



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:

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 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.: 00-0721.04
EXPIRES: 01/08/2004**

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: 10/12/2000

All Broward Hurricane Panel Company

ACCEPTANCE No. : 00-0721.04

APPROVED : OCT 12 2000

EXPIRES : 01/08/2004

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This **renews** the Notice of Acceptance, No. 98-0225.01, which was issued on April 30, 1998. 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. 96-538, titled "0.063" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., dated September 3, 1997, last revision #1 dated March 25, 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 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

All Broward Hurricane Panel Company

ACCEPTANCE No. : 00-0721.04

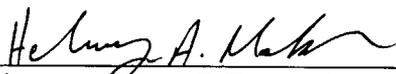
APPROVED : OCT 12 2000

EXPIRES : 01/08/2004

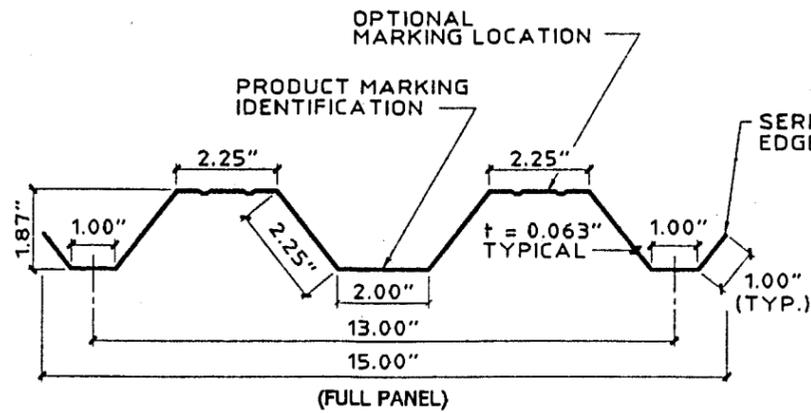
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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.

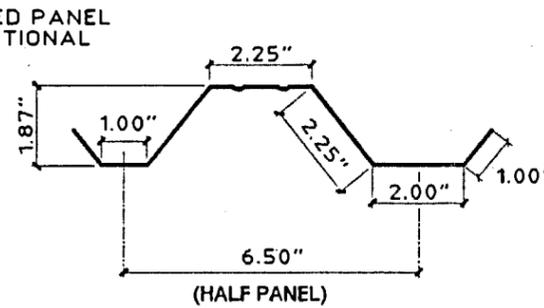
END OF THIS ACCEPTANCE



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

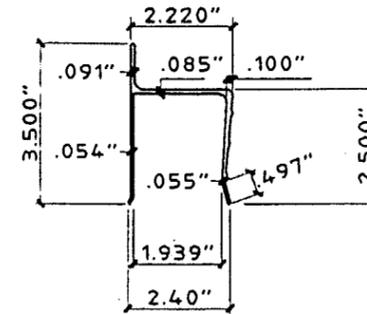


1 **STORM PANEL**
SCALE: 3" = 1'-0"

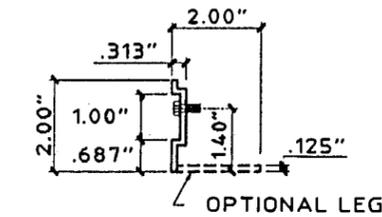
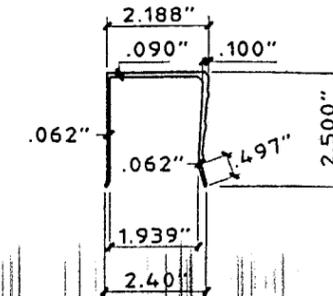


(HALF PANEL)
ONE HALF PANEL PER OPENING
MAY BE USED AS REQUIRED TO
COVER OPENING.

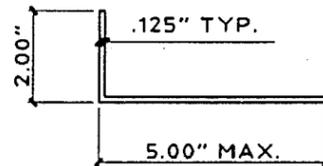
2 **"h" HEADER**
SCALE: 3" = 1'-0"



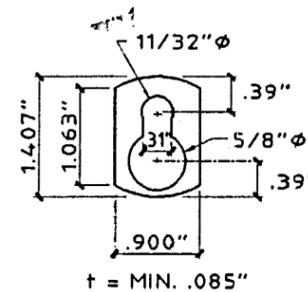
3 **"U" HEADER**
SCALE: 3" = 1'-0"



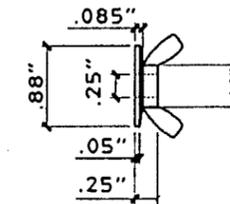
4 **"SEA" ANGLE**
SCALE: 3" = 1'-0"



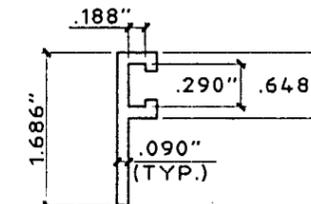
5 **ANGLE**
SCALE: 3" = 1'-0"



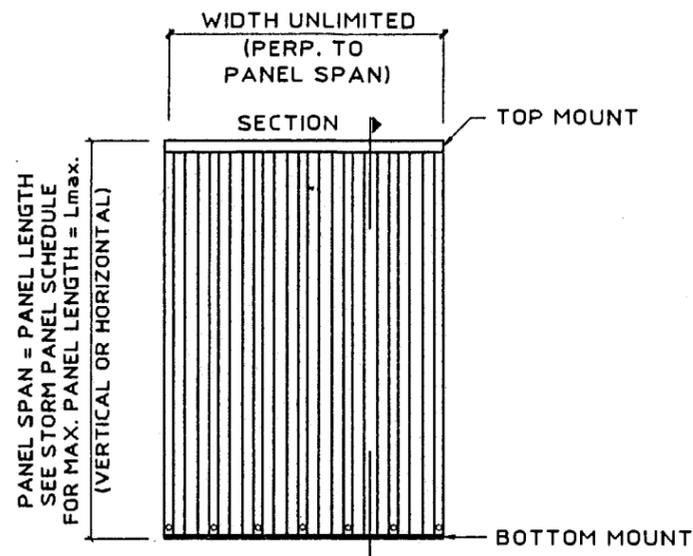
6 **"KEYHOLE" WASHER**
SCALE: 3" = 1'-0"
3003-H14 ALUMINUM ALLOY



7 **WINGNUT**
SCALE: 3" = 1'-0"
ZAMAC 3 ALLOY



8 **"F" TRACK**
SCALE: HALF SIZE



9 **TYPICAL ELEVATION**
FOR ALL INSTALLATIONS SEE TABLE 2,
PAGE 5 OF 6, FOR REQUIRED SEPARATION
FROM GLASS.

GENERAL NOTES:

- THIS STORM PANEL 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.
- STORM PANELS SHALL BE 5052-H32 ALUMINUM ALLOY, 0.063" THICK WITH A MIN. F_y (BEFORE ROLLING) OF 23 KSI. ALL EXTRUSIONS SHOWN 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:
B H P C O
FT. LAUDERDALE, FL
DADE COUNTY PROD. APPR'D.
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- TOP AND BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
- THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE LOADING IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202 AND 203.
- DESIGN IS BASED ON CONSTRUCTION TESTING CORPORATION (CTC) TEST REPORTS No. 96-047 AND 97-032.

