



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

**All Broward Hurricane Panel Co.
450 West McNab Road
Ft. Lauderdale ,FL 33309**

Your application for Notice of Acceptance (NOA) of:
"STANDARD" Aluminum Accordion 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.: 01-1002.04
EXPIRES: 01/11/2007

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: 11/29/2001

All Broward Hurricane Panel, Inc.

ACCEPTANCE No. : 01-1002.04

APPROVED : 11/29/2001

EXPIRES : 01/11/2007

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 98-0709.07, which was issued on December 10, 1998. This approves an extruded aluminum accordion type 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 extruded aluminum accordion type shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 98-126, titled "Standard Accordion Shutter", prepared by Knezevich & Associates, Inc., dated June 12, 1998, revision #2 dated November 5, 1998, sheets 1 through 6 of 6, 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 extruded aluminum accordion type shutter and its components shall be installed in strict compliance with the approved drawings.

5. LABELING

Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved".

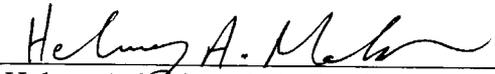
6. BUILDING PERMIT REQUIREMENTS

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

All Broward Hurricane Panel, Inc.

ACCEPTANCE No. : 01-1002.04

APPROVED : 11/29/2001

EXPIRES : 01/11/2007

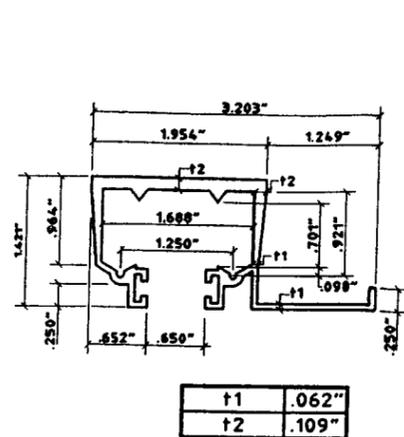
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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.

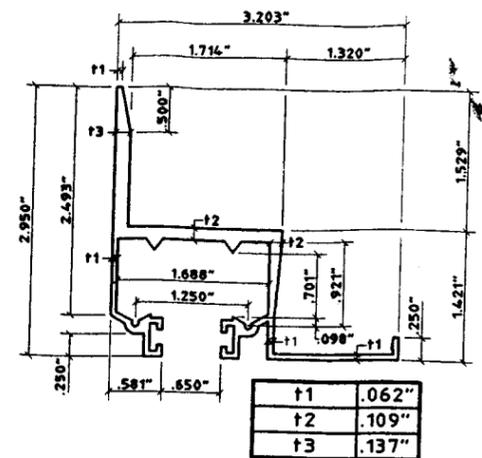
END OF THIS ACCEPTANCE



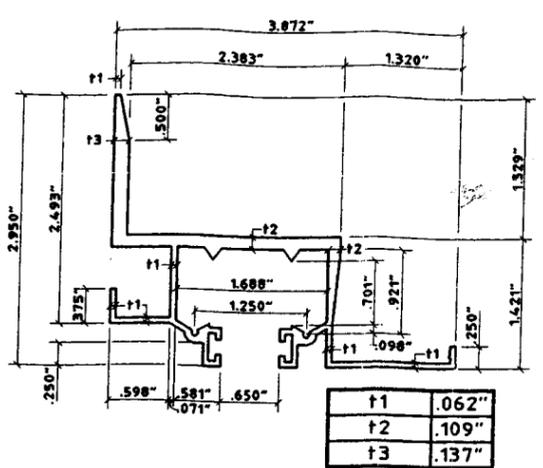
Helmy A. Makar, P.E.- Product Control Examiner
Product Control Division



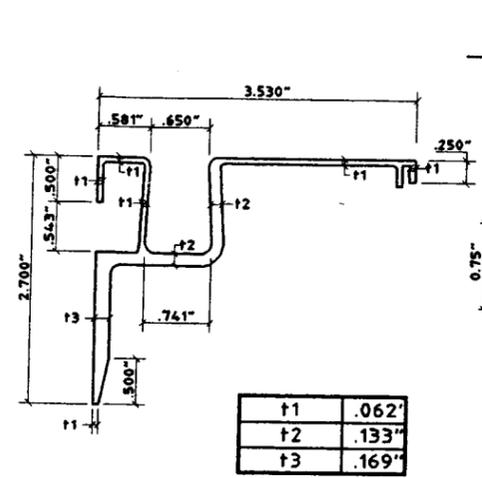
① **HEADER-CLG. MOUNTED**
SCALE: HALF SIZE



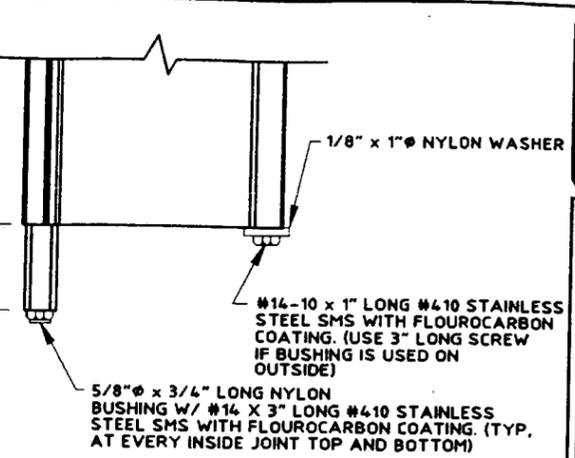
② **HEADER-WALL MOUNTED**
SCALE: HALF SIZE
* HEADER MAY BE INVERTED AND USED AT BOTTOM AS A SUBSTITUTE FOR PIECE ④



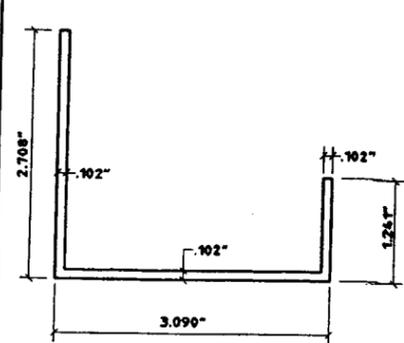
③ **ALT. HEADER-WALL MOUNTED**
SCALE: HALF SIZE
* HEADER MAY BE USED AS AN ALT. PIECE ② TYPICAL TOP OR BOTTOM.



