TYPE III PANELS, NO FASTENERS OR TUBE AT PANEL OVERLAPS ARE REQUIRED.
- MATERIAL SPECIFICATIONS NOTED HEREIN ARE THE MATERIALS USED IN PRODUCT TESTING.
- THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH MIAMI-DADE COUNTY PROTOCOLS PA 201, 203, AND 202. REFERENCE CONSTRUCTION TESTING CORPORATION (C.T.C.) TEST REPORTS No. 95-006, 96-007 & 96-007R.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
- AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF STORM PANEL SYSTEM, ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS AND TUBE ARE PROPERLY INSTALLED, WHEN NEEDED.



TYPICAL ELEVATION - TYPE I



TYPICAL ELEVATION - TYPE II



TYPICAL ELEVATION - TYPE III

UNLESS CLOSER SPACING REQ. FOR DIRECT MOUNT
NO FASTENER & TUBE REQUIRED TO HOLD PANEL SEAMS TOGETHER FOR THESE MOUNTING CONDITIONS.

FASTENER @ 12" O.C. FOR DESIGN LOADS LESS THAN OR EQUAL TO 110 P.S.F. AND @ 8" O.C. FOR DESIGN LOADS GREATER THAN 110 P.S.F.

EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. (SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE)

OVERLAP FASTENERS TYP. (SEE NOTE # 6)

ALUM. ANGLE CLOSURE PIECE: 1" x 2" x .055" MIN. TO 2" x 5" x .055" MAX.



EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. (SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE)

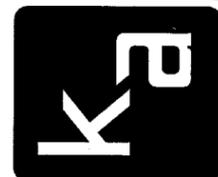
PLAN VIEW
SCALE: 1-1/2" = 1'-0"

ALUM. ANGLE CLOSURE PIECE: TO BE CONTINUOUS FROM INSIDE HEADER THROUGH BOTTOM SILL 1" x 2" x .125" MIN. TO 2" x 5" x .125" MAX.

FASTENER @ 12" O.C. FOR DESIGN LOADS LESS THAN OR EQUAL TO 110 P.S.F. AND @ 8" O.C. FOR DESIGN LOADS GREATER THAN 110 P.S.F.

EXISTING CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. (SEE ANCHOR SCHED. BASED ON TYPE OF STRUCTURE)

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: 04/12/01
BY: *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0124-15



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2988 • FLORIDA COA #3205
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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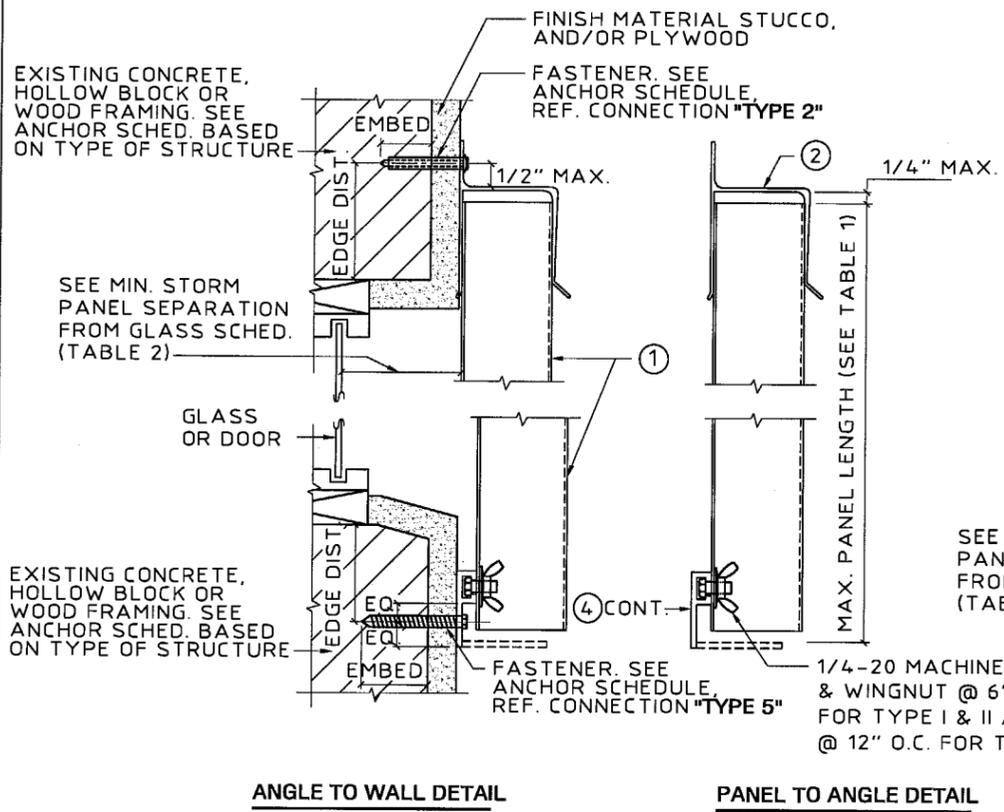
0.063" ALUMINUM STORM PANEL
15421 West Dixie Highway Bay 23
North Miami Beach, Florida 33162
ph: (305) 945-7277 fax: (305) 945-1131
ATLANTIC SHUTTERS, inc.