PRODUCT RENEWED

ACCEPTANCE No. 00-0721.04

EXPIRATION DATE 01/08/2004

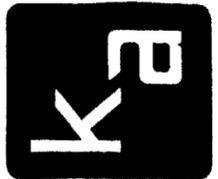
By Helmut A. Mark
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE

DATE APRIL 30 1998

BY Helmut A. Mark
PRODUCT CONTROL DIVISION

BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-0225.01



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.

0.063" ALUMINUM STORM PANEL
ALL BROWARD HURRICANE PANEL, CO.
460 WEST LEGNAB ROAD
FORT LAUDERDALE, FL 33309
(954) 974-3300

revisions	no.	date	description	COUNTY COMMENTS
	1	08/25/98	JWK	

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

Helmut A. Mark
MAR 27 1998
date 09/03/97

scale AS NOTED drawn by MC
design by JWK/JP checked by VJK

drawing no.
96-538

sheet 1 of 6



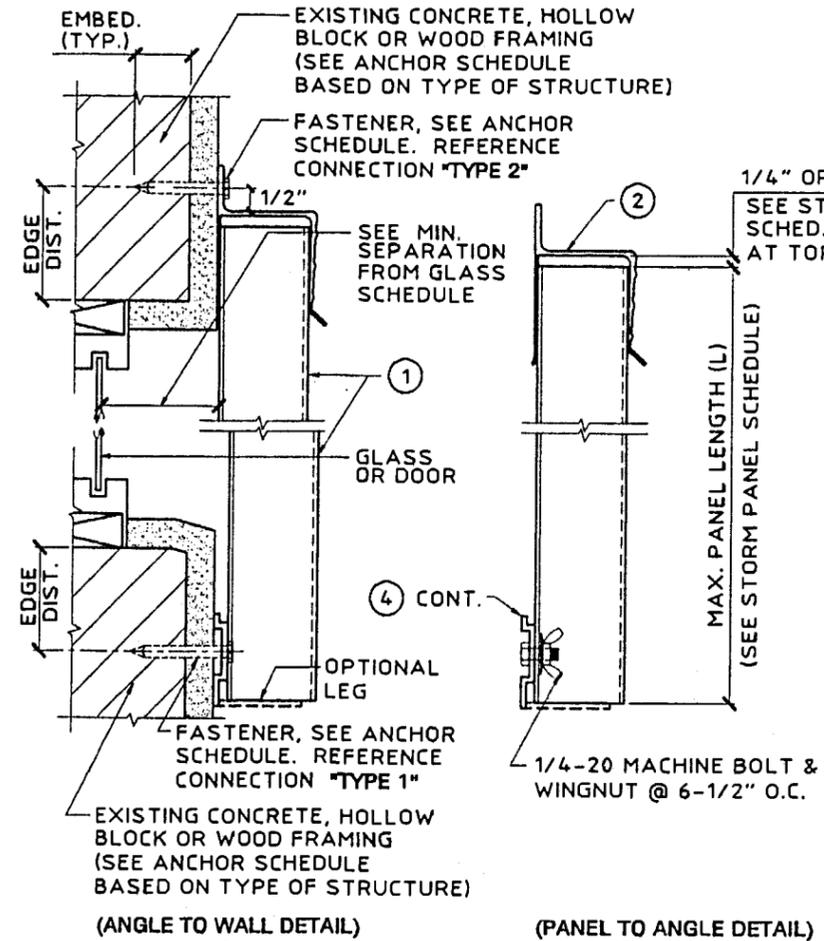
KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 641 MOKENA DRIVE • MIAMI SPRINGS, FLORIDA 33166
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500
 FAX: (305) 883-9572
 COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

0.063" ALUMINUM STORM PANEL
 ALL BROWARD HURRICANE PANEL, CO.
 460 WEST MAGNOLIA ROAD
 FORT LAUDERDALE, FL 33309
 (804) 974-3500

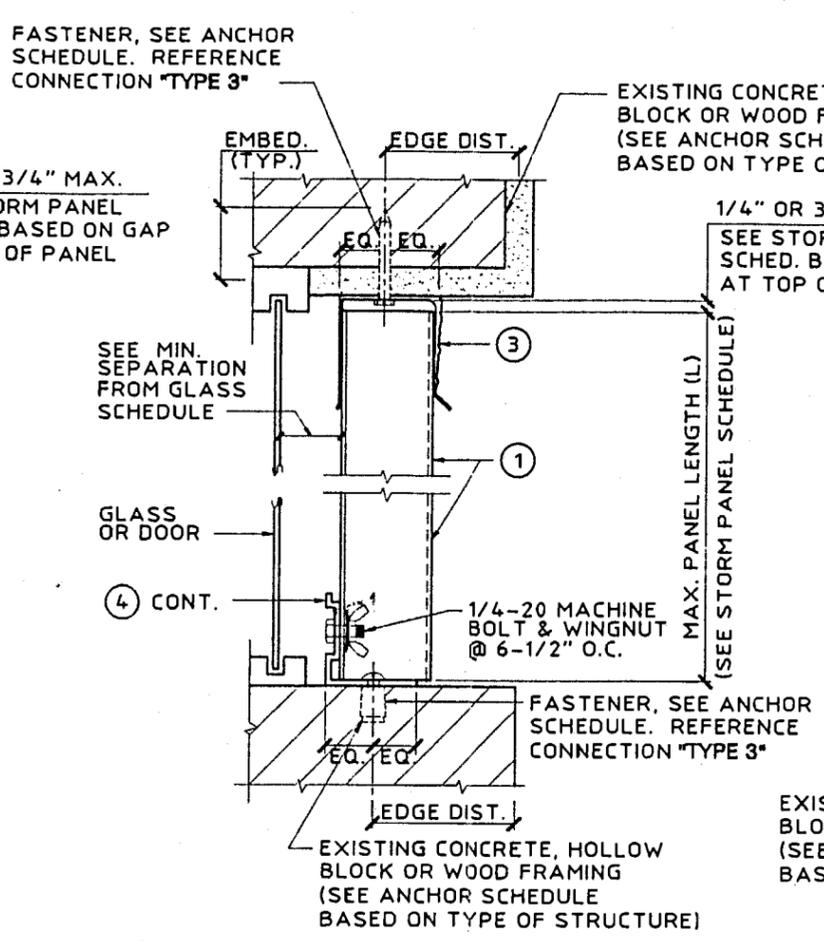
NO.	DATE	DESCRIPTION	COUNTY COMMENTS
1	03/25/98	JWK	

