



**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**

**JJLP Inc.**  
**8009 N.W. 54 Street**  
**Miami, FL 33166**

Your application for Notice of Acceptance (NOA) of:

**20 ga. (0.035" w/o galvanic coating) Galvanized Steel 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.: 01-0228.11**  
**EXPIRES: 05/28/2006**

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: 05/03/2001**

**JJLP, Inc.**

**ACCEPTANCE No. :** 01-0228.11

**APPROVED :** 05/03/2001

**EXPIRES :** 05/28/2006

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This renews the Notice of Acceptance No. 98-0128.06, which was issued on May 28, 1998. It approves 0.035" Galvanized Steel 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 0.035" Galvanized Steel Storm Panels Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 97-479, titled " 20 ga. Galvanized Steel Storm Panel", prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated January 12, 1998, last revision #2 dated April 20, 1998, sheets 1 through 4 of 4, bearing the Miami-Dade County Product Control Approval and Renewal stamps with the Notice of Acceptance numbers and approval dates by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

**3. LIMITATIONS**

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

**4. INSTALLATION**

This 0.035" Galvanized Steel 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".

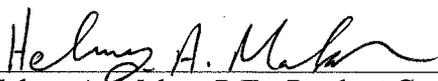
**6. BUILDING PERMIT REQUIREMENTS**

**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

**JJLP, Inc.**

**ACCEPTANCE No. :** 01-0228.11

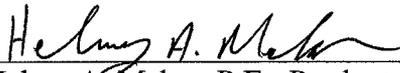
**APPROVED :** 05/03/2001

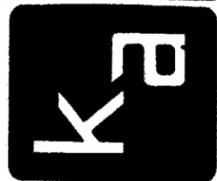
**EXPIRES :** 05/28/2006

**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



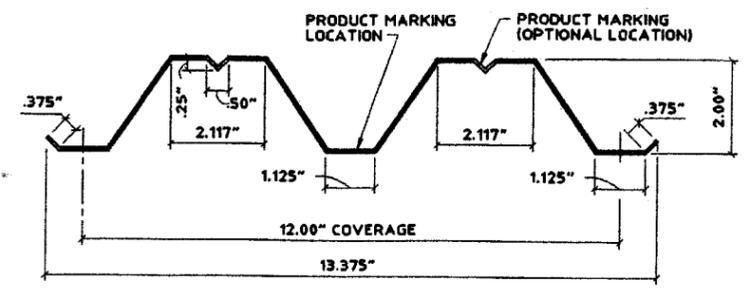
**KNEZEVICH & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS - PRODUCT TESTING  
 641 MOKENA DRIVE - MIAMI SPRINGS, FLORIDA 33166  
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500  
 FAX: (305) 883-9572  
 COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

20 GA GALVANIZED STEEL STORM PANEL  
**JJLP inc. Hurricane Protection**  
 8008 N.W. 54th Street - Miami, FL 33188  
 (305) 984-7587

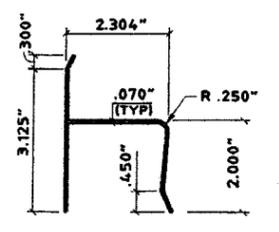
no	date	description
1	01/28/98 VJK	REV. NOTE #3
2	04/20/98 VJK	BCCO REVISIONS

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

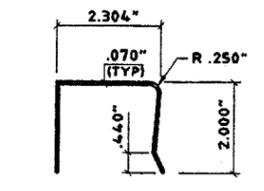
APR 20 1998  
 date 01/12/98  
 scale AS NOTED  
 design by VJK  
 checked by VJK  
 drawing no. 97-479  
 sheet 1 of 4



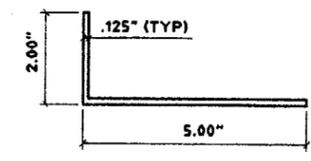
**1 STORM PANEL**  
 SCALE: 3" = 1'-0"



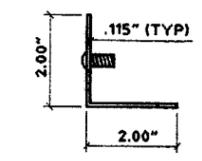
**2 "h" HEADER**  
 SCALE: 3" = 1'-0"



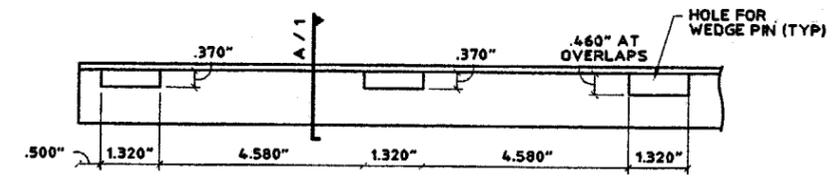
**3 "U" HEADER**  
 SCALE: 3" = 1'-0"



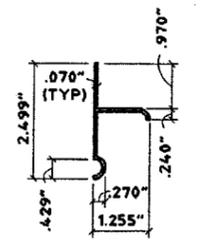
**4 ANGLE**  
 SCALE: 3" = 1'-0"



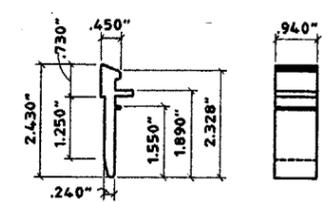
**5 STUDDED ANGLE**  
 SCALE: 3" = 1'-0"