no.	date	description
00	01/18/2001	JR PREV. DRAWING NO. 95-036

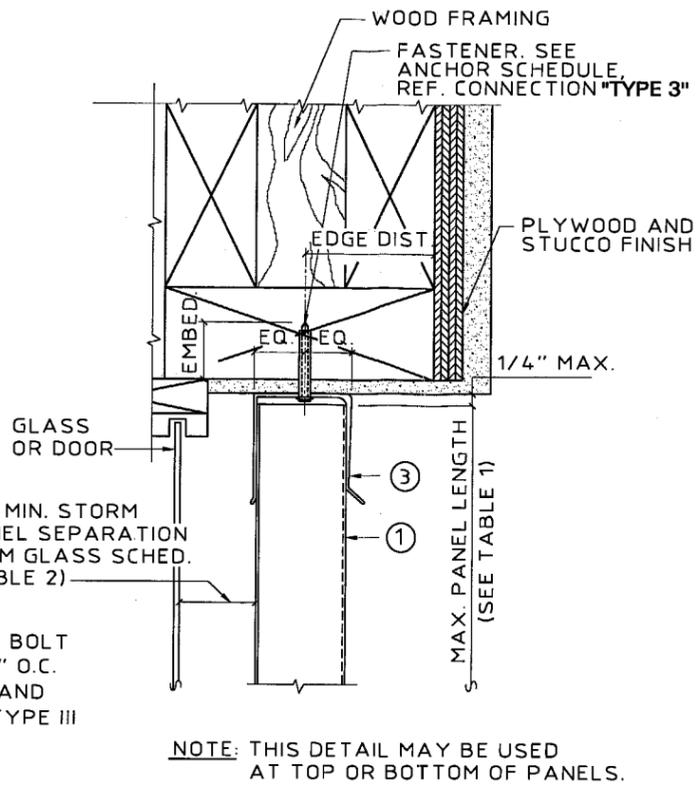
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE/0010983

JAN 22 2001

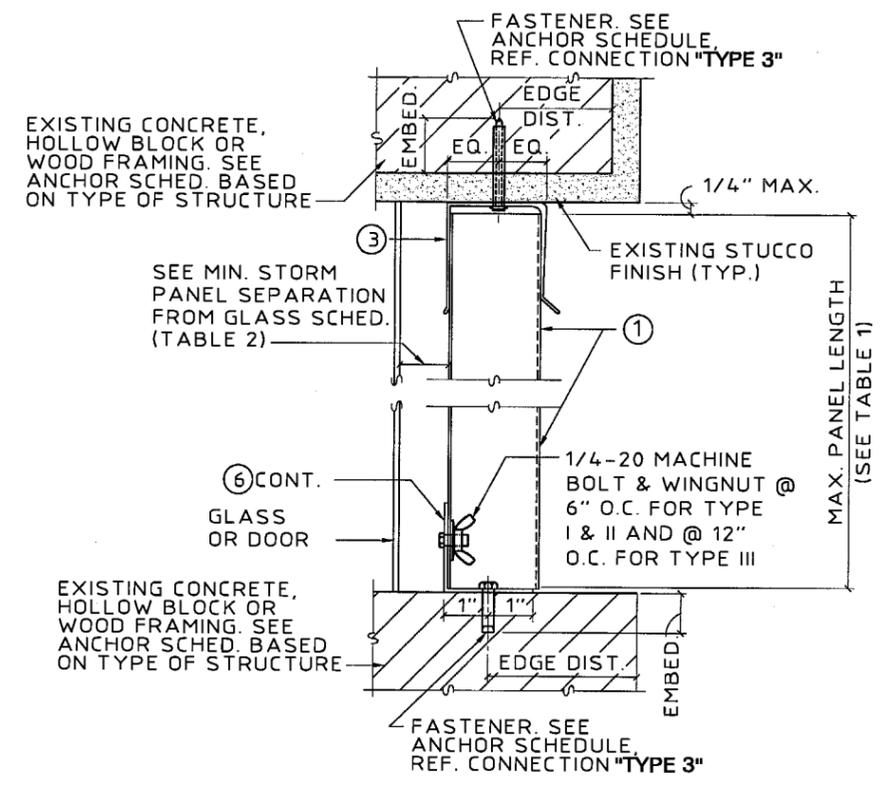
date	01/18/01
scale	AS NOTED
drawn by	AV
design by	VJK
checked by	VJK
drawing no.	01-210
sheet	1 of 7