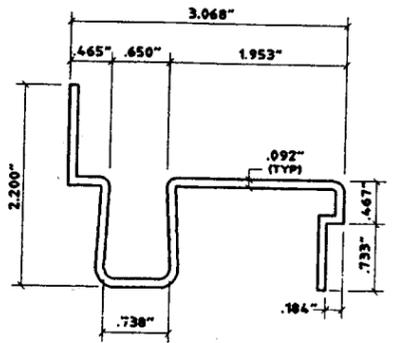
④ **SILL-WALL MOUNTED**
SCALE: HALF SIZE



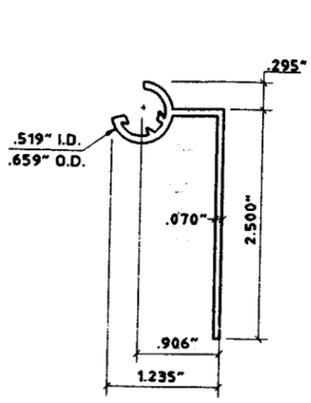
⑤ **BUSHING ASSEMBLY**
SCALE: HALF SIZE



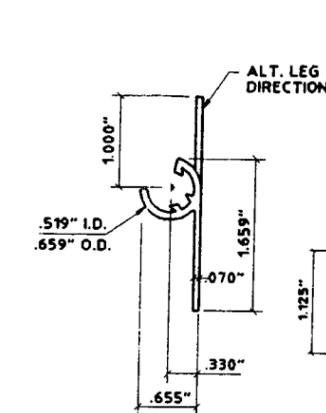
⑥ **ADJ. SILL-BOT.**
SCALE: HALF SIZE



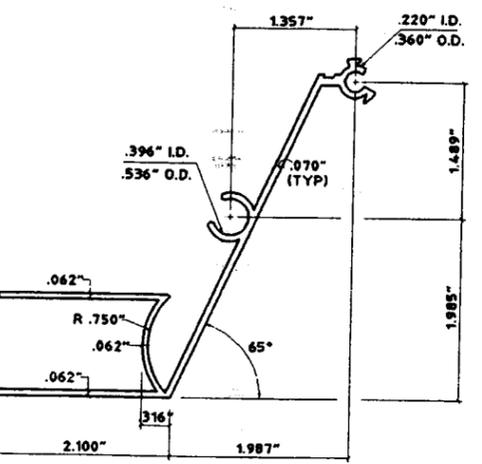
⑦ **ADJ. SILL-TOP**
SCALE: HALF SIZE



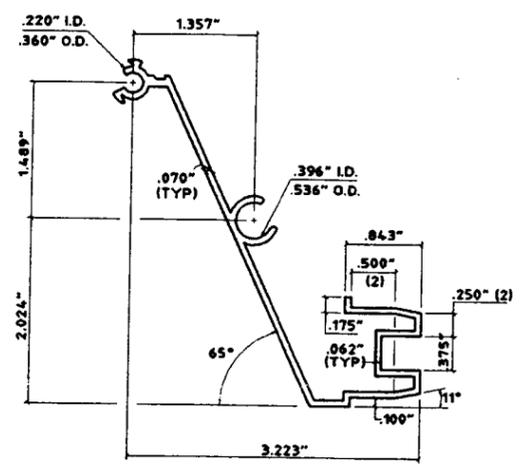
⑧ **90° END SLAT**
SCALE: HALF SIZE
6063-T5 ALLOY



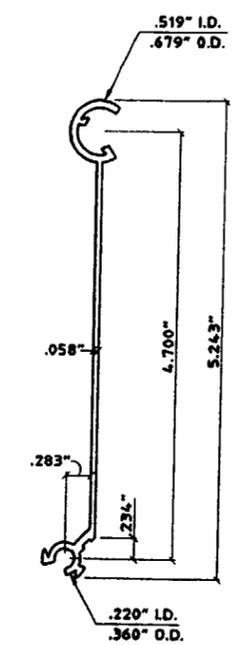
⑨ **FLAT END SLAT**
SCALE: HALF SIZE
6063-T5 ALLOY



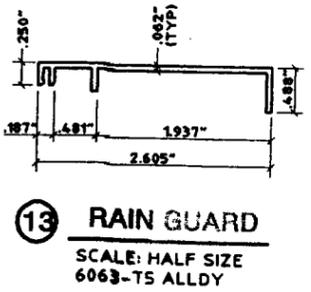
⑩ **FEMALE LOCK-SLAT**
SCALE: HALF SIZE
6005-T5 ALLOY



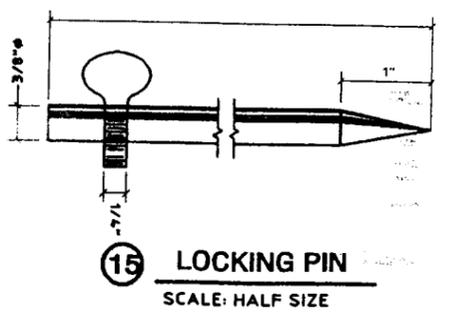
⑪ **MALE LOCK SLAT**
SCALE: HALF SIZE
6005-T5 ALLOY



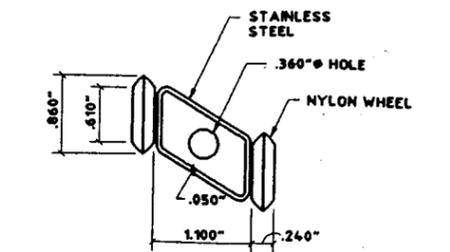
⑫ **TYP. SLAT**
SCALE: HALF SIZE
6005-T5 ALLOY



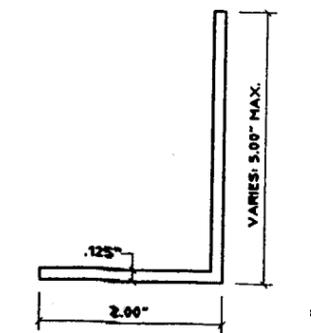
⑬ **RAIN GUARD**
SCALE: HALF SIZE
6063-T5 ALLOY



⑮ **LOCKING PIN**
SCALE: HALF SIZE



⑯ **ROLLER ASSEMBLY**
SCALE: HALF SIZE
* TYPICAL AT EVERY OTHER INSIDE JOINT AT TOP



⑭ **ANGLE**
SCALE: HALF SIZE

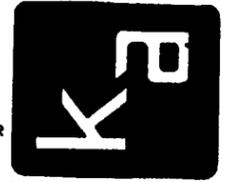
GENERAL NOTES:

- THIS ACCORDION 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 ASCE 7-88 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES" TABLES SHALL BE REFERENCED AT APPROPRIATE DESIGN LOADS.
- ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AT THE BOTTOM END OF THE LOCKING SLAT AS FOLLOWS:
B H P C O
FT. LAUDERDALE, FL.
DADE COUNTY PRODUCT APPRD.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL W/ A MIN. TENSILE STRENGTH OF 60 KSI. POP RIVETS SHALL BE 3/16" 5052 ALUM. ALLOY
- ALL SHUTTERS SHALL HAVE A LOCKING MECHANISM AT CENTER OR SIDE CLOSURE.
- THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE IN CONFORMANCE W/ DADE COUNTY PROTOCOLS PA 201, 202, AND 203.
- DESIGN IS BASED ON CTC TEST REPORT #95-012 AND #98-015.
- TOP & BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
- FLOOR TRACKS MAY BE REMOVABLE AT NON-STACKING LOCATIONS. USE REMOVABLE ANCHORS SUCH AS CALK-IN OR BRASS BUSHING.