**PLAN**

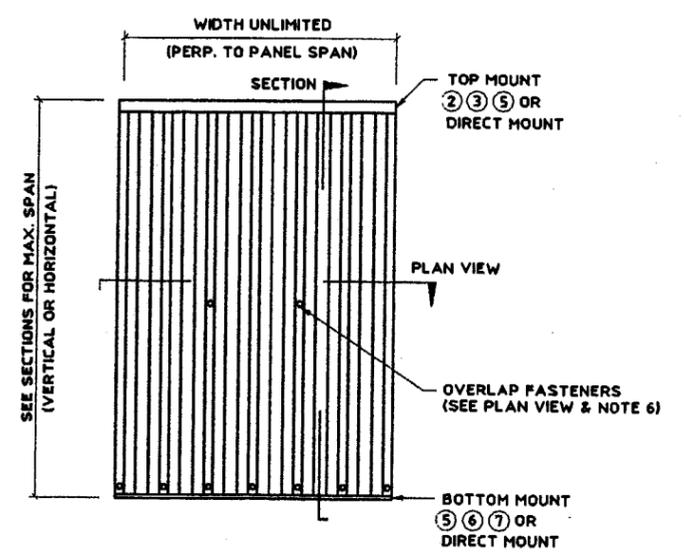


**SECTION A**

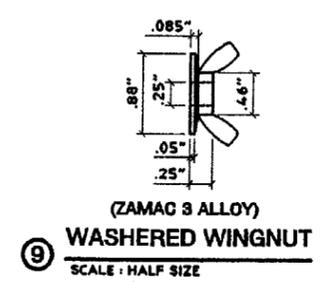


**6 BOTTOM TRACK**  
 SCALE: 3" = 1'-0"

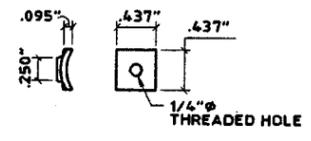
**7 WEDGE PIN**  
 SCALE: 3" = 1'-0"



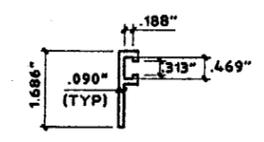
**8 TYPICAL ELEVATION**  
 N.T.S.



**9 WASHERED WINGNUT**  
 SCALE: HALF SIZE

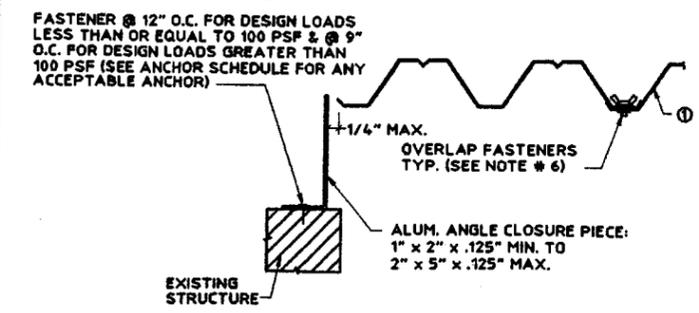


**10 "PM" NUT**  
 SCALE: HALF SIZE

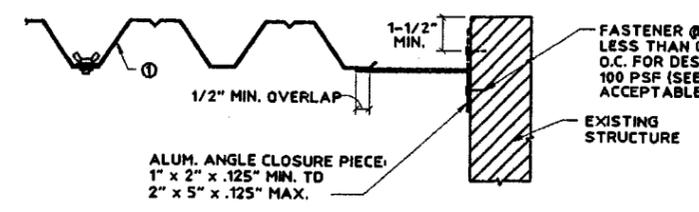


**11 "F" TRACK**  
 SCALE: HALF SIZE

- 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 IN ACCORDANCE WITH ASCE 7-88 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".
  - STORM PANELS SHALL BE 20 GAUGE STEEL (t = .035") CONFORMING TO ASTM A653, STRUCTURAL QUALITY GRADE 40, GALVANIZED COATING 60. ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6, U.O.N.
  - PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MIN. OF ONE MARKING PER PANEL OR ONE MARKING ON HEADER OR SILL AND SHALL BE LABELED AS FOLLOWS:  
 JJLP, INC.  
 MIAMI, FL  
 DADE COUNTY  
 PRODUCT CONTROL APPROVED
  - ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM Fy = 33 KSI.
  - ALL PANELS SHALL BE FASTENED AT OVERLAPS AT MIDSPAN W/ 1/4-20 x 1" BOLTS WITH ONE CAST ALUMINUM WASHERED WINGNUTS (SEE TYPICAL ELEVATION). FOR PANEL SPANS LESS THAN 33" OVERLAP FASTENERS ARE NOT REQUIRED.
  - MATERIAL SPECIFICATIONS NOTED HEREIN ARE THE MANUFACTURER'S REPRESENTATION OF MATERIALS USED IN PRODUCT TESTING.
  - THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE TESTED IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201, 202, AND 203.  
 DESIGN IS BASED ON CONSTRUCTION TESTING CORPORATION TEST (CTC) REPORT No.95-015 & No. 96-001.
  - AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANEL SYSTEM ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS ARE PROPERLY INSTALLED.
  - TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
  - THIS DRAWING IS NOT VALID WITHOUT JJLP INC. RAISED CORPORATE SEALUM.