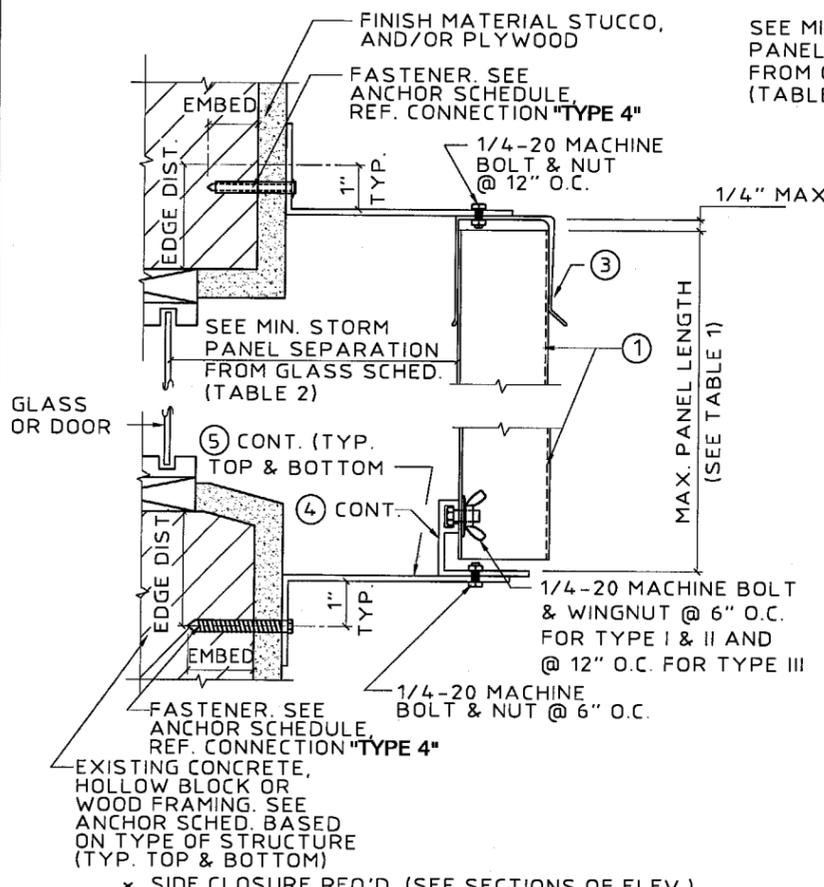
(A) WALL MOUNT SECTION
 SCALE : 3" = 1'-0"



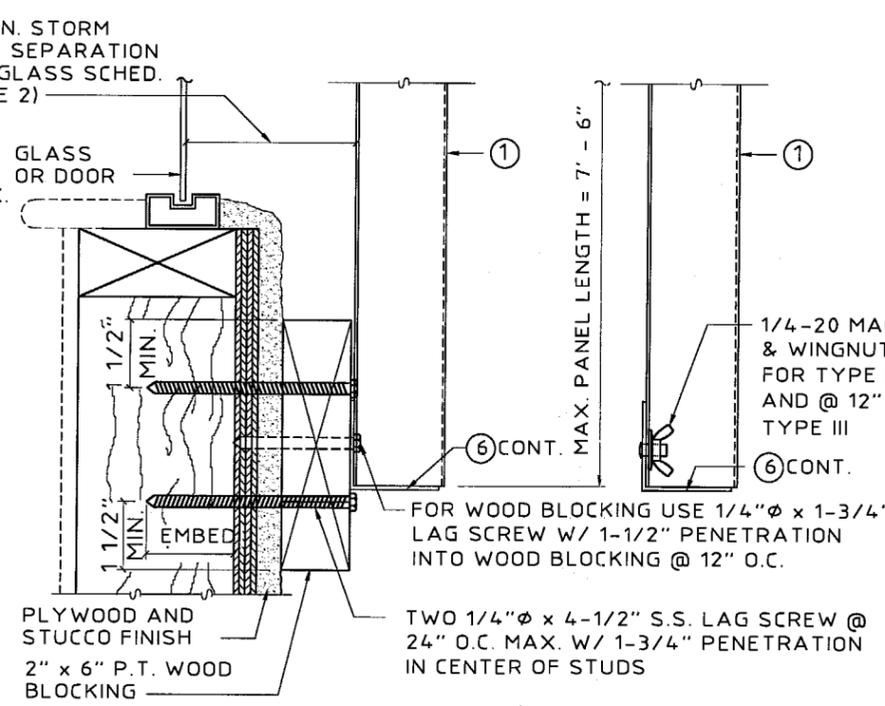
(B) WOOD CEILING/INSIDE MOUNT SECTION
 NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANELS.
 SCALE : 3" = 1'-0"