PRODUCT RENEWED

ACCEPTANCE No. 01-1002-04
EXPIRATION DATE: 01/11/2007
By *Helmut A. Mahr*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: December 10, 1998
BY *Helmut A. Mahr*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-070907

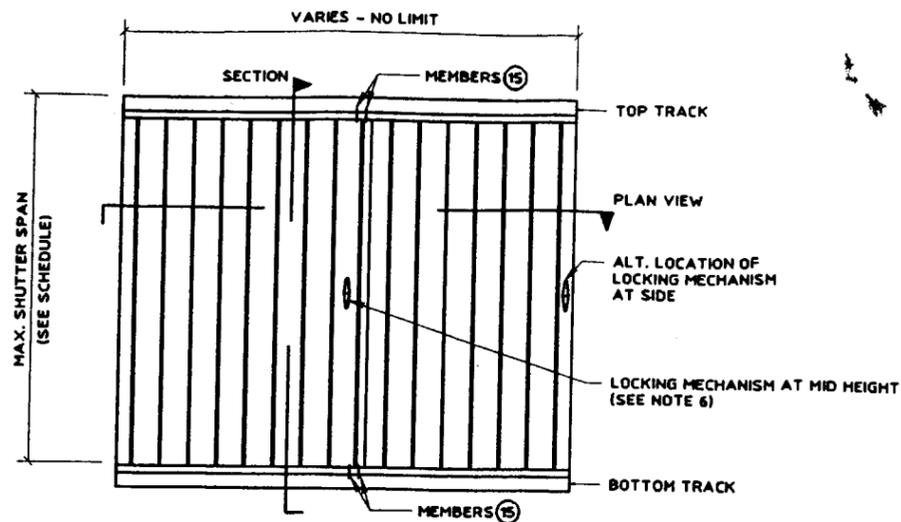


KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS - PRODUCT TESTING
641 MOKENA DRIVE-MIAMI SPRINGS, FLORIDA 33166
MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500
FAX: (305) 883-9572
COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

STANDARD ACCORDION SHUTTER
ALL BROWARD HURRICANE PANEL, CO.
480 WEST INGLIS ROAD
FORT LAUDERDALE, FL 33309
(866) 974-5500

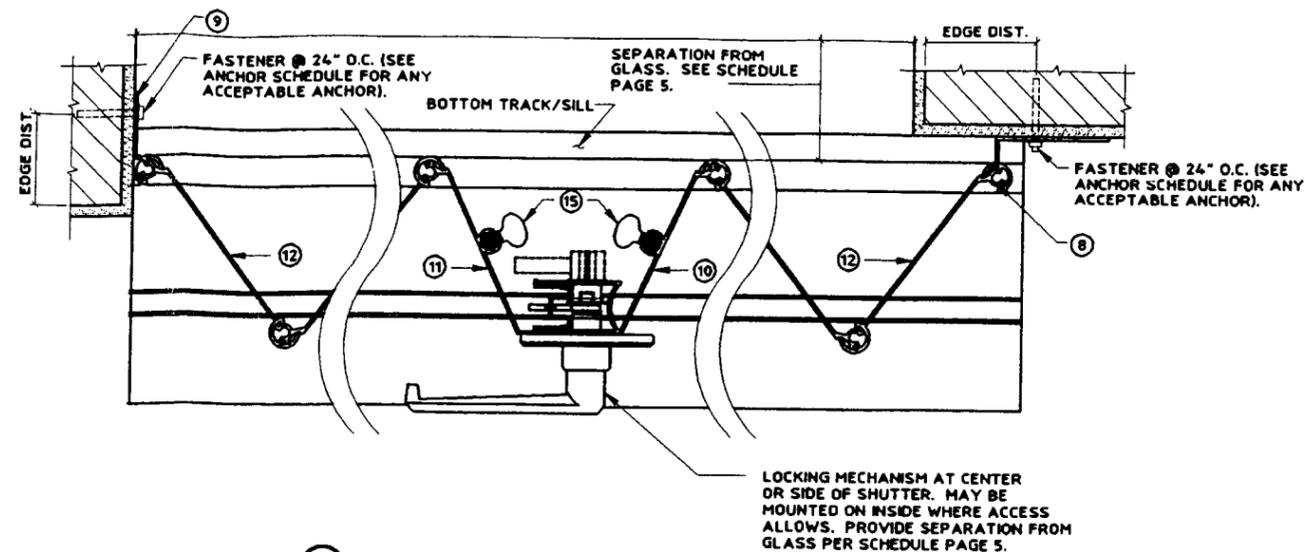
Revisions	date	by	description
1	06/12/98	JR	PREV. I.A. DWG. NO. 98-207
2	11/05/98	JW	REVISED TABLE 2

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0610983
NOV 9 1998
date 06/12/98
scale AS NOTED
design by V.K.
checked by V.K.
drawing no. 98-126
sheet 1 of 6