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No: PE 0016983

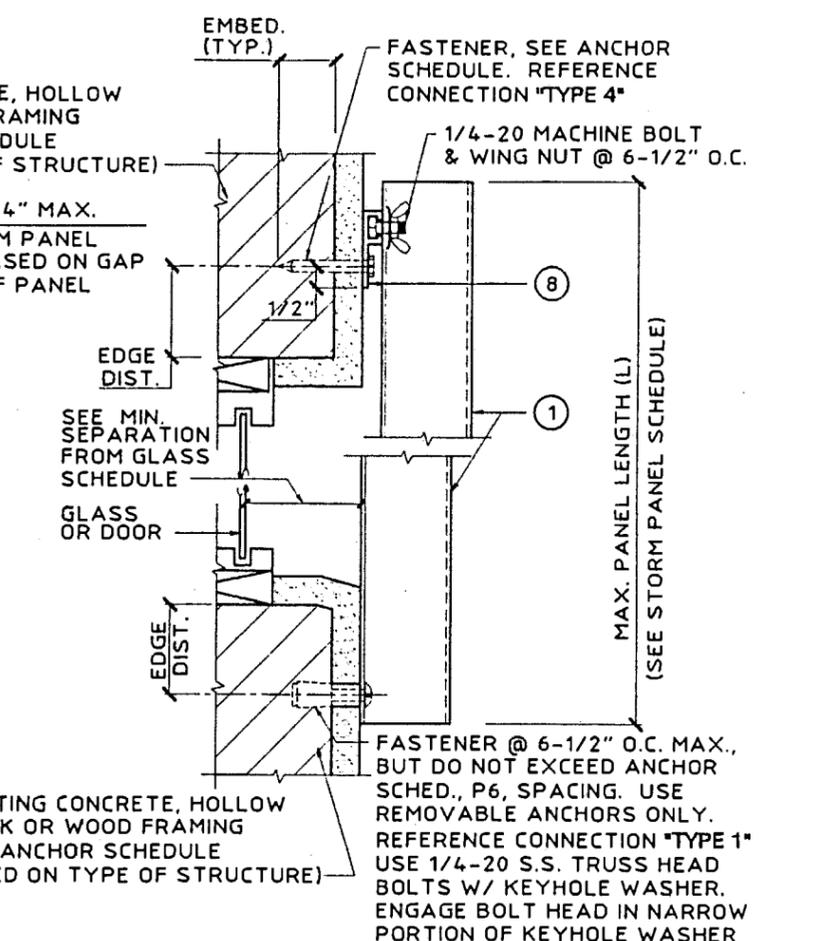
MAR 27 1998
 date 09/03/97
 AS NOTED drawn by MC
 design by JWK/JP checked by VJK
 drawing no. 96-538
 sheet 2 of 6



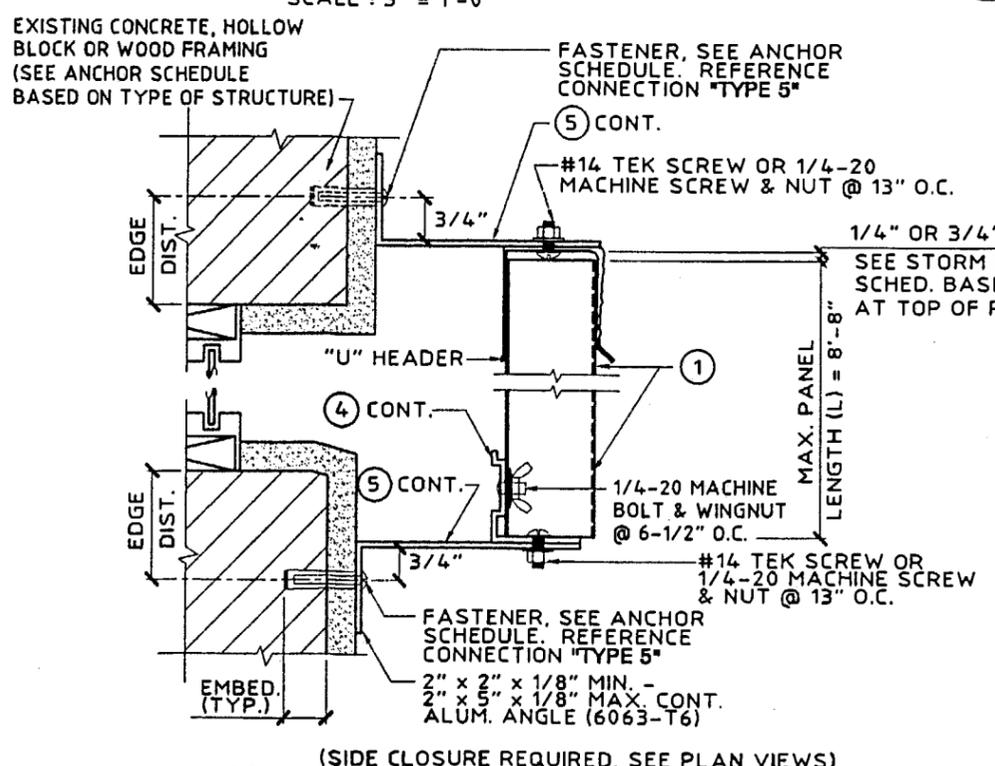
A WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



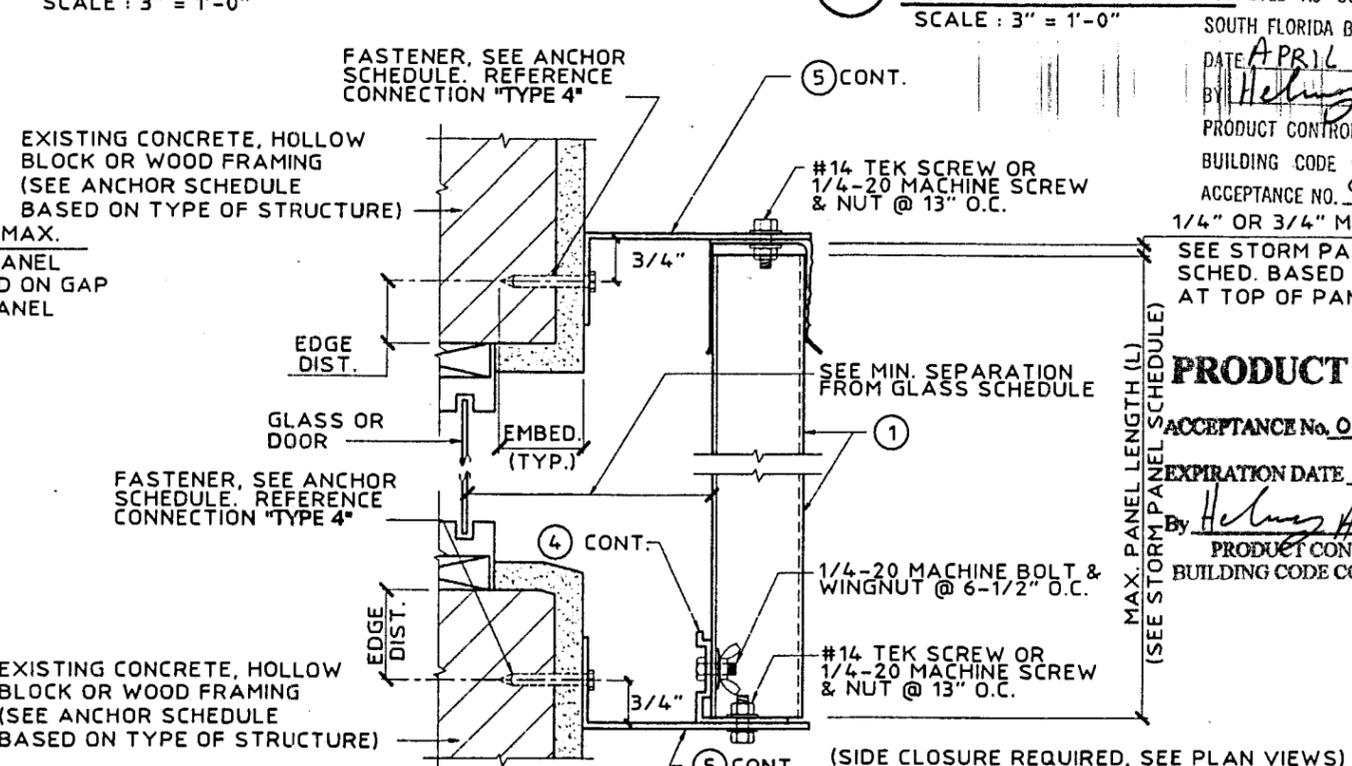
B CEILING/INSIDE MOUNT SECTION
 SCALE: 3" = 1'-0"