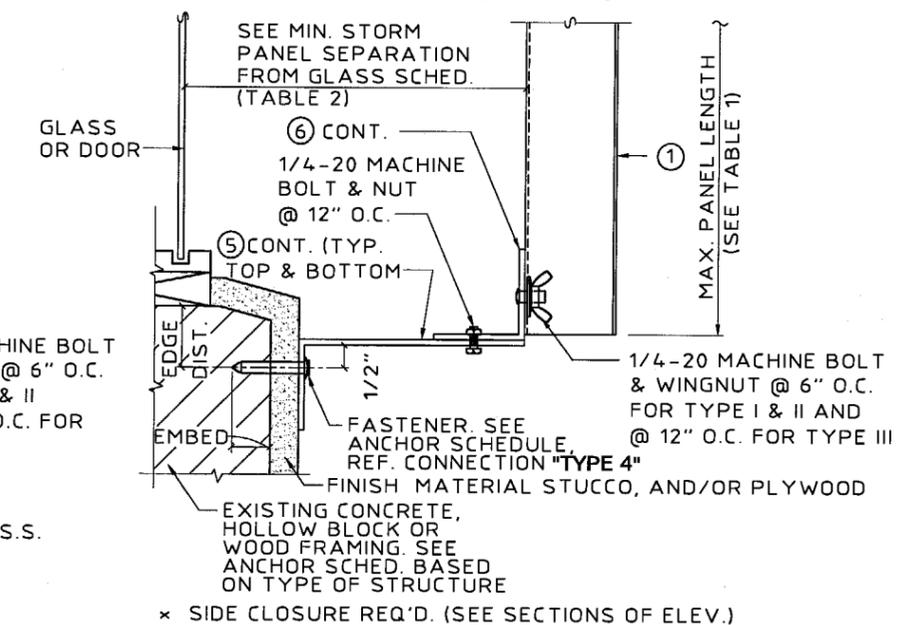
(C) CEILING/INSIDE MOUNT SECTION
 SCALE : 3" = 1'-0"



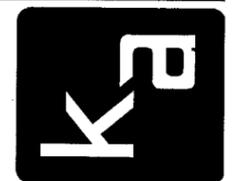
(D) BUILD-OUT MOUNT SECTION
 SCALE : 3" = 1'-0"



(E) WALL MOUNT SECTION (BOTTOM)
 NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANELS.
 SCALE : 3" = 1'-0"



(F) ALT. BUILD-OUT MOUNT SECTION
 NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANELS.
 - HEADERS (2) & (3) CAN NOT BE USED IN COMBINATION WITH THIS DETAIL
 SCALE : 3" = 1'-0"



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING

1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2888 • FLORIDA COA #3205
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM

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0.063" ALUMINUM STORM PANEL

15421 West Dixie Highway Bay 23
 North Miami Beach, Florida 33162
 ph: (305) 945-7277
 fax: (305) 945-1131

ATLANTIC SHUTTERS, inc.