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



**PRODUCT RENEWED**

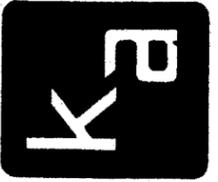
ACCEPTANCE No. 01-0228.11

EXPIRATION DATE 05/28/2006

By *Herlitz A. Moker*

PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE *MAY 28 1998*  
 BY *Herlitz A. Moker*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. *98-0128.06*



**KNEZEVICH & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS • PRODUCT TESTING  
 6471 MOKENA DRIVE • MIAMI SPRINGS, FLORIDA 33166  
 MIAMI (305) 883-9571 FT. LAUDERDALE (954) 677-9500  
 FAX: (305) 883-9572  
 COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

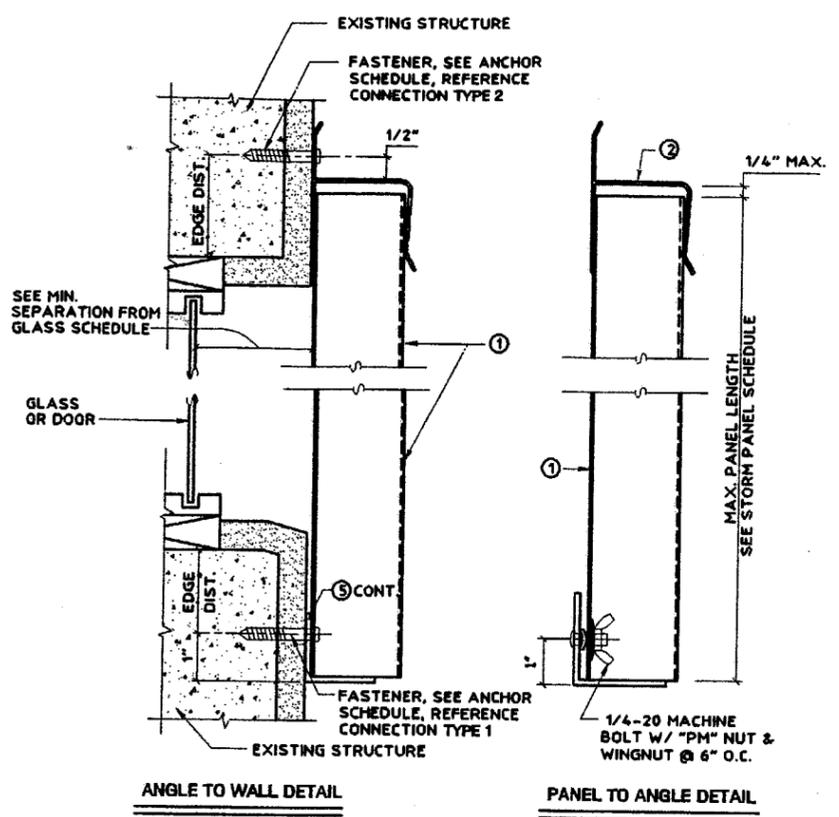
20 GA GALVANIZED STEEL STORM PANEL  
**JJLP inc. Hurricane Protection**  
 8009 N.W. 54th Street • Miami, FL 33186  
 (305) 994-7567

no.	date	description	REV. NOTE #3
1	01/28/98/VJK		
2	04/20/98/VJK	BCCO REVISIONS	

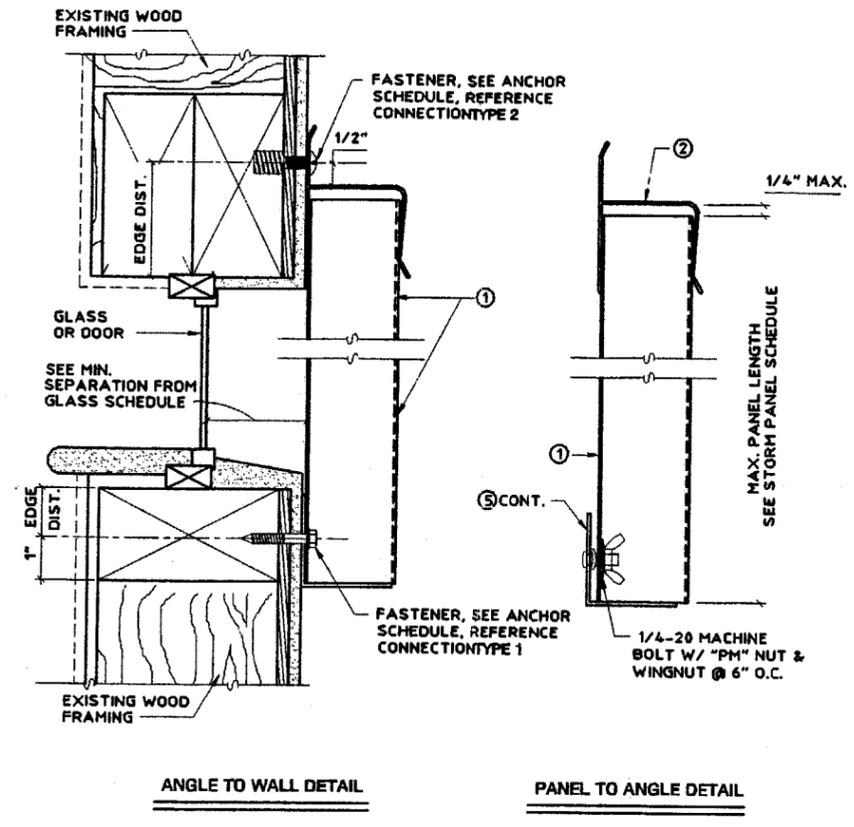
**V.J. KNEZEVICH**  
 PROFESSIONAL ENGINEER  
 FL License No: PE 8010983