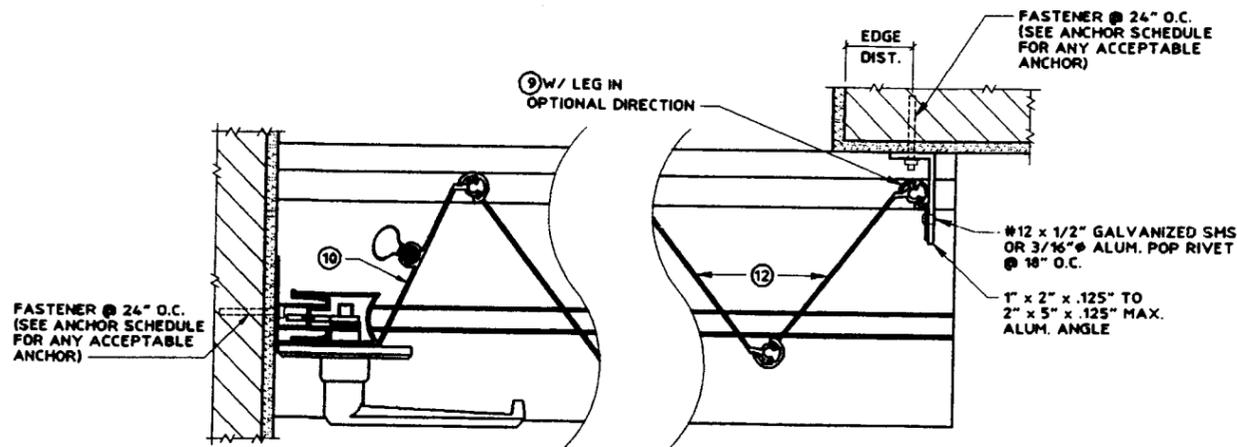
(A) TYPICAL ELEVATION

N.T.S.



(B) TYPICAL PLAN VIEW

SCALE: 3" = 1'-0"

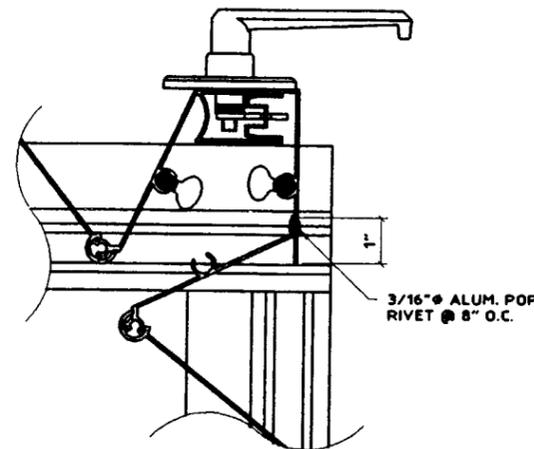


(C) SIDE CLOSURE DETAIL

SCALE: 3" = 1'-0"

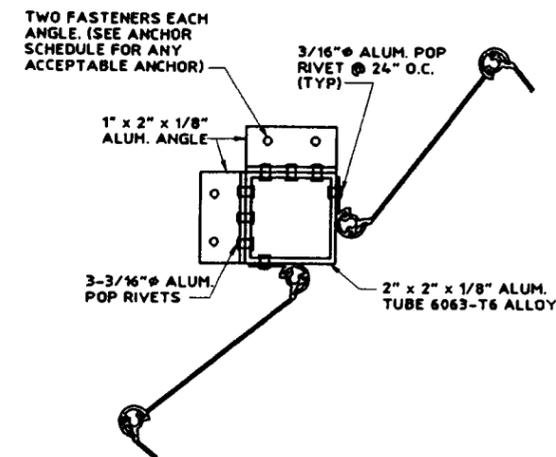
(D) ALT. CLOSURE DETAIL

SCALE: 3" = 1'-0"



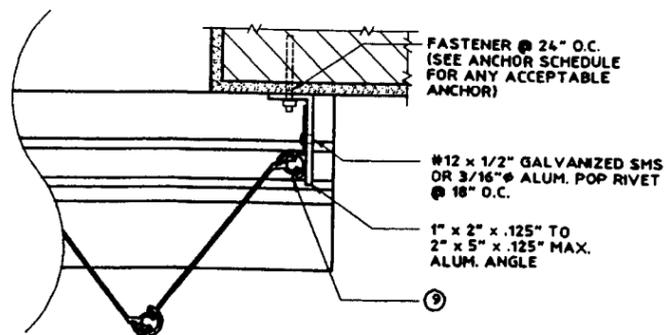
(E) INSIDE CORNER CLOSURE DETAIL

SCALE: 3" = 1'-0"



(F) CORNER CLOSURE DETAIL

SCALE: 3" = 1'-0"



(G) ALT. CLOSURE DETAIL

SCALE: 3" = 1'-0"

PRODUCT RENEWED
 ACCEPTANCE No. 01-1002-04
 EXPIRATION DAT. 01/11/2007
 By Helmy A. Makar
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE December 10 1998
 BY Helmy A. Makar
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0709-07



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 641 MOKENA DRIVE • MIAMI SPRINGS, FLORIDA 33166
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500
 FAX: (305) 883-9572
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STANDARD ACCORDION SHUTTER

ALL BROWARD HURRICANE PANEL CO.
 480 WEST MAGNAB ROAD
 FORT LAUDERDALE, FL 33309
 (954) 874-5300

no.	date	description
1	06/12/98	PKY, KA DWG. No. 98-207
2	11/05/98	REVISED TABLE 2

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER

FL License No:
 PE 010983

NOV - 9 1998

date 06/12/98

SCALE AS NOTED drawn by MC

design by checked by VJK

drawing no.
 98-126

sheet 2 of 6

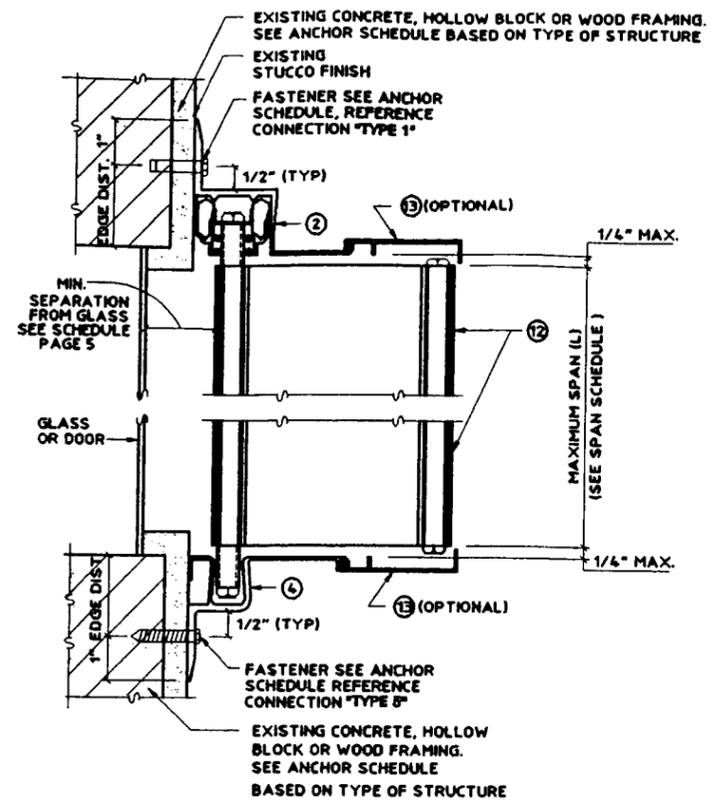


KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS - PRODUCT TESTING
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 FAX: (305) 883-9572
 COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