NO.	DATE	BY	DESCRIPTION
00	01/18/01	VJK	REV. DRAWING NO. 99-036

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER

FL License No: PE 0010983

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE 04/12/01

BY *Helmut H. Mohr*

PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE

ACCEPTANCE NO. 01-0124-15

date 01/18/01

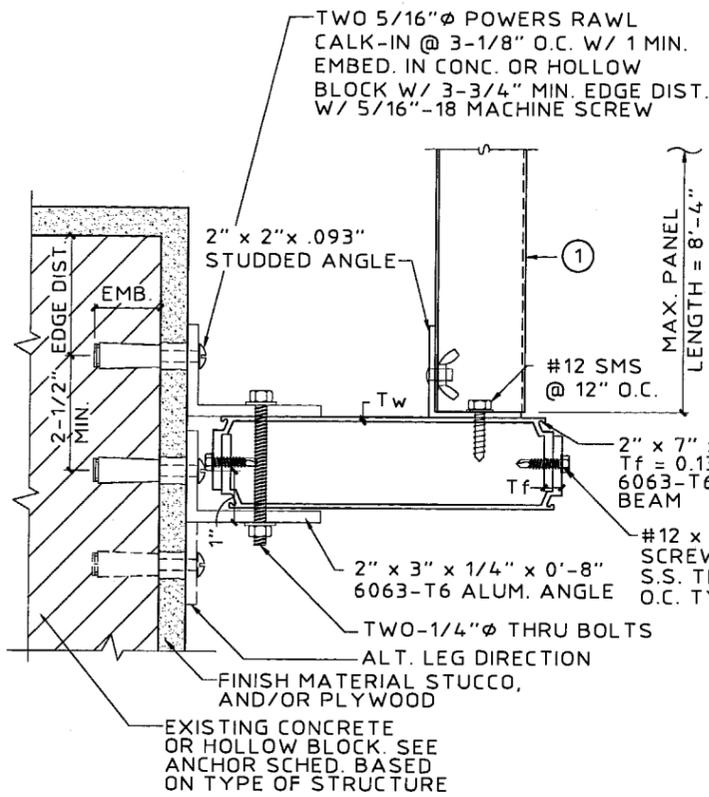
scale AS NOTED

design by VJK

checked by VJK

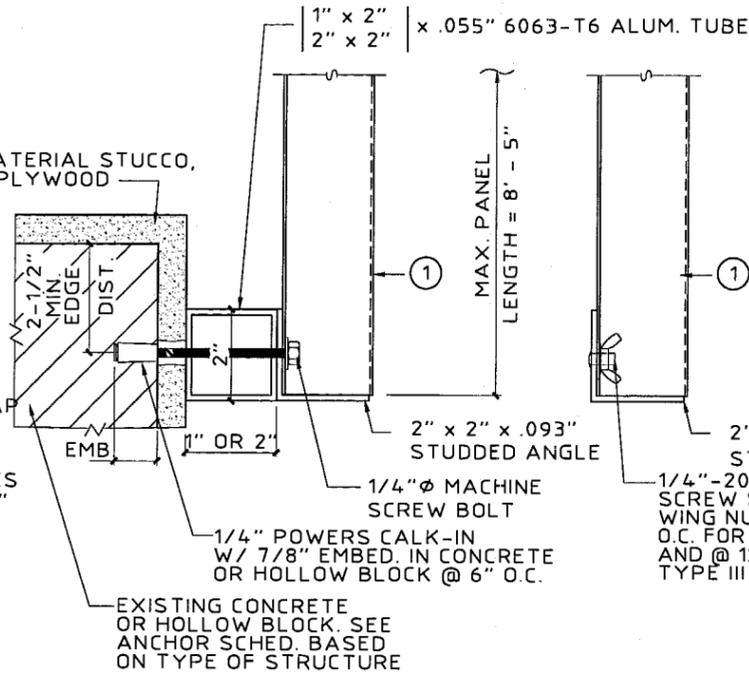
drawing no. 01-210

sheet 2 of 7



NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANEL.
(MAX. DESIGN LOAD ± 72 PSF)

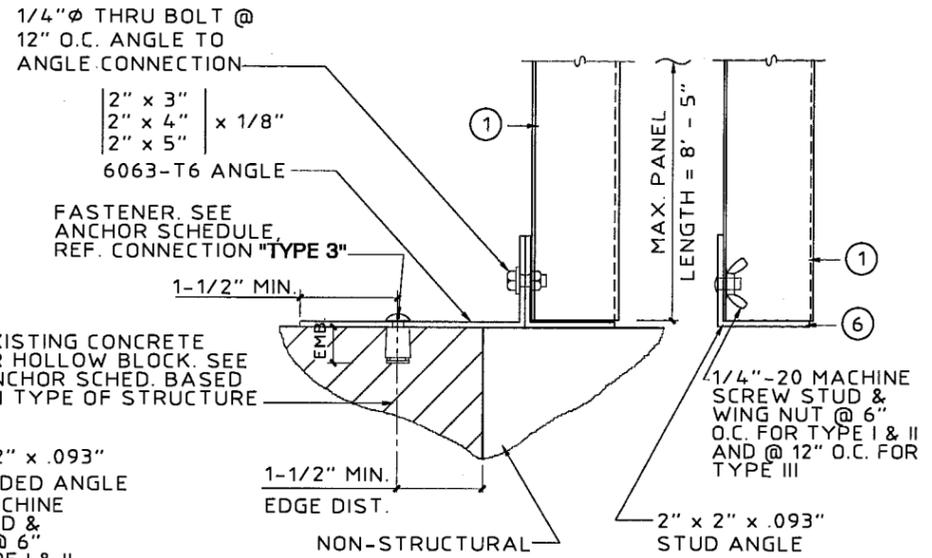
M STORM PANEL SUPPORT BEAM
SCALE: 3" = 1'-0"



(MAX. DESIGN LOAD ± 72 PSF)

NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANEL.

