MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

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

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

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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Lawson Industries, Inc.
8501 NW 90 Street
Medley ,FL 33166

Your application for Notice of Acceptance (NOA) of:
0.050" 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.: 01-0515.09
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: 07/05/2001

Lawson Industries, Inc.

ACCEPTANCE No. : 01-0515.09

APPROVED : 07/05/2001

EXPIRES : 05/28/2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This renews the Notice of Acceptance No. 98-0120.04, which was issued on May 28, 1998. It approves 0.050" 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 0.050" Aluminum Storm Panels Shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 97-430, titled "0.050" Aluminum Storm Panel", prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E., dated January 13, 1998, last revision #1 dated April 21, 1998, sheets 1 through 3 of 3, 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 0.050" 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

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

Lawson Industries, Inc.

ACCEPTANCE No. : 01-0515.09

APPROVED : 07/05/2001

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.

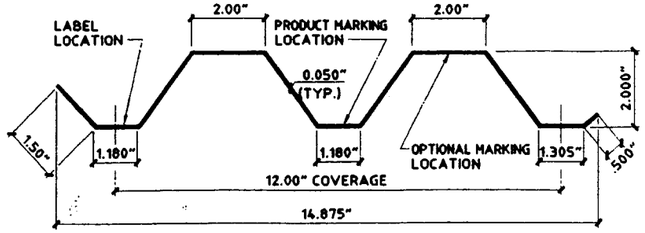
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.

9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.

END OF THIS ACCEPTANCE

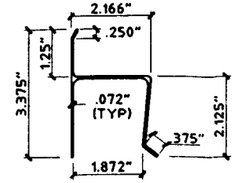
Helmy A. Makar

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



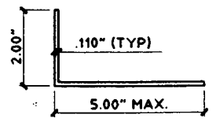
1 STORM PANEL

SCALE : 3" = 1'-0"



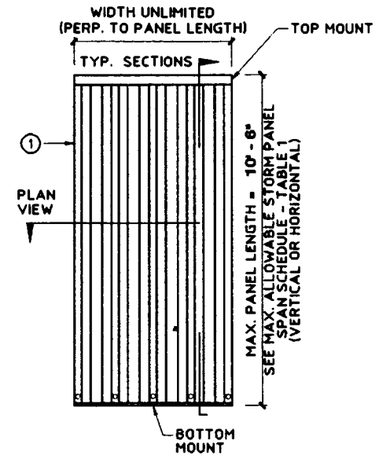
2 "h" HEADER

SCALE : 3" = 1'-0"



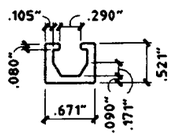
3 ANGLE

SCALE : 3" = 1'-0"



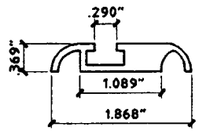
TYPICAL ELEVATION

FOR ALL INSTALLATIONS SEE TABLE 2, PAGE 3 OF 3, FOR REQUIRED MIN. STORM PANEL SEPARATION FROM GLASS.



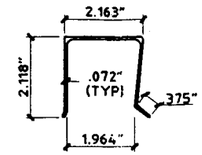
4 C-TRACK (RECESSED)

SCALE: HALF SIZE



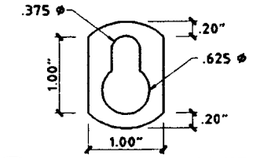
5 SURFACE TRACK

SCALE: HALF SIZE



6 "U" HEADER

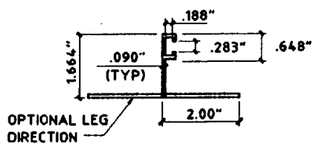
SCALE : 3" = 1'-0"



7 KEYHOLE WASHER

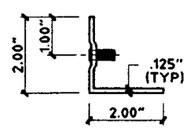
SCALE: HALF SIZE

3003-H14 ALUMINUM ALLOY



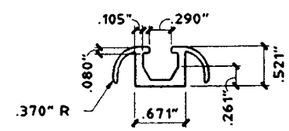
8 "F" TRACK

SCALE : 3" = 1'-0"