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



D ANGLE BUILD-OUT SECTION
 SCALE: 3" = 1'-0"



E ANGLE BUILD-OUT SECTION
 SCALE: 3" = 1'-0"

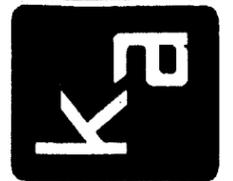
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE APRIL 30 1998
 BY Helmut A. Mark
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0225.01
 1/4" OR 3/4" MAX.
 SEE STORM PANEL SCHED. BASED ON GAP AT TOP OF PANEL

PRODUCT RENEWED

ACCEPTANCE No. 00-0721.04

EXPIRATION DATE 01/08/2004

By Helmut A. Mark
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 641 MOKENA DRIVE • MIAMI SPRINGS, FLORIDA 33166
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500
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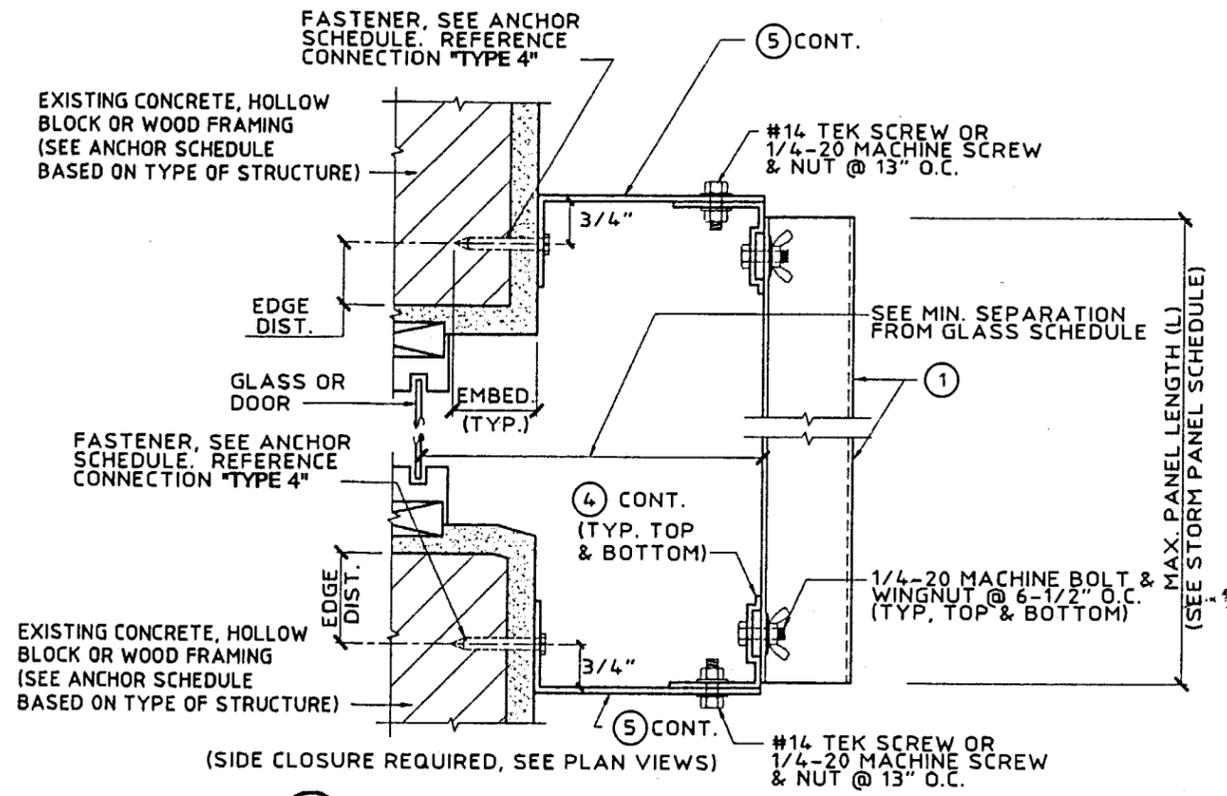
0.063" ALUMINUM STORM PANEL
ALL BROWARD HURRICANE PANEL CO.
 450 WEST MAGNAB ROAD
 FORT LAUDERDALE, FL 33308
 (954) 974-3300

Revisions	no.	date	description	COUNTY COMMENTS
1	03/25/98	JWK		

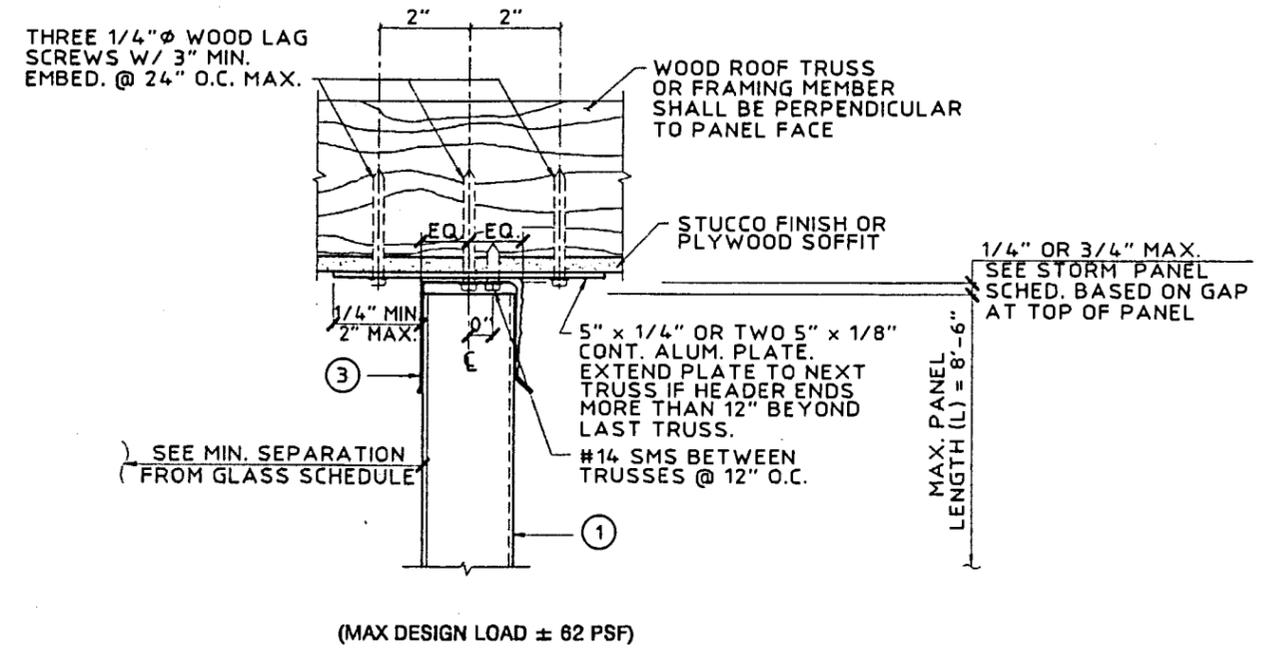
V. J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No:
 PE 0019983