N 2" x 2" ALUM. TUBE BUILD-OUT
SCALE: 3" = 1'-0"

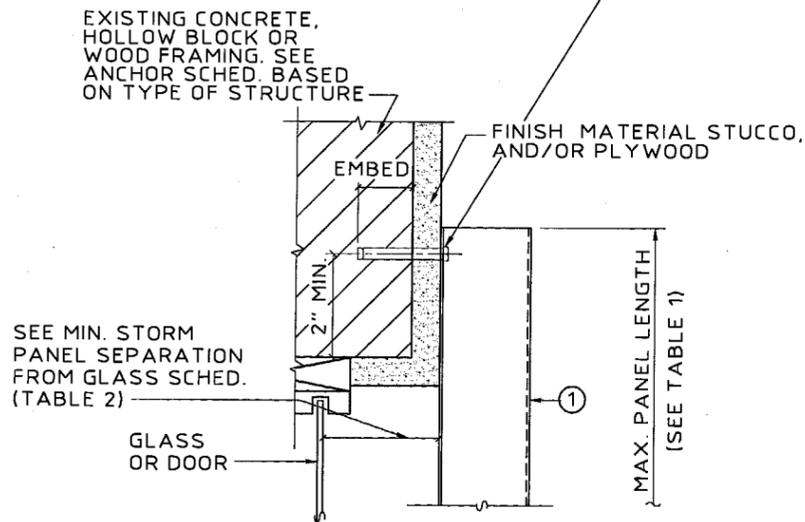


NOTE: THIS DETAIL MAY BE USED AT TOP OR BOTTOM OF PANEL.

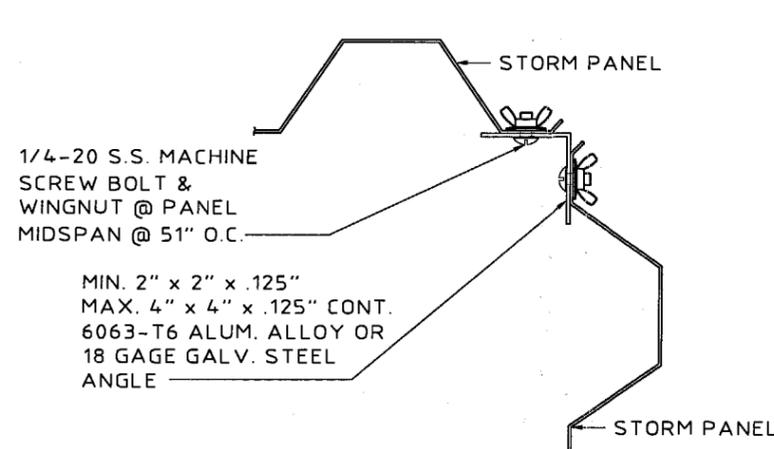
(MAX. DESIGN LOAD ± 72 PSF)

O STORM PANEL BUILD-OUT
SCALE: 3" = 1'-0"

USE REMOVABLE ANCHORS ONLY @ 6" O.C. MAX. FOR TYPE I & II AND @ 12" O.C. MAX. FOR TYPE III. BUT DO NOT EXCEED ANCHOR SCHEDULE SPACING. FASTENER SEE ANCHOR SCHEDULE REF. CONNECTION "TYPE 1" (LOCATE FASTENER IN NARROW PORTION OF KEYHOLE SLOT)

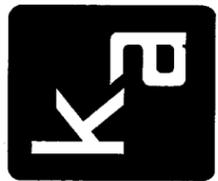


P DIRECT MOUNT DETAIL
SCALE: 3" = 1'-0"



Q ALT. CORNER DETAIL
SCALE: 3" = 1'-0"

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE 04/12/01
BY *Helmut A. Mohr*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0124.15



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ATLANTIC SHUTTERS, inc.