APR 30 1998

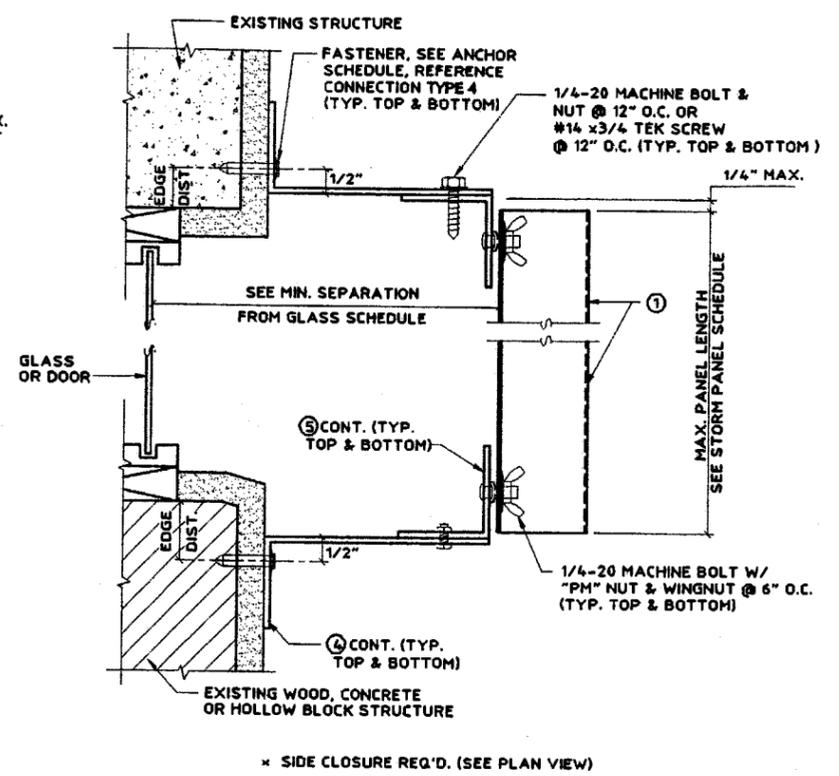
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scale	AS NOTED
drawn by	MC
design by	VJK
checked by	VJK
drawing no.	97-479
sheet	2 of 4



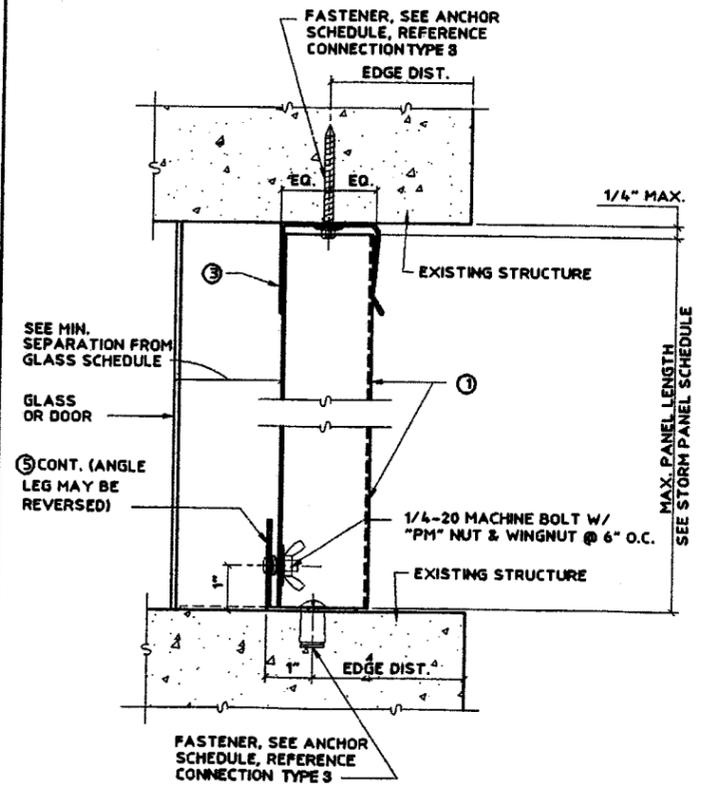
**A WALL MOUNT SECTION**  
 SCALE: 3" = 1'-0"



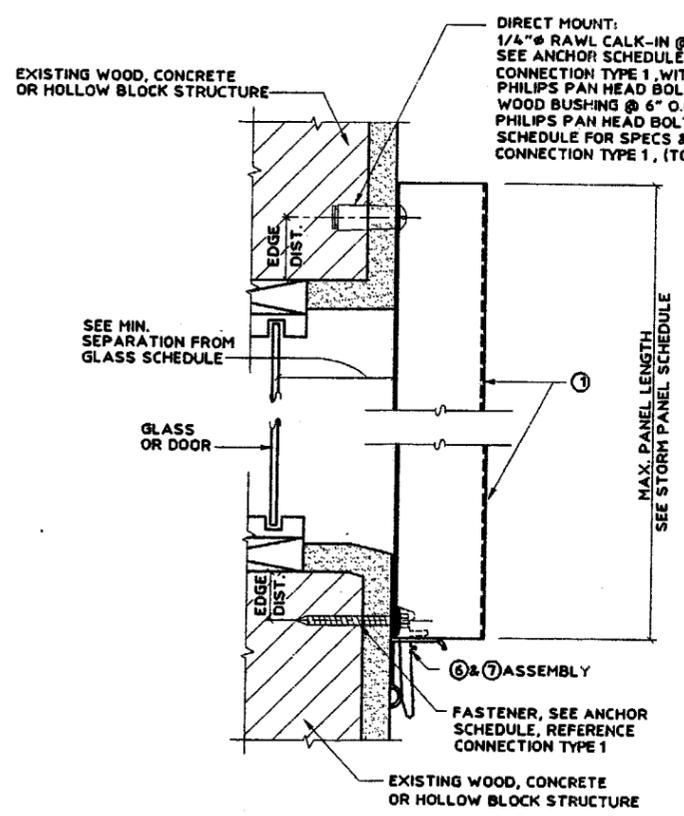
**B WALL MOUNT SECTION**  
 SCALE: 3" = 1'-0"