MAR 27 1998

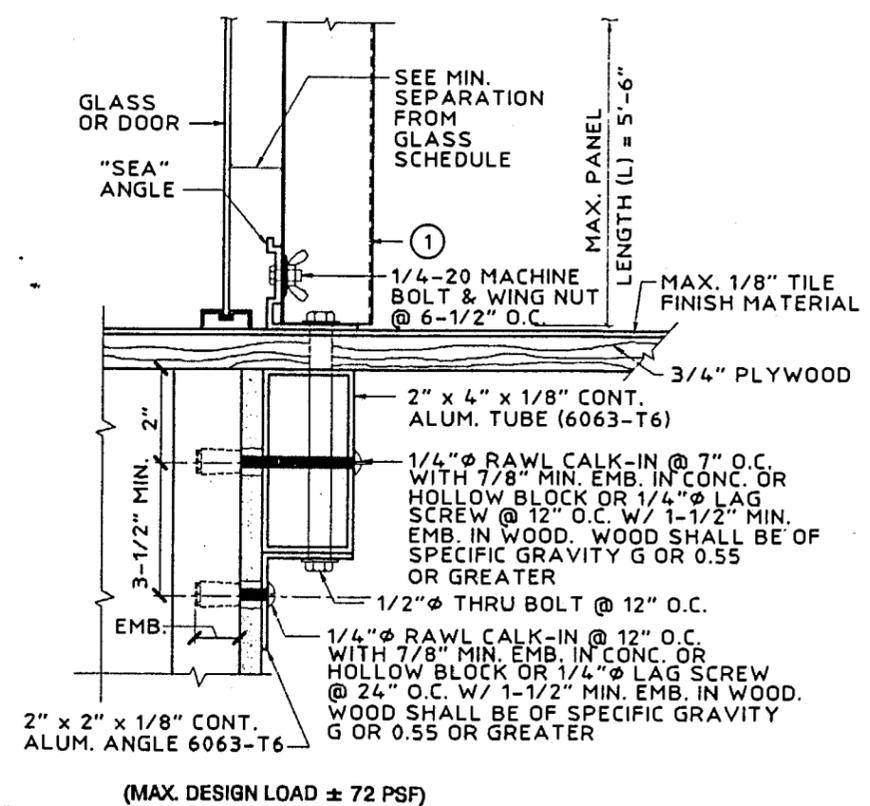
Date: 09/03/97
 AS NOTED
 design by: JWK/JP
 checked by: VJK
 drawing no.: 96-538
 sheet 3 of 6



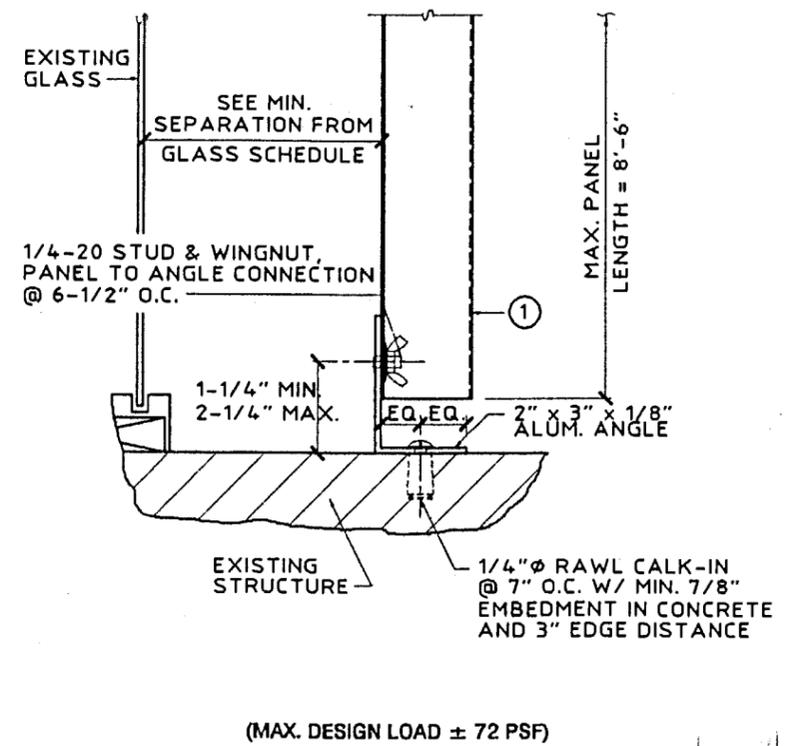
F ANGLE BUILD-OUT SECTION
 SCALE: 3" = 1'-0"



G SOFFIT CONNECTION SECTION
 SCALE: 3" = 1'-0"



H "PASS THRU" SECTION (IN CONCRETE)
 SCALE: 3" = 1'-0"



I FLOOR MOUNT SECTION
 SCALE: 3" = 1'-0"

PRODUCT RENEWED
 ACCEPTANCE No. 00-0721.04
 EXPIRATION DATE 01/08/2004
 By *Helmut A. Malar*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE APRIL 30 1998
 BY *Helmut A. Malar*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-1225.01



KNEZEVICH & ASSOCIATES, INC.
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 FAX: (305) 883-9572
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0.063" ALUMINUM STORM PANEL
ALL BROWARD HURRICANE PANEL, CO.
 450 WEST McNAB ROAD
 FORT LAUDERDALE, FL 33308
 (954) 374-5900

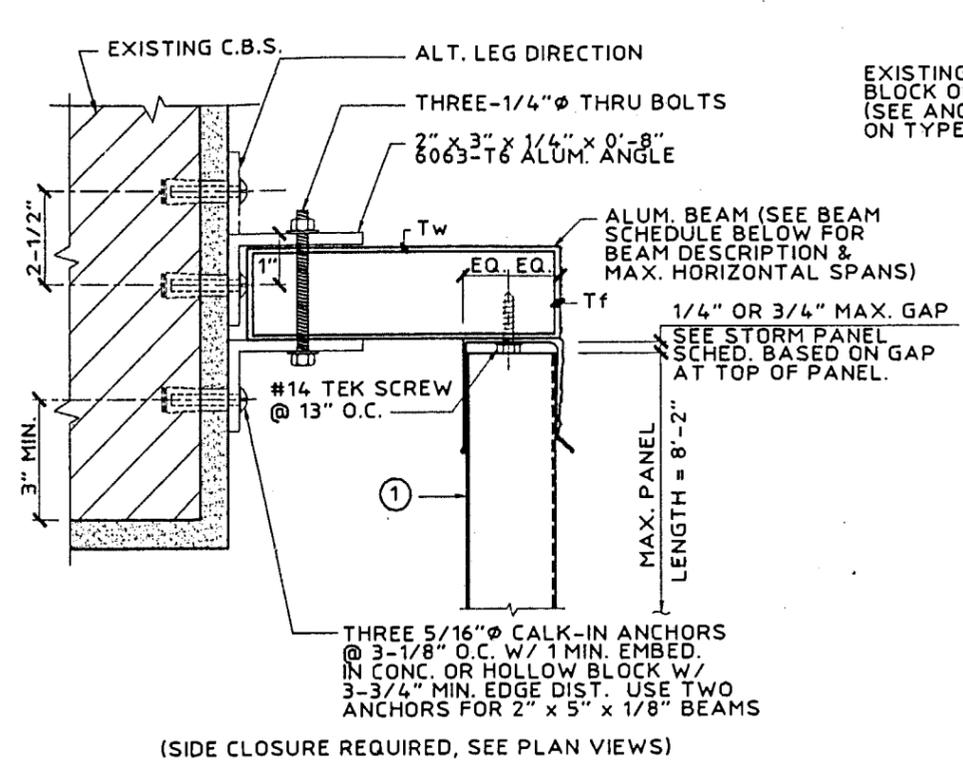
revisions	no.	date	description	COUNTY COMMENTS
1	03/25/98	JWK		