REVISIONS	
no.	description
00	01/18/01 VJK PREY DRAWING NO. 99-036

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0010983

JAN 22 2001
date 01/18/01
scale AS NOTED drawn by AV
design by VJK checked by VJK
drawing no. 01-210
sheet 4 of 7

ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX.	2" EDGE DISTANCE															3" EDGE DISTANCE																
			5'-0" MAX. SPAN					8'-5" MAX. SPAN					11'-4" MAX. SPAN					5'-0" MAX. SPAN					8'-5" MAX. SPAN					11'-4" MAX. SPAN						
			CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE						
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2
HOLLOW CONCRETE BLOCK	 1/4" Ø POWERS/RAWL CALK-IN W/ 7/8" EMBED. & 1/4-20 SIDEWALK BOLT (3/4" Ø HEAD)	48	12	12	11	6	8	12	4	6	3	5	10	4	3	12	12	12	7	11	12	5	10	4	6	12	7	3	4					
		62	12	9	8	4	6	10	5	4	8	3	3	12	11	12	6	8	12	3	7	3	5	10	5	3	12	5	3	4				
		72	12	5	7	4	5	9	4	3	6	3	12	7	11	5	7	11	6	3	4	8	4	3	12	4	3	12	4	3	4			
		92	12	3	5	3	4	7	3	5	5	12	3	8	4	5	9	5	3	7	12	4	3	12	4	3	12	4	3	4	5			
		200	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	 1/4" Ø POWERS/RAWL ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBED.	48	12	12	10	5	6	10	3	6	3	3	7	4	12	12	12	6	7	11	3	7	3	4	8	5	3	12	5	3	4			
		62	12	6	8	4	5	8	4	3	5	3	12	7	9	4	5	9	5	3	6	12	4	3	6	4	3	12	4	3	4			
		72	11	4	7	3	4	6	4	3	5	3	12	4	8	4	4	7	5	3	12	4	3	12	4	3	12	4	3	4	5			
		92	9	5	3	3	5	3	4	3	4	3	10	6	3	3	6	3	5	3	12	5	3	12	4	3	12	4	3	4	5			
		200	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
	 1/4" Ø ELCO FEMALE "PANELMATE" W/ 1-1/4" MIN. EMBED. & 1/4-20 SIDEWALK BOLT	48	12	12	12	8	10	12	4	7	5	6	11	5	3	4	12	12	12	8	10	12	4	8	5	6	12	6	3	4				
		62	12	10	9	6	7	12	5	3	4	9	4	3	12	11	11	6	8	12	6	4	4	9	5	3	3	12	5	3	3			
72		12	6	8	5	6	10	5	3	4	7	3	12	6	9	5	6	10	5	3	4	8	4	3	12	4	3	12	4	3	4			
92		12	3	6	4	5	8	3	3	6	3	12	3	7	4	5	8	4	3	7	12	3	7	3	12	3	12	3	12	3	4			
200		6	3	2	2	6	3	6	3	6	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	4		
 1/4" Ø ELCO MALE "PANELMATE" W/ 1-1/4" MIN. EMBEDMENT	48	12	12	12	8	10	12	4	7	5	6	11	5	3	4	12	12	12	8	10	12	4	8	5	6	12	6	3	4					
	62	12	10	9	6	7	12	5	3	4	9	4	3	12	11	11	6	8	12	6	4	4	9	5	3	3	12	5	3	3				
	72	12	6	8	5	6	10	5	3	4	7	3	12	6	9	5	6	10	5	3	4	8	4	3	12	4	3	12	4	3	4			
	92	12	3	6	4	5	8	3	3	6	3	12	3	7	4	5	8	4	3	7	12	3	7	3	12	3	12	3	12	3	4			
	200	6	3	2	2	6	3	6	3	6	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	7	3	4		
 1/4" Ø ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12	12	7	4	5	8	4	3	6	3	12	12	9	4	5	9	5	3	6	4	3	12	4	3	12	4	3	4					
	62	10	5	5	3	3	6	3	4	4	11	6	7	3	4	7	4	3	12	4	3	12	4	3	12	4	3	12	4	3	4			
	72	9	3	5	3	3	5	4	3	4	10	3	6	3	3	6	3	4	12	3	4	12	3	4	12	3	4	12	3	4	5			
	92	7	3	3	3	4	3	4	3	3	8	4	3	3	4	3	4	3	12	3	4	12	3	4	12	3	4	12	3	4	5			
	200	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4		
 1/4" Ø DYNABOLT SLEEVE ANCHOR W/ 1-1/8" MIN. EMBED.	48	12	12	8	4	5	8	5	3	6	3	12	12	12	5	7	11	3	7	3	4	8	5	3	12	5	3	12	5	3				
	62	11	5	6	3	4	6	3	5	4	12	7	9	4	5	8	5	3	6	12	4	3	6	4	3	12	4	3	12	4	3			
	72	9	3	5	3	3	5	3	4	4	12	4	8	3	4	7	4	3	5	12	3	4	5	3	4	12	3	4	12	3	4			
	92	7	4	3	3	4	3	4	3	3	9	6	3	3	5	3	4	3	12	4	3	12	4	3	12	4	3	12	4	3	4			
	200	3	3	3	3	3	3	3	3	3	4	3	3	3	4	3	3	4	3	12	3	3	12	3	3	12	3	3	12	3	3	4		
 3/16" Ø ELCO TAPCON 1-3/8" MIN. EMBED.	48	12	12	6	3	4	7	3	5	4	12	12	8	4	5	8	4	3	6	12	4	3	6	3	12	4	3	12	4	3				
	62	9	4	5	3	3	5	3	4	4	10	5	6	3	4	6	3	4	12	3	4	12	3	4	12	3	4	12	3	4	5			
	72	8	4	3	3	4	3	4	3	3	9	3	5	3	5	3	4	3	12	3	4	12	3	4	12	3	4	12	3	4	5			
	92	6	3	3	3	3	3	3	3	3	7	4	3	3	4	3	4	3	12	3	4	12	3	4	12	3	4	12	3	4	5			
	200	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4		
 1/4-20 ITW EPCON EPOXY ANCHOR W/ S.S. MACHINE SCREW W/ 2" MIN. EMBED.	48	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
	62	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
	72	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12			
	92	12	6	12	8	10	12	12	6	12	8	10	12	12	6	12	8	10	12	12	6	12	8	10	12	12	6	12	8	10	12			
	200	12	6	4	4	12	12	6	4	4	12	12	6	4	4	12	12	6	4	4	12	12	6	4	4	12	12	6	4	4				