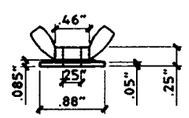
9 BASE ANGLE

SCALE : 3" = 1'-0"
6063-T5 ALUM. ALLOY



10 FINISH TRACK

SCALE: HALF SIZE



11 (ZAMAC 3 ALLOY) WASHERED WINGNUT

SCALE: HALF SIZE

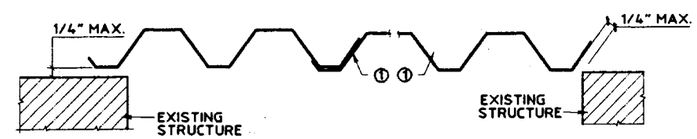
PRODUCT RENEWED

ACCEPTANCE No. 01-0515.09

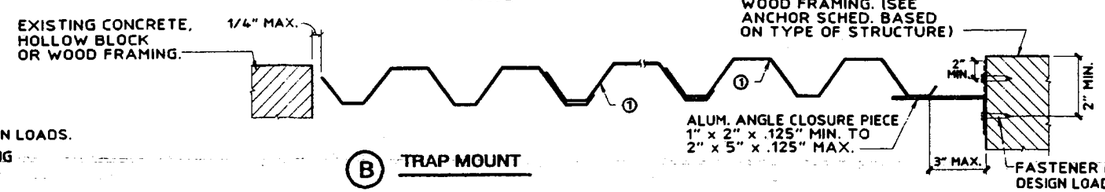
EXPIRATION DATE 05/28/2006

By Helmy A. Moker

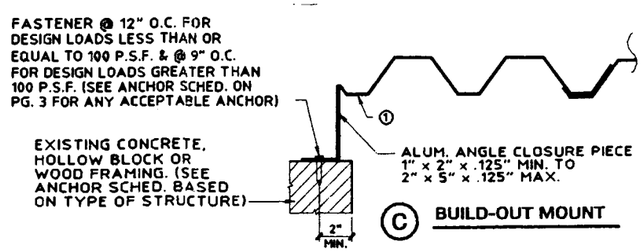
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE



A WALL MOUNT/DIRECT MOUNT



B TRAP MOUNT



C BUILD-OUT MOUNT

TYPICAL CLOSURE DETAILS (PLAN VIEWS)

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

GENERAL NOTES:

1. THIS STORM PANEL SYSTEM IS DESIGNED AND TESTED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION.
2. 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", 110 MPH WIND VELOCITY. TABLES SHALL BE REFERENCED AT APPROPRIATE DESIGN LOADS.
3. PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MIN. OF ONE MARKING PER PANEL AND SHALL BE LABELED AS FOLLOWS:

   LAWSON INDUSTRIES
   MIAMI, FLORIDA
   MIAMI-DADE COUNTY
   PRODUCT CONTROL APPROVED
4. PANELS HAVE BEEN TESTED IN ACCORDANCE WITH THE DADE COUNTY PROTOCOLS PA 201, PA 202, AND PA 203. DESIGN IS BASED ON CONSTRUCTION TESTING CORPORATION (CTC) TEST REPORT No. 97-057.
5. STORM PANELS SHALL BE 3004-H34 OR EQUAL ALUMINUM ALLOY, 0.050" THICKNESS. ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
6. ALL SCREWS, BOLTS AND WASHERS SHALL BE 2024-T4 ALUMINUM ALLOY OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI, U.O.N.
7. TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
8. HORIZONTAL MOUNTING IS PERMITTEO WITH BASE ANGLE 9, C-TRACK 4, FINISH TRACK 10, SURFACE TRACK 5, "F" TRACK 8 OR DIRECT MOUNT.
9. THE PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO SUSTAIN THE NEW SUPERIMPOSED LOADS AND TO VERIFY ALL DIMENSIONS AT THE JOB SITE BEFORE COMMENCING WITH THE WORK.
10. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. EMBEDMENT LENGTHS SHALL BE AS NOTED AND DO NOT INCLUDE STUCCO OR OTHER FINISHES.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE MAY 28 1998
BY Helmy A. Moker
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-0120.04

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.

0.050" ALUMINUM STORM PANEL

LAWSON INDUSTRIES, INC
MANUFACTURERS OF WINDOWS & DOORS
7030 N.W. 37th CT.
MIAMI, FLORIDA 33147
(305) 696-8880

revisions			
no	date	by	description
1	04/21/98	VJK	BCCO REVISIONS

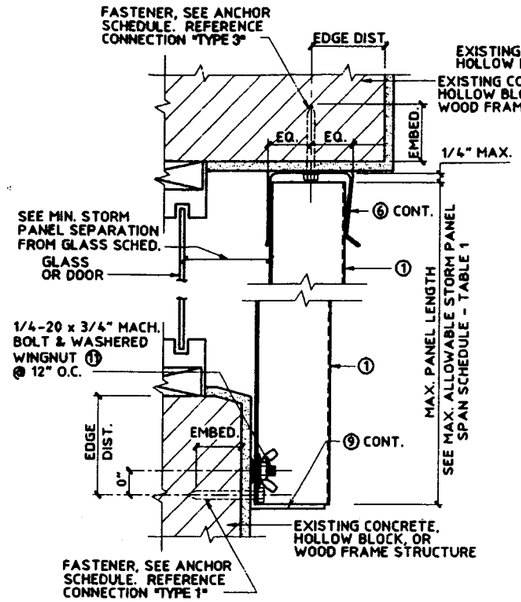
V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0010983