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



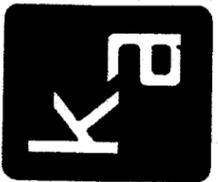
**D CEILING/INSIDE MOUNT SECTION**  
 SCALE: 3" = 1'-0"



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

**PRODUCT RENEWED**  
 ACCEPTANCE No. 01-0228.11  
 EXPIRATION DATE 05/28/2006  
 By *Helmut A. Mark*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE *MAY 28* 1998  
 BY *Helmut A. Mark*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. *98-0128.06*



**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.

**20 GA GALVANIZED STEEL STORM PANEL**  
**JULP inc. Hurricane Protection**  
 8009 N.W. 54th Street • Miami, FL 33166  
 (305) 884-7567

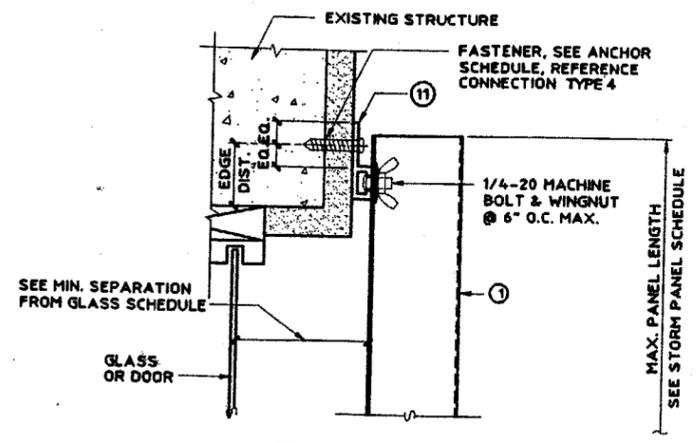
no.	date	by	description
1	01/28/98	VJK	REV. NOTE #3
2	04/20/98	VJK	BCCD REVISIONS

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

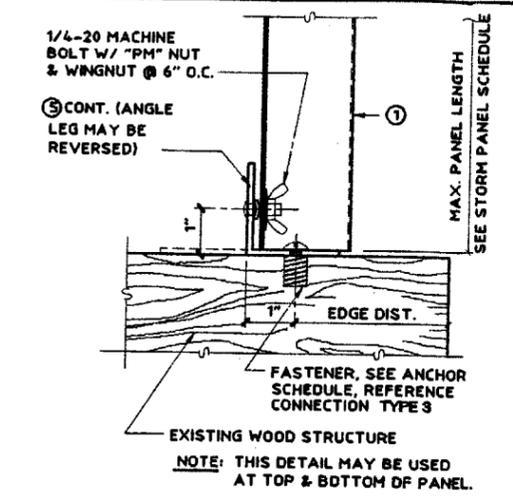
**APR 20 1998**  
 date 01/12/98

scale AS NOTED drawn by MC  
 design by VJK checked by VJK

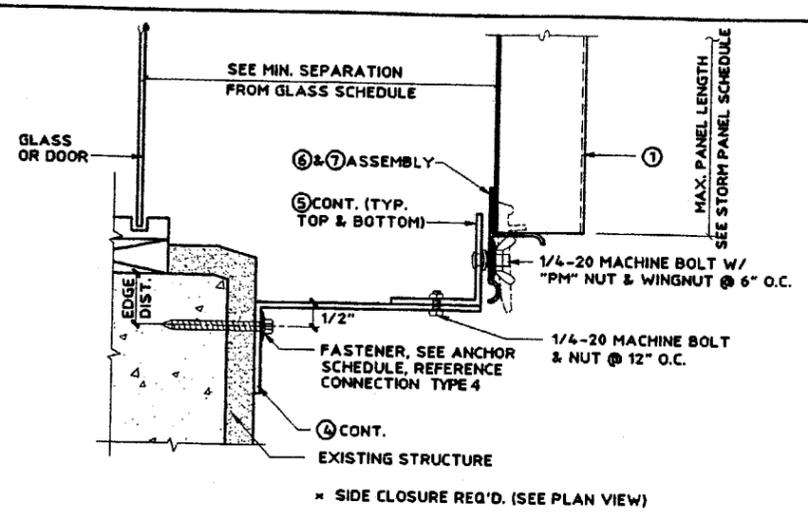
drawing no. **97-479**  
 sheet 3 of 4



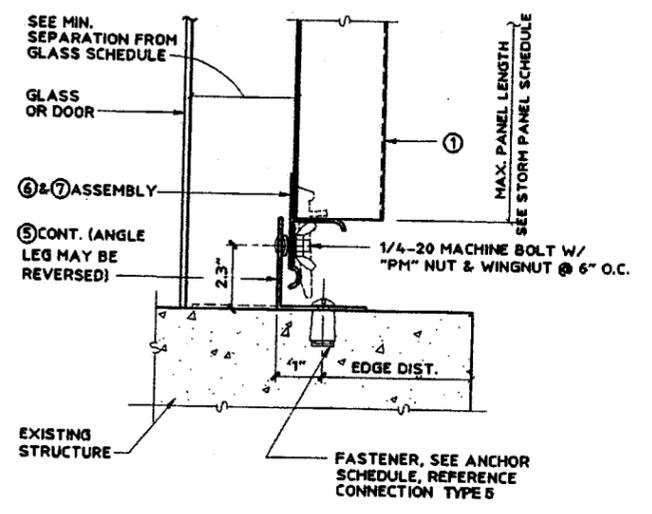
**F WALL MOUNT SECTION (TOP)**  
 SCALE: 3" = 1'-0"