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

MAR 27 1998
 09/03/97
 AS NOTED drawn by JPC
 design by JWK/JPC checked by VJK
 drawing no. **96-538**
 sheet 4 of 6

PRODUCT RENEWED
 ACCEPTANCE No. 00-0721.04
 EXPIRATION DATE 01/08/2004
 By Helmut A. Mahr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

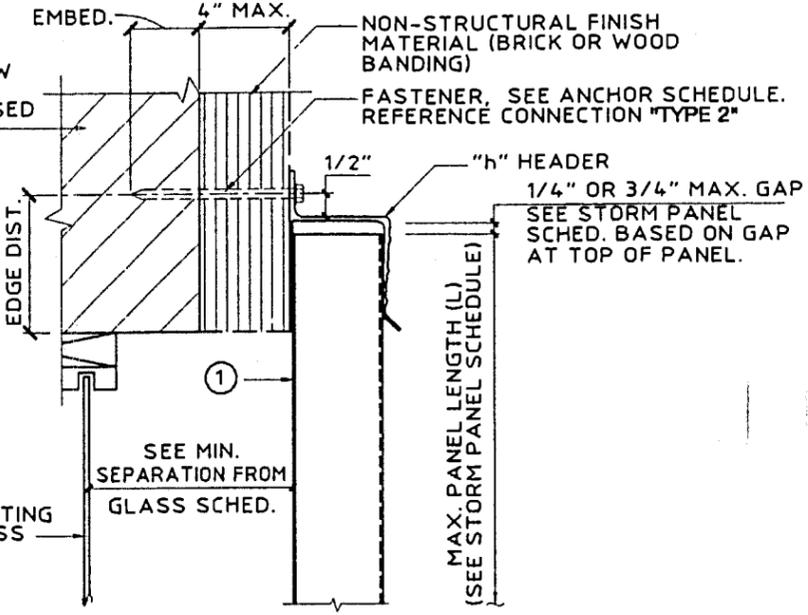
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE APRIL 30 1998
 BY Helmut A. Mahr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0225.01



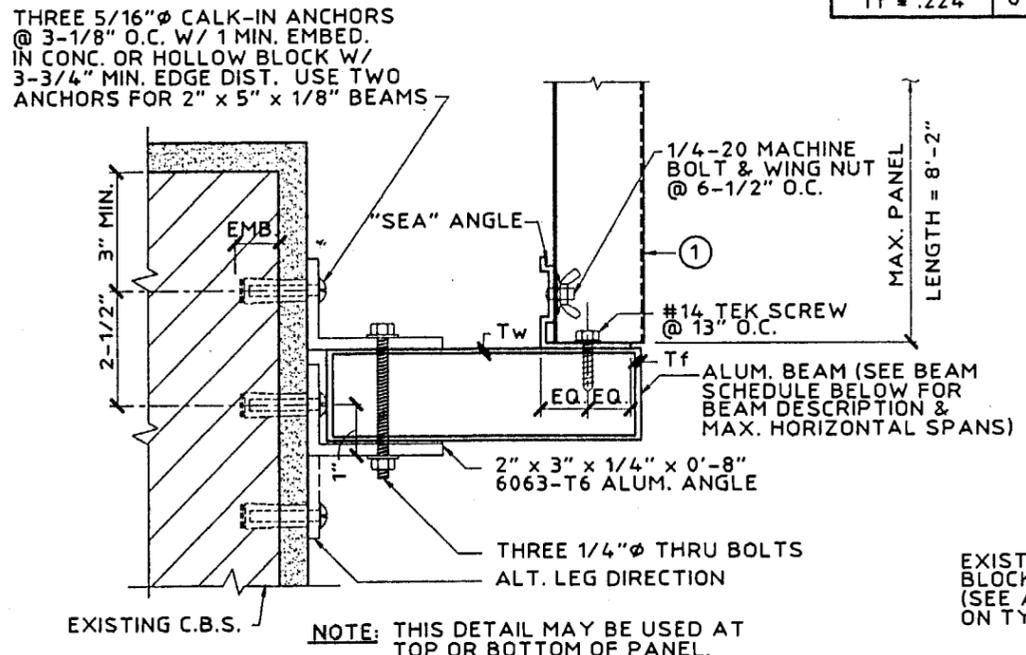
J TOP BEAM SUPPORT SECTION
 SCALE: 3" = 1'-0"

(SIDE CLOSURE REQUIRED, SEE PLAN VIEWS)
 (MAX. DESIGN LOAD ± 72 PSF)

BEAM SCHEDULE		
DESCRIPTION	PANEL SPAN	BEAM SPAN
2" x 5" Tw = .125" Tf = .125"	5'-0"	9'-5"
2" x 9" Tw = .072" Tf = .224"	5'-0"	15'-11"
	8'-2"	13'-6"

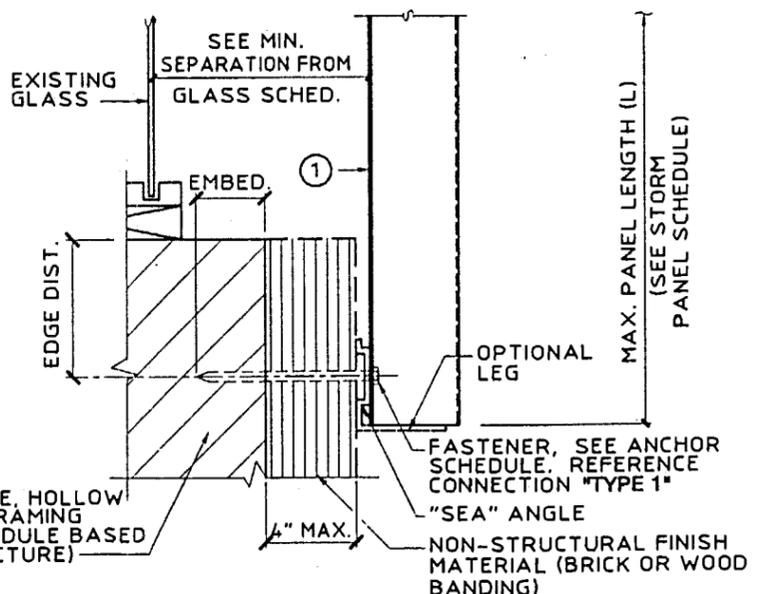


K WALL MOUNT SECTION
 SCALE: 3" = 1'-0"