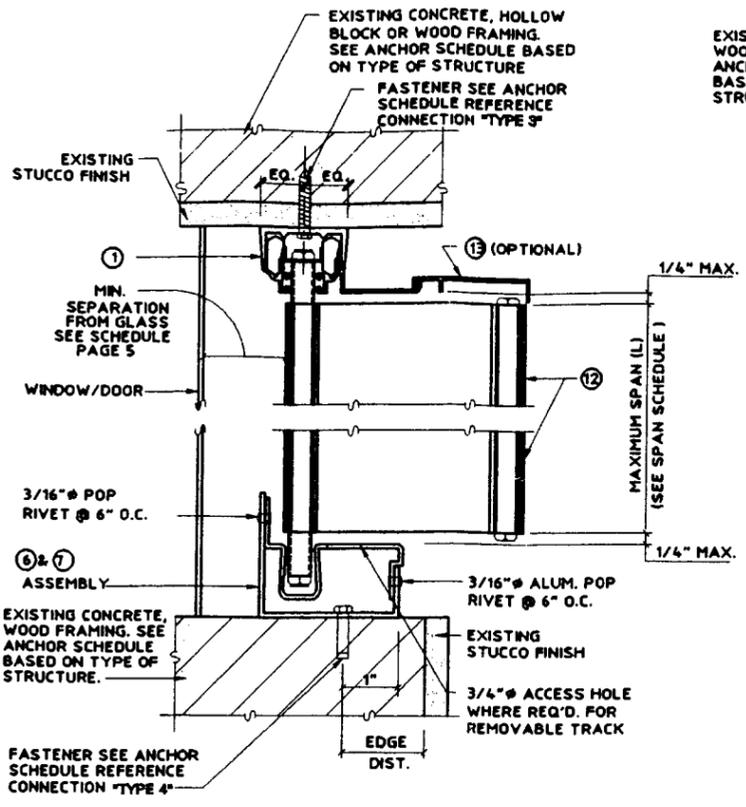
STANDARD ACCORDION SHUTTER
ALL BROWARD HURRICANE PANEL, CO.
 480 WEST MARLUS ROAD
 FORT LAUDERDALE, FL 33309
 (954) 874-3500

no.	date	by	description
1	04/12/98 JP		PREV. K.A. DWG. NO. 98-207
2	11/08/98 JW		REVISED TABLE 2

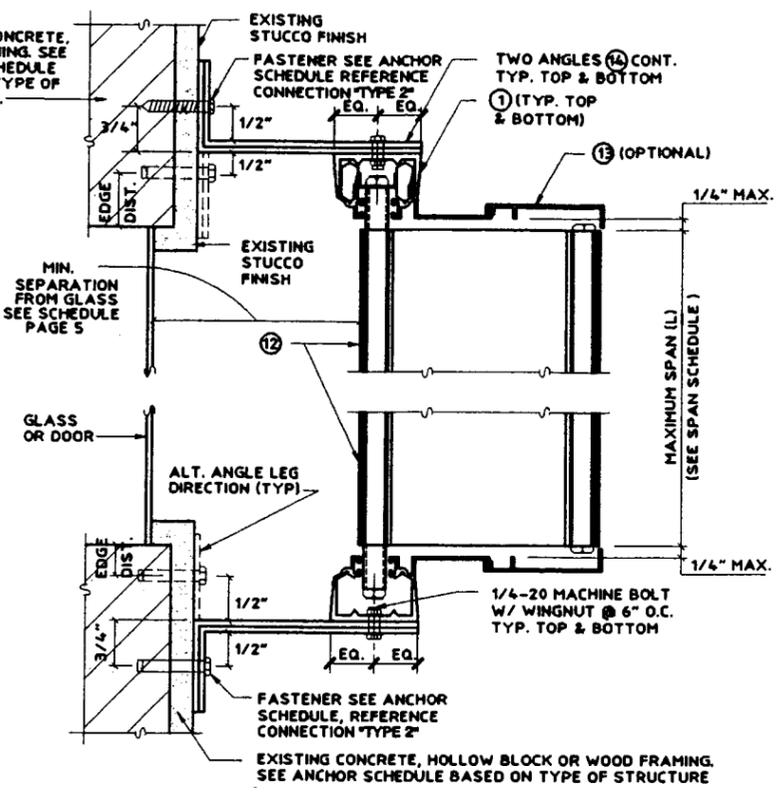
V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No:
 PE 0410983
 NOV - 9 1998
 date 06/12/98
 scale AS NOTED drawn by MC
 design by JP checked by VJK
 drawing no.
98-126
 sheet 3 of 6



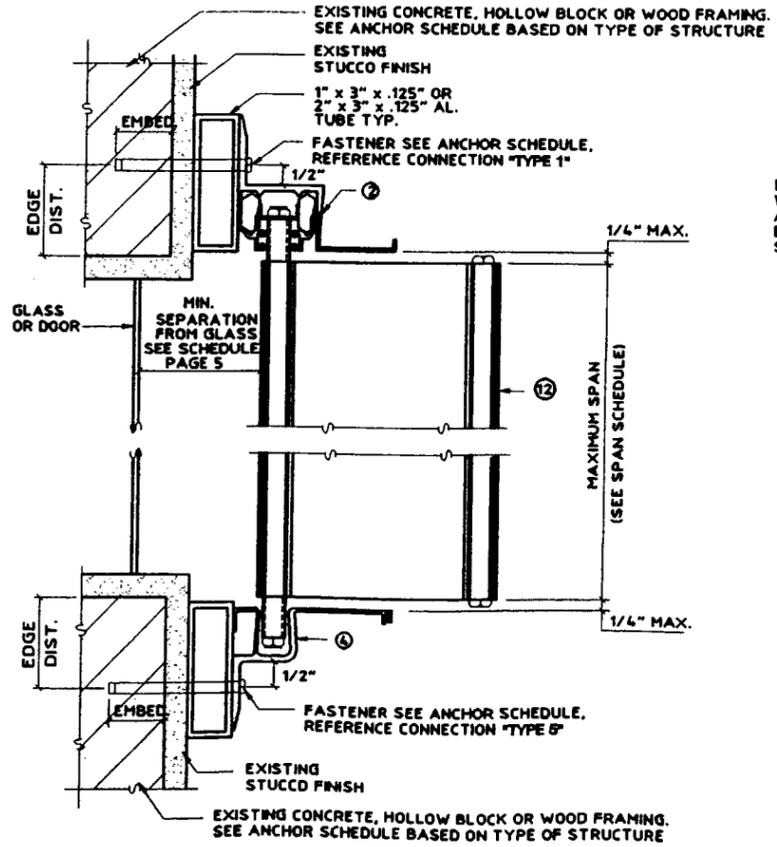
A WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