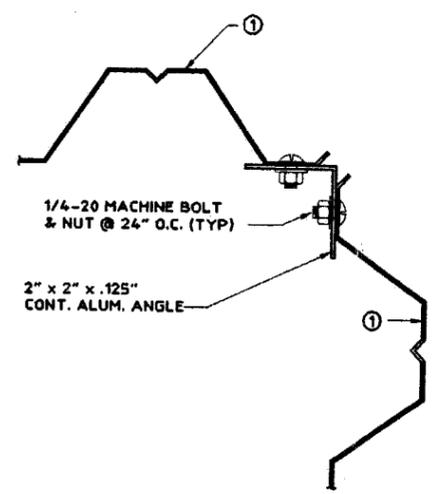
**G FLOOR MOUNT SECTION (IN WOOD)**  
 SCALE: 3" = 1'-0"



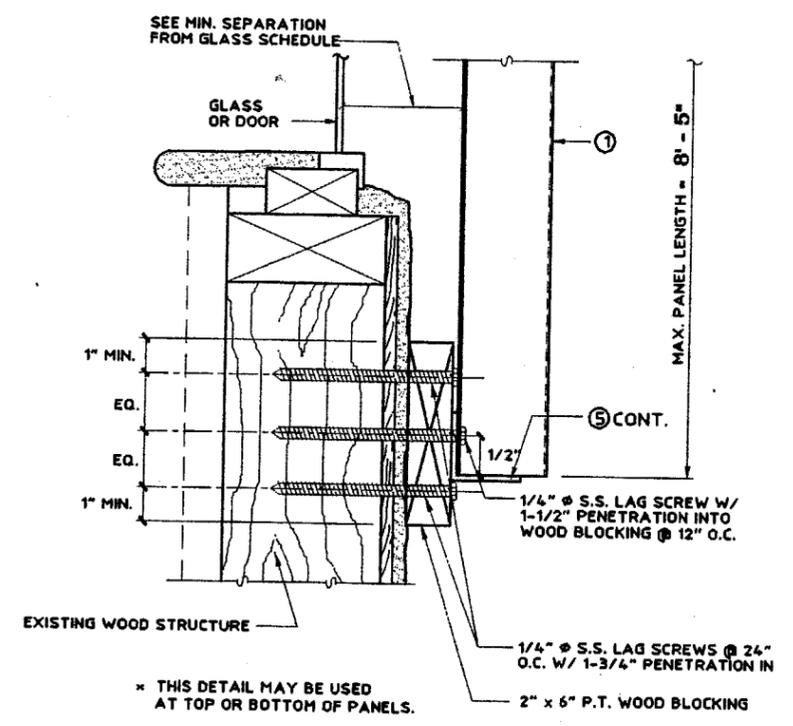
**H BUILD-OUT MOUNT SECTION**  
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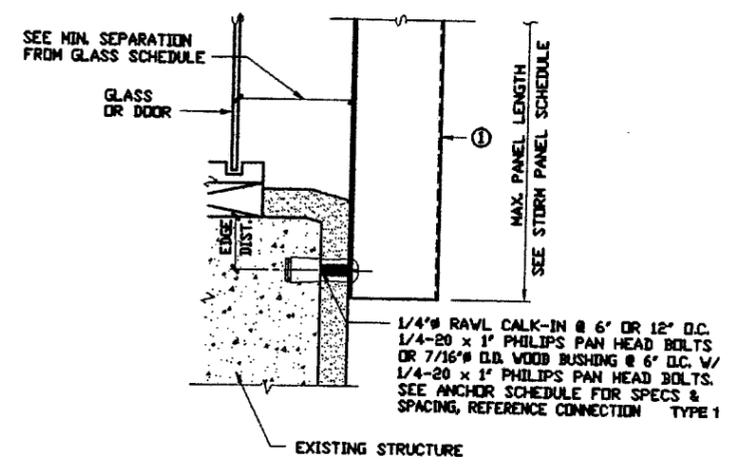
**I FLOOR MOUNT SECTION**  
 SCALE: 3" = 1'-0"



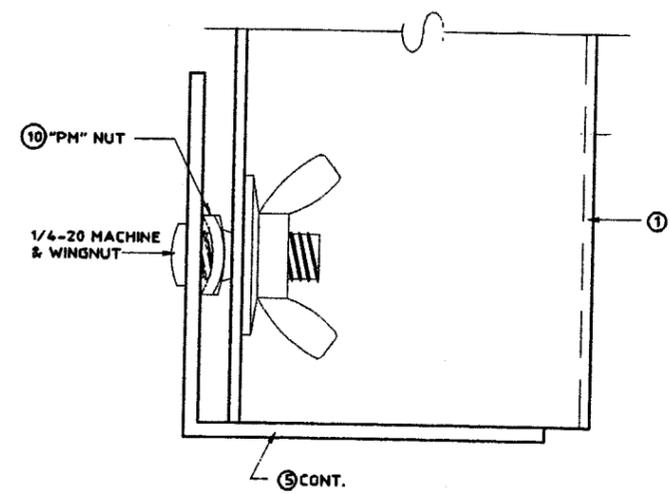
**J CORNER DETAIL**  
 SCALE: 3" = 1'-0"



**K WALL MOUNT SECTION (BOTTOM)**  
 SCALE: 3" = 1'-0"



**L WALL MOUNT SECTION (BOTTOM)**  
 SCALE: 3" = 1'-0"

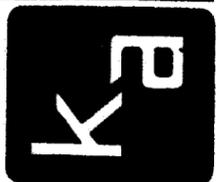


**M 'PM' NUT ASSEMBLY**  
 SCALE: HALF SIZE

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0228.11  
 EXPIRATION DATE 05/28/2006  
 By Helmut A. Haker  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE MAY 28 1998  
 BY Helmut A. Haker  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 98-0128.06



**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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 COPYRIGHT 1998 KNEZEVICH & ASSOCIATES, INC.