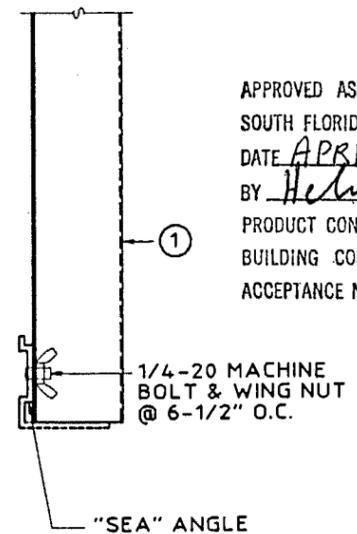


L BOTTOM BEAM SUPPORT SECTION
 SCALE: 3" = 1'-0"

(SIDE CLOSURE REQUIRED, SEE PLAN VIEWS)
 (MAX. DESIGN LOAD ± 72 PSF)



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



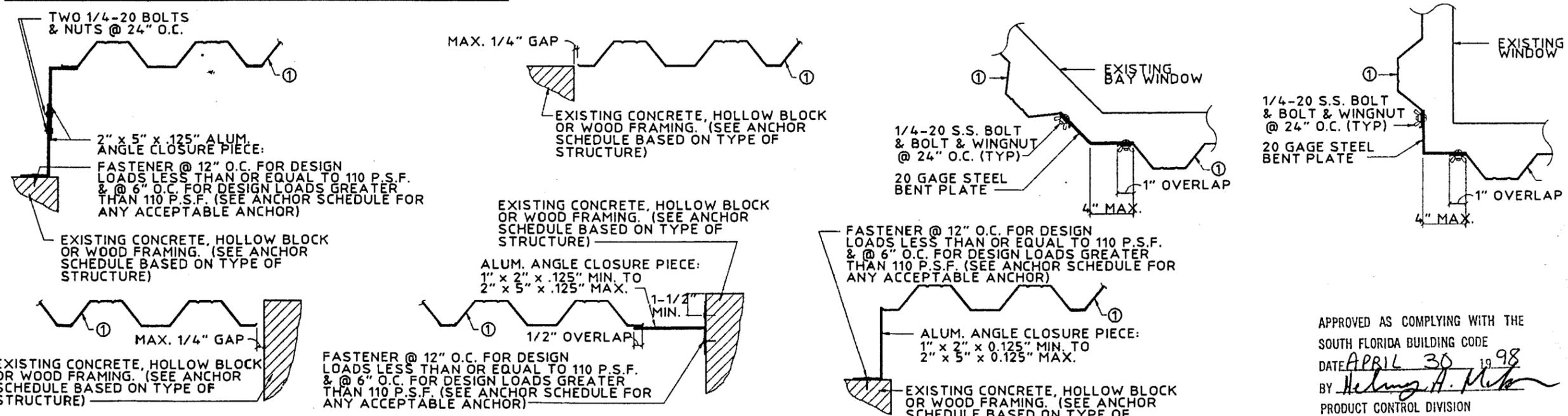
(PANEL TO ANGLE DETAIL)

TABLE 1 STORM PANEL SCHEDULE		
NEGATIVE DESIGN LOAD W (PSF)	ALL MOUNTING CONDITIONS (MAX. 1/4" SPACE BETWEEN PANEL & HEADER)	ALL MOUNTING CONDITIONS (MAX. 3/4" SPACE BETWEEN PANEL & HEADER)
	(A) L max. (FT - IN)	(B) L max. (FT - IN)
30.0	10 - 10	10 - 10
40.0	10 - 5	10 - 5
45.0	10 - 2	10 - 2
50.0	9 - 11	9 - 11
55.0	9 - 8	9 - 8
60.0	9 - 5	9 - 5
62.0	9 - 4	9 - 4
65.0	9 - 3	9 - 2
70.0	9 - 1	8 - 6
72.0	9 - 0	8 - 4
75.0	8 - 11	8 - 0
80.0	8 - 9	7 - 6
90.0	8 - 0	6 - 8
100.0	7 - 2	6 - 0
110.0	6 - 6	5 - 5
120.0	6 - 0	5 - 0
130.0	5 - 6	4 - 7
140.0	5 - 1	4 - 3
150.0	4 - 9	4 - 0
160.0	4 - 6	3 - 9
170.0	4 - 2	3 - 6
180.0	4 - 0	3 - 4
190.0	3 - 9	3 - 1
200.0	3 - 7	3 - 0

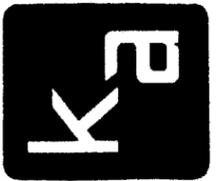
- NOTES:**
1. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. PANEL SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOAD ARE ACCEPTABLE.
 2. REFERENCE APPROPRIATE COLUMN IN SPAN TABLE BASED ON MOUNTING CONDITION IN FIELD.
 3. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SEPARATION FROM GLASS.
 4. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 SEPARATION FROM GLASS SCHEDULE			
POSITIVE DESIGN LOAD W (PSF)	ACTUAL STORM PANEL SPAN (FT. - IN.)	MINIMUM SEPARATION FOR INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	MINIMUM SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
35.0	6 - 0	3	1-1/2
	8 - 8		2
	10 - 10		3
40.0	6 - 0	3	1-1/2
	8 - 8		2-1/8
	10 - 5		3
50.0	6 - 0	3	1-5/8
	8 - 8		2-1/4
	9 - 11		3
60.0	6 - 0	3	1-5/8
	8 - 8		2-1/2
	9 - 5		3
70.0	6 - 0	3	1-5/8
	8 - 8		2-3/4
	9 - 1		3
80.0	6 - 0	3	1-3/4
	8 - 8		2-7/8
	8 - 9		3
90.0	6 - 0	3	1-3/4
	8 - 0		2-5/8
	6 - 0		1-3/4
100.0	6 - 0	3	1-3/4
	7 - 2		2-1/4

PRODUCT RENEWED
 ACCEPTANCE No. 00-0721.04
 EXPIRATION DATE 01/08/2004
 By Helmut A. M... ..
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE



CLOSURE DETAILS (PLAN VIEWS)
 SCALE: 1-1/2" = 1'-0"



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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0.063" ALUMINUM STORM PANEL
AL BROWARD HURRICANE PANEL CO.
 460 WEST MGRAB ROAD
 FORT LAUDERDALE, FL 33308
 (954) 974-3300

revisions	no	date	description
	1	03/25/98	COUNTY COMMENTS

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

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE APRIL 30 1998
 BY Helmut A. M...
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0225.01