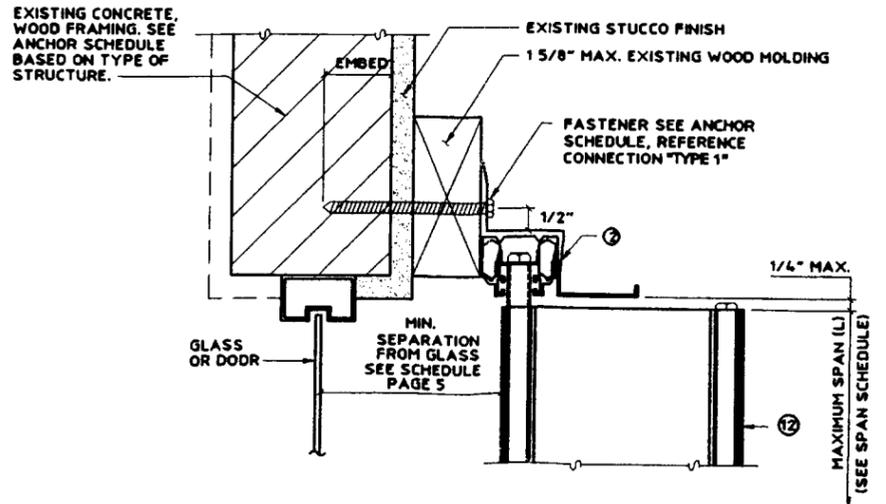
B CEILING/INSIDE MOUNT SECTION
 SCALE: 3" = 1'-0"



C BUILD-OUT MOUNT SECTION
 SCALE: 3" = 1'-0"



D WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



E WALL MOUNT SECTION
 SCALE: 3" = 1'-0"

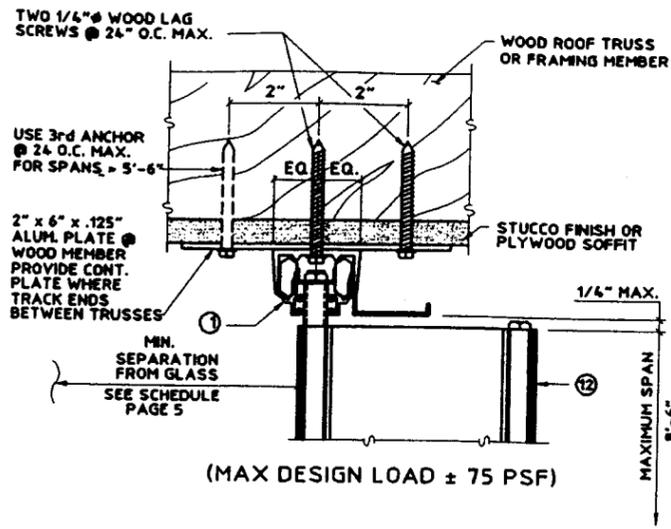
PRODUCT RENEWED

ACCEPTANCE No. 01-1002-04

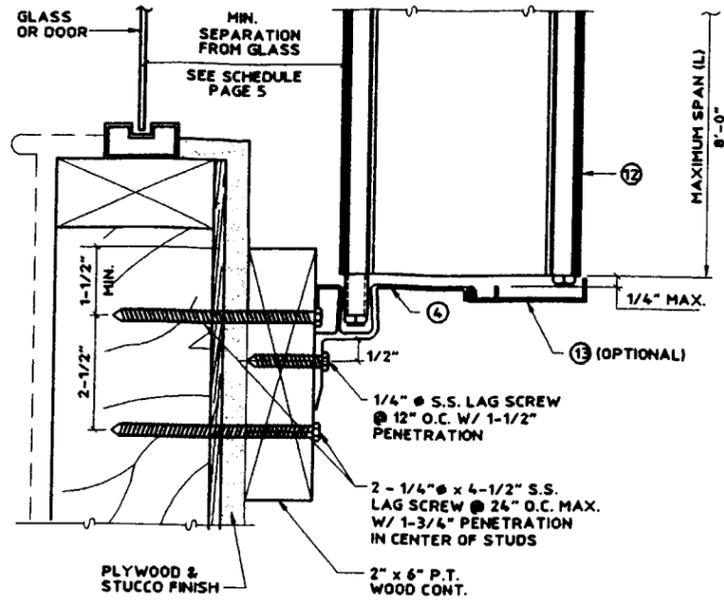
EXPIRATION DATE: 01/11/2007

By *Helmut A. Meker*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

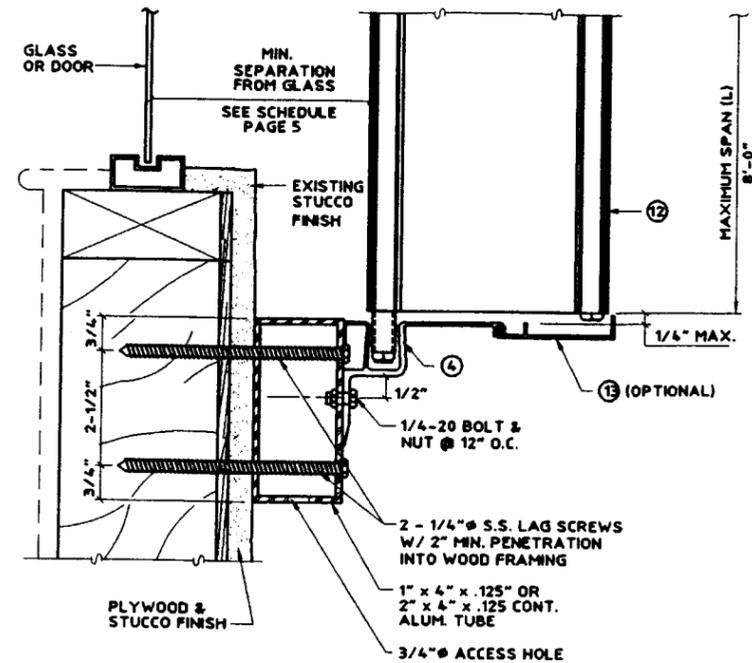
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE *December 10, 1998*
 BY *Helmut A. Meker*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *98-0709-07*