20 GA GALVANIZED STEEL STORM PANEL  
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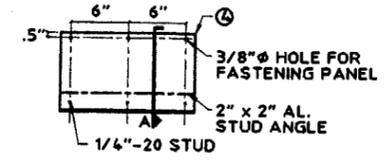
REV. NO.	DATE	DESCRIPTION	REV. NOTE #3	BCCO REVISIONS
1	01/28/98			
2	04/20/98			

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

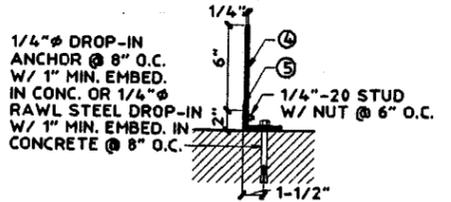
**APR 20 1998**  
 date 01/12/98  
 scale AS NOTED drawn by MC  
 design by VJK checked by VJK  
 drawing no. 97-479  
 sheet 4 of 4

**TABLE 1**

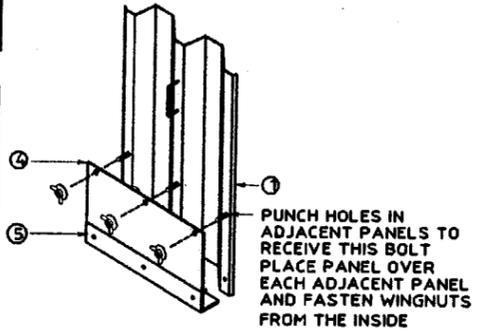
STORM PANEL SCHEDULE		
NEGATIVE DESIGN LOAD W (PSF)	FOR ALL MOUNTING CONDITIONS	FOR STUD ANGLE MOUNTS AND DIRECT MOUNTS (TOP & BOTTOM)
	L max. (FT-IN)	L max. (FT-IN)
40.0	11 - 4	11 - 5
50.0	10 - 2	11 - 5
60.0	9 - 3	11 - 0
70.0	8 - 7	10 - 5
80.0	7 - 7	9 - 9
90.0	6 - 9	9 - 2
100.0	6 - 0	8 - 9
110.0	5 - 6	8 - 4
120.0	5 - 0	8 - 0
130.0	4 - 8	7 - 8
140.0	4 - 4	7 - 4
150.0	4 - 0	7 - 1
160.0	3 - 9	6 - 11
170.0	3 - 6	6 - 8
180.0	3 - 4	6 - 6
190.0	3 - 2	6 - 3
200.0	3 - 0	6 - 0
210.0	2 - 10	5 - 8
220.0	2 - 9	5 - 5
230.0	2 - 7	5 - 2



**INTERIOR FASTENING ANGLE ASSEMBLY**  
 SCALE: 3" = 1'-0"



**INTERIOR FASTENING ANGLE ASSEMBLY (SECTION A)**  
 SCALE: 3" = 1'-0"



**STORM PANEL INTERIOR FASTENING (ISOMETRIC)**  
 SCALE: 3" = 1'-0"

- ANCHOR NOTES:**
- 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 WOOD STUD (NOMINAL 2" x 4" MIN.).
  - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
  - SPANS AND LOADS SHOWN HERE ARE FOR ANCHOR MATERIAL, ANCHOR TYPE AND EDGE DISTANCE ONLY. ALLOWABLE SHUTTER SPANS FOR ANY LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, SHEET 4 OF 4.