MAR 27 1998
 date 09/03/97
 title AS NOTED drawn by MC
 design by JWK/JP checked by VJK
 drawing no. **96-538**
 sheet 5 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)	3/4" EDGE DISTANCE														
			SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-10" (SEE NOTE 1)				
			CONNECTION TYPE					CONNECTION TYPE					CONNECTION TYPE				
			1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
WOOD		56	13	13	10	13	11	13	10	7	10	7	13	6	5	8	6
		62	13	13	9	13	10	13	8	6.5	9	7	13	5	5	7	5
		72	13	13	8	11	8	13	5	5	8	6	13	4	4	7	5
		105	13	5	5	8	6	13	4	4	7	5	13	4	4	7	5
	200	13	4	4	7	5	13	4	4	7	5	13	4	4	7	5	
		56	13	13	8.5	13	11	13	10	5	10	7	13	6	4	8	6
		62	13	13	7	13	10	13	8	5	9	7	13	5	4	7	5
		72	13	13	6.5	11	8	13	5	4	8	6	13	4	3	7	5
		105	13	5	4	8	6	13	4	3	7	5	13	4	3	7	5
	200	13	4	3	7	5	13	4	3	7	5	13	4	3	7	5	
		56	13	13	13	13	13	13	13	13	11	13	9	10	12	9	
		62	13	13	13	13	13	12	11	13	10	13	7	9	11	8	
72		13	13	13	13	13	8	10	12	9	13	6.5	8	10	7		
105		13	8	10	11	9	13	6.5	8	10	7	13	6.5	8	10	7	
200	13	6.5	8	10	7	13	6.5	8	10	7	13	6.5	8	10	7		
	56	13	13	7	5	4	10	3	5	4	3	8	4	3	7		
	62	13	9	6.5	5	3	9	3	4	3	7	7	3	7	5		
	72	11	5	5	4	3	8	4	3	7	5	7	3	7	5		
	105	8	4	3	7	5	7	3	7	5	7	3	7	5			
200	7	3	7	5	7	3	7	5	7	3	7	5					

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 OF 8.
- 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.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT. REMOVABLE ANCHORS ARE REQUIRED FOR DIRECT MOUNT @ 6-1/2" OR 13" O.C. MAX. SPACING ONLY. SPACINGS SHALL NOT EXCEED VALUE SPECIFIED IN ANCHOR SCHEDULE. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE SLOT.

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 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-10" (SEE NOTE 1)					SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-10" (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	1	2	3	4	5
MIN. 3,000 PSI CONCRETE		56	13	13	13	13	11	13	10	10	10	8	13	6.5	8	8	6.5	13	13	13	13	12	13	11	12	11	8	13	7	9	9	7					
		62	13	13	13	13	10	13	8	9	9	7	13	5	7	7	5	13	13	13	13	11	13	9	10	10	7	13	5	8	8	6					
		72	13	13	11	12	9	13	6	8	8	6	13	4	6.5	7	5	13	13	13	13	9	13	6.5	9	9	6.5	13	5	8	7	5					
		105	13	6	7	8	6	13	4	6.5	7	5	13	4	6.5	7	5	13	6.5	9	9	6.5	13	5	8	7	5	13	5	8	7	5					
	200	13	4	6.5	7	5	13	4	6.5	7	5	13	5	8	7	5	13	5	8	7	5	13	5	8	7	5	13	5	8	7	5						
		56	13	13	12	13	11	13	10	8	10	8	13	6	6.5	8	6	13	13	13	13	13	13	13	13	13	10	13	8	10	10	8					
		62	13	13	10	13	10	13	8	7	9	7	13	5	6	7	5	13	13	13	13	13	13	10	12	11	9	13	6.5	9	9	7					
		72	13	13	9	11	9	13	6	6.5	8	6	13	4	5	7	5	13	13	13	13	11	13	7	10	10	7	13	5	9	8	6.5					
		105	13	5	6.5	8	6	13	4	5	7	5	13	4	5	7	5	13	7	10	10	7	13	5	9	8	6.5	13	5	9	8	6.5					
	200	13	4	5	7	5	13	4	5	7	5	13	4	5	7	5	13	5	9	8	6.5	13	5	9	8	6.5	13	5	9	8	6.5						
		56	13	13	7	7	5	13	5	5	5	3	10	3	4	4	3	13	13	9	7.5	5	13	5	6	5	3	11	3	5	4	3					
		62	13	12	7	6.5	5	12	3	5	4	3	9	4	3	8	3	3	13	12	8	6.5	5	12	4	5	4	3	9	4	3	8					
72		13	6.5	6	5	4	10	4	3	3	8	3	3	8	3	3	13	7	7	5	4	10	3	4	4	3	9	4	3	8							
105		10	4	3	8	3	3	8	3	3	8	3	3	10	4	3	9	4	3	9	4	3	9	4	3	9	4	3	9	4	3						
200	8	3	3	8	3	3	8	3	3	8	3	3	9	4	3	9	4	3	9	4	3	9	4	3	9	4	3	9	4	3							
	56	13	13	6.5	5	3	9	3	4	3	7	6	3	7	5	13	13	7	5	4	10	3	5	3	8	4	3	7	5								
	62	12	8	5	4	3	8	4	3	7	6.5	3	7	5	13	9	6.5	5	3	9	3	4	3	7	6.5	3	7	5									
	72	10	4	5	4	3	7	3	7	5	6	3	7	5	13	11	5	5	4	3	7	4	3	6.5	3	6.5	3	7	5								
	105	7	3	7	5	6	3	7	5	6	3	7	5	13	7	3	3	6.5	3	7	5	6.5	3	6.5	3	6.5	3	7	5								
200	6	3	7	5	6	3	7	5	6	3	7	5	13	6.5	3	6.5	3	6.5	3	6.5	3	6.5	3	6.5	3	6.5	3	6.5	3								
	56	13	13	6.5	6	4	11	4	4	4	3	9	3	3	13	13	10	8	6	13	5	7	5	4	11	3	5	4	3								
	62	13	10	6	5	4	10	3	4	4	3	8	3	3	13	13	9	7	5	13	4	6	5	3	10	5	4	3	8								
	72	13	6	5	5	3	9	3	3	7	3	3	7	3	3	13	7	7	6	4	11	3	5	4	3	9	4	3	8								
	105	8	3	3	7	3	3	7	3	3	7	3	3	11	3	5	4	3	9	3	9	4	3	9	4	3	9	4	3								
200	7	3	3	7	3	3	7	3	3	7	3	3	9	4	3	9	4	3	9	4	3	9	4	3	9	4	3										
	56	13	13	7	7	5	13	5	5	5	3	10	3	4	4	3	13	13	9	7	5	13	5	6	5	3	11	3	5	4	3						
	62	13	12	7	6.5	5	12	3	5	4	3	9	4	3	8	3	3	13	12	8	6.5	5	12	4	5	4	3	9	4	3	8						
	72	13	6.5	6	5	4	10	4	3	3	8	3	3	13	7	7	5	4	10	3	4	4	3	9	4	3	9	4	3	8							
	105	10	4	3	8	3	3	8	3	3	8	3	3	10	4	3	9	4	3	9	4	3	9	4	3	9	4	3									
200	8	3	3	8	3	3	8	3	3	8	3	3	9	4	3	9	4	3	9	4	3	9	4	3	9	4	3										

HOLLOW CONCRETE BLOCK

PRODUCT RENEWED

ACCEPTANCE No. 00-0721.04
 EXPIRATION DATE 01/08/2004
 By Helmut A. Mohr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE APRIL 30, 1998
 BY Helmut A. Mohr
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 98-0225.01



KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS - PRODUCT TESTING
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1	09/03/97		

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 sheet 6 of 6