F SOFFIT CONNECTION DETAIL
SCALE: 3" = 1'-0"



G ALT. WALL MOUNT SECTION
SCALE: 3" = 1'-0"



H ALT. WALL MOUNT SECTION
SCALE: 3" = 1'-0"

PRODUCT RENEWED

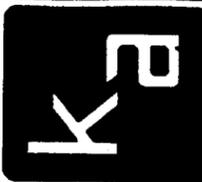
ACCEPTANCE No. 01-1002-04

EXPIRATION DATE 01/11/2007

By Helmut A. Mehn

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE December 10 1998
BY Helmut A. Mehn
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-0709-07



KNEZEVICH & ASSOCIATES, INC.
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STANDARD ACCORDION SHUTTER
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480 WEST MANAR ROAD
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(800) 974-5200

revisions	no.	date	by	description
	1	04/12/98	JR	PREV. K.A. DIV. No. 98-307
	2	11/05/98	JM	REVISED TABLE 2

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0070883
NOV - 9 1998
date 06/12/98
scale AS NOTED drawn by MC
design by checked by VJK
drawing no. 98-126
sheet 4 of 6

TABLE 1 DESIGN LOAD W (PSF)	MAXIMUM ALLOWABLE SPAN SCHEDULE	
	ALL MOUNTING CONDITIONS INSTALLED LESS THAN OR GREATER THAN 30' ABOVE GRADE	TRAP MOUNT CONDITIONS INSTALLED GREATER THAN 30' ABOVE GRADE
	A L max. (FT - IN)	B L max. (FT - IN)
35.0	15 - 6	15 - 6
42.0	15 - 6	14 - 10
45.0	15 - 2	14 - 7
50.0	14 - 10	14 - 3
55.0	14 - 5	13 - 10
60.0	14 - 2	13 - 7
62.0	14 - 0	13 - 6
65.0	13 - 10	13 - 4
70.0	13 - 7	13 - 1
72.0	13 - 6	13 - 0
75.0	13 - 4	12 - 10
80.0	13 - 2	12 - 8
85.0	12 - 11	12 - 5
90.0	12 - 8	12 - 3
100.0	12 - 0	11 - 11
110.0	11 - 6	11 - 8
120.0	10 - 11	11 - 5
130.0	10 - 1	11 - 2
140.0	9 - 4	11 - 0
150.0	8 - 9	10 - 9
160.0	8 - 2	10 - 2
170.0	7 - 8	9 - 6
180.0	7 - 3	9 - 0
190.0	6 - 10	8 - 6
200.0	6 - 6	8 - 1
225.0	5 - 10	7 - 2
250.0	5 - 3	6 - 6
275.0	4 - 9	5 - 11
300.0	4 - 4	5 - 5

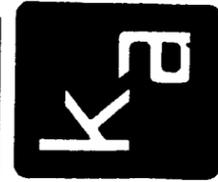
TABLE 2 POSITIVE DESIGN LOAD (W) (PSF)	MINIMUM SEPARATION FROM GLASS (IN)		
	ACTUAL SHUTTER SPAN (FT. - IN)	MIN. SEPARATION FROM GLASS FOR INSTALLATIONS ≤30' ABOVE GRADE (INCHES)	MIN. SEPARATION FROM GLASS FOR INSTALLATIONS >30' ABOVE GRADE (INCHES)
30.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/8
	11'-2"	2-3/8	1-1/2
	15'-6"	2-1/2	2-1/2
40.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/4
	11'-2"	2-3/8	1-5/8
	15'-6"	3	3
50.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/4
	11'-2"	2-3/8	1-3/4
	14'-10"	3	3
60.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/4
	11'-2"	2-3/8	1-7/8
	14'-2"	3	3
70.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/4
	11'-2"	2-3/8	2
	13'-7"	3	3
80.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-3/8
	11'-2"	2-3/8	2-1/8
	13'-2"	3	3
90.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-3/8
	11'-2"	2-3/8	2-1/4
	12'-8"	3	3

TABLE 2 POSITIVE DESIGN LOAD (W) (PSF)	MINIMUM SEPARATION FROM GLASS (IN)		
	ACTUAL SHUTTER SPAN (FT. - IN)	MIN. SEPARATION FROM GLASS FOR INSTALLATIONS ≤30' ABOVE GRADE (INCHES)	MIN. SEPARATION FROM GLASS FOR INSTALLATIONS >30' ABOVE GRADE (INCHES)
100.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-3/8
	11'-2"	2-3/8	2-3/8
	12'-0"	2-3/4	2-3/4
110.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-3/8
	11'-2"	2-1/2	2-1/2
	11'-8"	3	3
120.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/2
	11'-2"	2-1/2	2-5/8
	11'-5"	3	3
130.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/2
	11'-2"	3	3
140.0	5'-0"	2-3/8	1-1/8
	8'-0"	2-3/8	1-1/2
	11'-0"	3	3
150.0	8'-0"	2-3/8	1-5/8
	10'-9"	3	3
160.0	10'-2"	2-3/4	2-3/4
170.0	9'-6"	2-1/2	2-1/2
180.0	9'-0"	2-3/8	2-3/8
190.0	8'-6"	2-3/8	2-1/8
200.0	8'-1"	2-3/8	2-1/8
225.0	7'-2"	2-3/8	1-7/8
275.0	5'-11"	2-3/8	1-5/8
300.0	5'-5"	2-3/8	1-5/8

- NOTES:**
- ENTER TABLE 1 WITH THE HIGHER OF THE POSITIVE OR NEGATIVE DESIGN LOADS TO DETERMINE MAXIMUM ALLOWABLE SPAN.
 - ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MINIMUM SEPARATION FROM GLASS.
 - FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

PRODUCT RENEWED
 ACCEPTANCE No. 01-1002-04
 EXPIRATION DATE: 01/11/2007
 Helmut A. Mahr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE: December 10, 1998
 BY: Helmut A. Mahr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0709-07

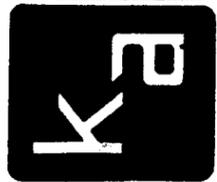


KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 641 MOKENA DRIVE • MIAMI SPRINGS, FLORIDA 33166
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500
 FAX: (305) 883-9572
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STANDARD ACCORDION SHUTTER
 ALL BROWARD HURRICANE PANEL, CO.
 480 WEST MANAR ROAD
 FORT LAUDERDALE, FL 33309
 (954) 874-5300

no.	date	description
1	06/12/98	PREV. KA DWG. No. 98-307
2	11/09/98	REVISED TABLE 2