**TABLE 2**

ANCHOR SCHEDULE																																
FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																																
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 4)	2" EDGE DISTANCE																													
			5'-7" MAX. SPAN (SEE NOTE 4)					8'-6" MAX. SPAN (SEE NOTE 4)					11'-5" MAX. SPAN (SEE NOTE 4)																			
			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
MIN. 3,000 PSI CONCRETE	1/4" RAWL CALK-IN W/ 7/8" EMBEDMENT & 1/4" S.S. MACHINE SCREW	52	12	12	12	12	10	12	12	10	12	7	12	7	9	5	12	12	12	12	12	12	12	10	12	9	12	12	7			
		62	12	12	12	12	9	12	9	8	9	5	12	7	7	9	5	12	12	12	12	12	12	12	8	12	9	12	11	7		
		72	12	12	11	12	7	12	7	7	9	5	12	7	7	9	5	12	12	12	12	11	12	9	12	11	7	12	9	12	11	7
	1/4" ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	156	12	7	7	9	5	12	7	7	9	5	12	7	7	9	5	12	9	12	11	7	12	9	12	11	7	12	9	12	11	7
		230	12	7	7	9	5	12	7	7	9	5	12	7	7	9	5	12	7	7	9	5	12	9	12	11	7	12	9	12	11	7
		52	12	12	12	12	8	12	7	9	12	5	12	4	7	5	4	12	12	12	12	10	12	8	12	6	12	5	8	6	4	
HOLLOW CONCRETE BLOCK	1/4" RAWL CALK-IN W/ 7/8" EMBEDMENT & 1/4" S.S. MACHINE SCREW	62	12	12	12	12	7	12	5	8	7	4	12	4	7	5	4	12	12	12	12	8	12	6	10	8	5	12	5	8	6	4
		72	12	9	10	12	6	12	4	7	5	4	12	4	7	5	4	12	10	12	12	7	12	5	8	6	4	12	5	8	6	4
		156	12	4	7	5	4	12	4	7	5	4	12	4	7	5	4	12	5	8	6	4	12	5	8	6	4	12	5	8	6	4
	1/4" ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	230	12	4	7	5	4	12	4	7	5	4	12	4	7	5	4	12	5	8	6	4	12	5	8	6	4	12	5	8	6	4
		52	12	12	9	12	5	12	5	6	10	3	9	3	4	4	12	12	12	12	8	12	6	9	12	5	11	4	7	5	3	
		62	12	9	7	12	4	10	4	5	5	3	9	3	4	3	12	11	12	12	6	12	5	8	6	4	11	4	6	4	3	
WOOD	1/4" S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PARALLEL TO WOOD GRAIN	52	12	12	12	12	9	12	12	8	12	6	12	7	6	9	4	12	12	12	12	8	12	6	9	4	12	7	6	9	4	
		62	12	12	11	12	8	12	9	7	12	5	12	7	6	9	4	12	12	12	12	7	12	6	9	4	12	7	6	9	4	
		72	12	12	9	12	6	12	7	6	9	4	12	7	6	9	4	12	12	12	12	6	12	6	9	4	12	7	6	9	4	
	1/4" S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PERPENDICULAR TO WOOD GRAIN	156	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4
		230	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4
		52	12	12	10	12	8	12	12	7	12	5	12	7	5	9	3	12	12	12	12	7	12	6	9	4	12	7	5	9	3	
7/16" O.D. BRASS WOOD BUSHING & 1/4" x 1" PHILIPS PAN HEAD BOLT W/ 5/8" MIN. EMBEDMENT	62	12	12	9	12	6	12	9	5	12	4	12	7	5	9	3	12	12	12	12	6	12	6	7	11	4	10	3	5	4	3	
	72	12	12	7	12	5	12	7	5	9	3	12	7	5	9	3	12	12	12	12	5	11	4	6	6	3	10	3	5	4	3	
	156	12	7	5	9	3	12	7	5	9	3	12	7	5	9	3	12	12	12	12	4	10	3	5	4	3	10	3	5	4	3	
WOOD	7/16" O.D. BRASS WOOD BUSHING & 1/4" x 1" PHILIPS PAN HEAD BOLT W/ 5/8" MIN. EMBEDMENT	230	12	7	5	9	3	12	7	5	9	3	12	7	5	9	3	12	12	12	12	4	10	3	5	4	3	10	3	5	4	3
		52	12	12	10	12	6	12	6	7	11	4	10	3	5	4	3	12	12	12	12	6	12	6	7	11	4	10	3	5	4	3
		62	12	10	9	12	5	11	4	6	6	3	10	3	5	4	3	12	12	12	12	5	11	4	6	6	3	10	3	5	4	3

**TABLE 2**

ANCHOR SCHEDULE																																
FASTENER SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																																
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 4)	3/4" EDGE DISTANCE																													
			5'-7" MAX. SPAN (SEE NOTE 4)					8'-6" MAX. SPAN (SEE NOTE 4)					11'-5" MAX. SPAN (SEE NOTE 4)																			
			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
WOOD	1/4" S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PARALLEL TO WOOD GRAIN	52	12	12	12	12	9	12	12	8	12	6	12	7	6	9	4	12	12	12	12	8	12	6	9	4	12	7	6	9	4	
		62	12	12	11	12	8	12	9	7	12	5	12	7	6	9	4	12	12	12	12	7	12	6	9	4	12	7	6	9	4	
		72	12	12	9	12	6	12	7	6	9	4	12	7	6	9	4	12	12	12	12	6	12	6	9	4	12	7	6	9	4	
	1/4" S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PERPENDICULAR TO WOOD GRAIN	156	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	12	12	12	6	12	6	9	4	12	7	6	9	4	
		230	12	7	6	9	4	12	7	6	9	4	12	7	6	9	4	12	12	12	12	6	12	6	9	4	12	7	6	9	4	
		52	12	12	10	12	8	12	12	7	12	5	12	7	5	9	3	12	12	12	12	7	12	6	9	4	12	7	5	9	3	
7/16" O.D. BRASS WOOD BUSHING & 1/4" x 1" PHILIPS PAN HEAD BOLT W/ 5/8" MIN. EMBEDMENT	62	12	12	9	12	6	12	9	5	12	4	12	7	5	9	3	12	12	12	12	6	12	6	7	11	4	10	3	5	4	3	
	72	12	12	7	12	5	12	7	5	9	3	12	7	5	9	3	12	12	12	12	5	11	4	6	6	3	10	3	5	4	3	
	156	12	7	5	9	3	12	7	5	9	3	12	7	5	9	3	12	12	12	12	4	10	3	5	4	3	10	3	5	4	3	
WOOD	7/16" O.D. BRASS WOOD BUSHING & 1/4" x 1" PHILIPS PAN HEAD BOLT W/ 5/8" MIN. EMBEDMENT	230	12	7	5	9	3	12	7	5	9	3	12	7	5	9	3	12	12	12	12	4	10	3	5	4	3	10	3	5	4	3
		52	12	12	10	12	6	12	6	7	11	4	10	3	5	4	3	12	12	12	12	6	12	6	7	11	4	10	3	5	4	3
		62	12	10	9	12	5	11	4	6	6	3	10	3	5	4	3	12	12	12	12	5	11	4	6	6	3	10	3	5	4	3

**PRODUCT RENEWED**

ACCEPTANCE No. 01-0228-11

EXPIRATION DATE 05/28/2006

By *Helmy A. Matar*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE MAY 28 1998  
 BY *Helmy A. Matar*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 98-0128-06