ANCHOR SCHEDULE

FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

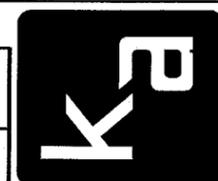
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX.	3/4" EDGE DISTANCE														
			5'-0" MAX. SPAN					8'-5" MAX. SPAN					11'-4" MAX. SPAN				
			CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE				
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
WOOD FRAME	 1/4" Ø WOOD LAG SCREW W/ 1-3/4" PENETRATION (SHEAR PARALLEL TO GRAIN)	48	12	12	12	12	12	12	9	9	10	12	12	5	7	7	9
		62	12	12	12	12	12	12	5	7	8	9	12	3	5	6	7
		72	12	12	10	11	12	12	4	6	6	8	12	4	5	6	
		92	12	7	8	9	10	12	3	4	5	6	12	4	4	5	
		200	12	4	4	5	12	4	4	5	12	4	4	5			
	 1/4" Ø WOOD LAG SCREW W/ 1-3/4" PENETRATION (SHEAR PERPENDICULAR TO GRAIN)	48	12	12	12	12	12	12	9	7	10	12	12	5	5	7	9
		62	12	12	9	12	12	12	5	5	8	9	12	3	4	6	7
		72	12	12	8	11	12	12	4	5	6	8	12	3	5	6	
		92	12	7	6	9	10	12	3	3	5	6	12	3	4	5	
		200	12	3	4	5	12	3	4	5	12	3	4	5			

ANCHOR NOTES:

- SPANS & LOADS SHOWN HERE ARE FOR ANCHOR SPACING ONLY. ALLOWABLE SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, PAGE 5.
- ENTER TABLE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE.
- CHOOSE DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON BUILDING AND CHOOSE SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
- REFERENCE SPACING FROM APPROPRIATE CONNECTION TYPE. SEE CONNECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
- WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. WOOD SHALL BE SOUTHERN PINE G = 0.55 OR BETTER DENSITY.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS WITH MIN. EMBEDMENT INDICATED ABOVE.
- 1/4-20 TRUSS HEAD BOLTS MAY BE USED IN LIEU OF 1/4-20 SIDEWALK BOLTS.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK, OR WOOD FRAMING. WHERE EXISTING STRUCTURE IS SHOWN AS CONCRETE, IT IS FOR PRESENTATION ONLY. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.

* REQUIRED FOR DIRECT MOUNT @ 6" OR 12" SPACING ONLY. SPACING NOT TO EXCEED VALUE SPECIFIED IN ANCHOR SCHEDULE.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 04/12/01
 BY *Heather A. M...*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0124.15



KNEZEVICH & ASSOCIATES, INC.
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 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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0.063" ALUMINUM STORM PANEL
ATLANTIC SHUTTERS, inc.
 15421 West Dixie Highway Bay 23
 North Miami Beach, Florida 33162
 ph: (305) 945-7277 fax: (305) 945-1131

NO.	DATE	BY	DESCRIPTION
00	01/18/01	VJK	PREV. DRAWING NO. 99-036

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No: PE 0010983

JAN 22 2001
 Date: 01/18/01
 Scale: AS NOTED
 Design by: VJK
 Checked by: VJK
 Drawing no: 01-210
 Sheet 7 of 7