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No:
 PE 0010983
 NOV - 9 1998
 date 06/12/98
 AS NOTED drawn by MC
 design by JP checked by VJK
 drawing no.
98-126
 sheet 5 of 6



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STANDARD ACCORDION SHUTTER
 ALL BROWARD HURRICANE PANEL, CO.
 480 WEST MANAB ROAD
 FORT LAUDERDALE, FL 33308
 (866) 974-3300

no	date	description
1	06/12/98	PREV. KA DIVE. NO. 98-207
2	11/09/98	REVISED TABLE 2

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No: PB 907983
 NOV - 9 1998
 date 06/12/98
 scale AS NOTED drawn by MC
 design by JP checked by VJK
 drawing no. 98-126
 sheet 6 of 6

ANCHOR SCHEDULE																																
FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																																
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	2" EDGE DISTANCE															3" EDGE DISTANCE														
			SPANS UP TO 5'-6" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 15'-6" (SEE NOTE 1)					SPANS UP TO 5'-6" (SEE NOTE 1)			SPANS UP TO 8'-0" (SEE NOTE 1)			SPANS UP TO 15'-6" (SEE NOTE 1)								
			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
CONCRETE		62	6	6	6	6	6	6	6	6	6	6	6	6	4	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
		72	6	6	6	6	6	6	6	6	6	6	5	6	3	3	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6
		105	6	6	6	6	6	6	6	5	4	6	4	6	3	6	6	6	6	6	6	6	6	6	6	6	5	6	5	4	6	
		210	5	6	3	3	6	4	6	3	6	4	6	3	6	6	6	6	5	6	5	6	5	4	6	5	6	5	4	6		
		300	4	6	3	6	6	4	6	3	6	4	6	3	6	6	5	6	5	4	6	5	6	5	4	6	5	6	5	4	6	
		62.0	6	6	6	6	6	6	6	6	6	6	6	6	5	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	6
		72.0	6	6	6	6	6	6	6	6	6	6	5	6	4	3	6	6	6	6	6	6	6	6	6	6	6	6	6	5	4	6
		105.0	6	6	6	6	6	6	6	5	4	6	3	6	3	3	6	6	6	6	6	6	6	6	6	6	6	4	6	4	3	6
		210.0	5	6	4	3	6	3	6	3	3	6	3	6	3	3	6	6	6	5	4	6	4	6	4	3	6	4	6	4	3	6
		300.0	3	6	3	3	6	3	6	3	3	6	3	6	3	3	6	4	6	4	3	6	4	6	4	3	6	4	6	4	3	6
HOLLOW BLOCK		62.0	6	6	6	5	6	6	6	5	4	6	3	5	6	6	6	5	6	6	6	6	6	6	6	6	6	4	6	3	3	6
		72.0	6	6	6	5	6	6	6	4	3	6	5	6	6	6	6	6	6	6	6	6	6	6	6	5	6	3	6	3	6	
		105.0	6	6	4	3	6	6	6	6	6	6	4	6	6	6	6	6	6	6	5	6	6	6	4	3	6	5	6	5	6	
		210.0	4	6	3	6	6	4	6	6	6	6	4	6	6	6	6	6	6	6	6	6	5	6	5	6	6	5	6	5	6	
		300.0	4	6	3	6	6	4	6	6	6	6	4	6	6	6	6	5	6	6	6	6	5	6	5	6	6	5	6	5	6	
		62.0	6	6	6	5	6	6	6	5	4	6	4	6	3	6	6	6	6	6	6	6	6	6	6	6	5	6	3	3	6	
		72.0	6	6	5	4	6	6	6	5	4	6	3	6	6	6	6	6	6	6	5	6	6	6	6	5	6	3	6	3	6	
		105.0	6	6	3	3	6	6	6	3	6	6	5	6	6	6	6	6	6	4	3	6	6	6	4	3	6	5	6	5	6	
		210.0	3	6	3	3	6	5	6	6	6	6	5	6	6	6	6	5	6	4	3	6	5	6	5	6	6	5	6	5	6	
		300.0	3	6	3	3	6	5	6	6	6	6	5	6	6	6	6	5	6	3	6	6	5	6	5	6	6	5	6	5	6	

PRODUCT RENEWED
 ACCEPTANCE NO. 01-1002-04
 EXPIRATION DATE 01/11/2007
 By *Helmut A. Mahr*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

- ANCHOR NOTES:**
- SPANS & LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, SHEET 5.
 - ENTER TABLE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
 - EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE CONNECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
 - MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
 - WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
 - WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2"x4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
 - MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
 - DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
 - * 10. MULTIPLY FASTENER SPACING OBTAINED FROM THE TABLE BY THE FACTOR OF 0.61 IF THE 1/4" ITW TAPCON EMBEDMENT IN CONCRETE IS REDUCED TO 1-1/4" EMBEDMENT.

ANCHOR SCHEDULE																												
FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																												
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	3/4" EDGE DISTANCE																									
			SPANS UP TO 5'-6" (SEE NOTE 1)				SPANS UP TO 8'-0" (SEE NOTE 1)				SPANS UP TO 15'-6" (SEE NOTE 1)																	
			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	
WOOD		62.0	6	6	6	5	6	6	6	4	3	6	3	5	6	6	6	5	6	6	6	6	6	6	6	6	6	
		72.0	6	6	6	4	6	6	6	4	3	6	4	6	6	6	6	4	6	6	6	6	6	6	6	6	6	
		105.0	6	6	4	3	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	6	
		210.0	4	6	3	6	6	4	6	3	6	6	3	6	6	6	6	3	6	6	6	6	3	6	6	6	6	
		300.0	3	6	3	6	6	3	6	3	6	6	3	6	6	6	6	3	6	6	6	6	3	6	6	6	6	
		62.0	6	6	6	6	6	6	6	6	5	6	6	6	6	3	6	6	6	6	6	6	6	6	6	6	6	
		72.0	6	6	6	6	6	6	6	6	5	4	6	5	6	6	6	6	5	6	6	6	6	6	6	6	6	6
		105.0	6	6	5	4	6	6	6	6	3	3	6	3	6	6	6	6	3	6	6	6	6	6	6	6	6	6
		210.0	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	3	6	6	6	6	6	6	6	6	
		300.0	3	6	6	6	6	6	3	6	6	6	6	3	6	6	6	6	3	6	6	6	6	6	6	6	6	