APR 21 1998

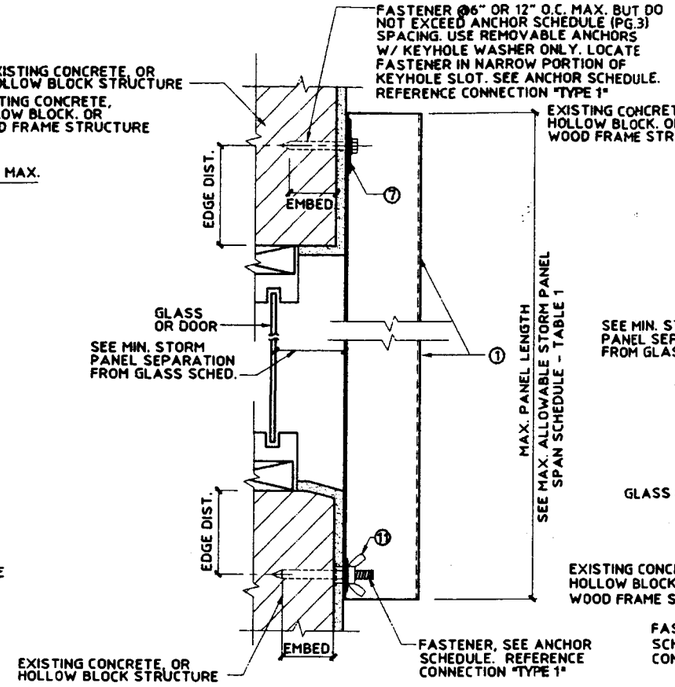
date 01/13/98	
scale AS NOTED	drawn by MC
design by VJK	checked by VJK

drawing no. 97-430

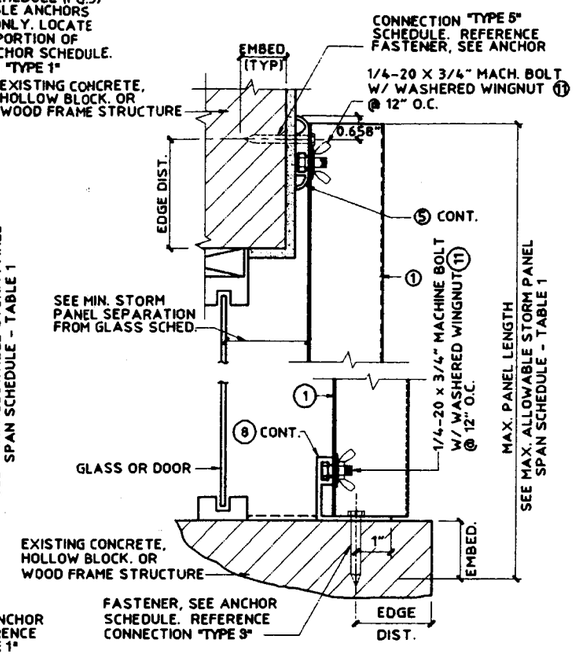
sheet 1 of 3



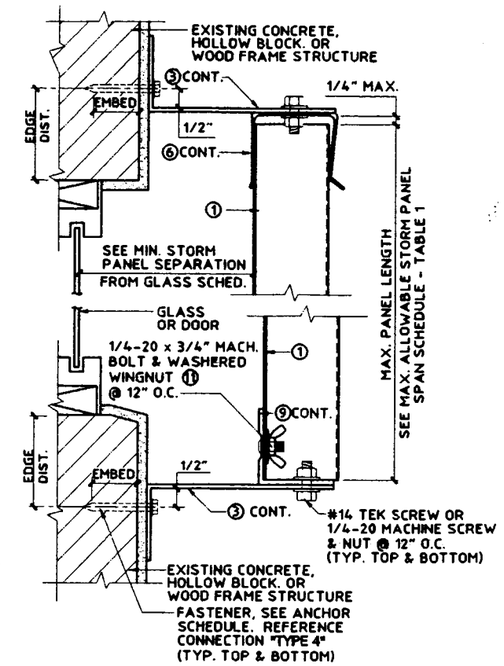
CEILING MOUNT/ WALL MOUNT SECTION
("U" HEADER/STUD ANGLE SILL)
Ⓐ SCALE : 3" = 1'-0"



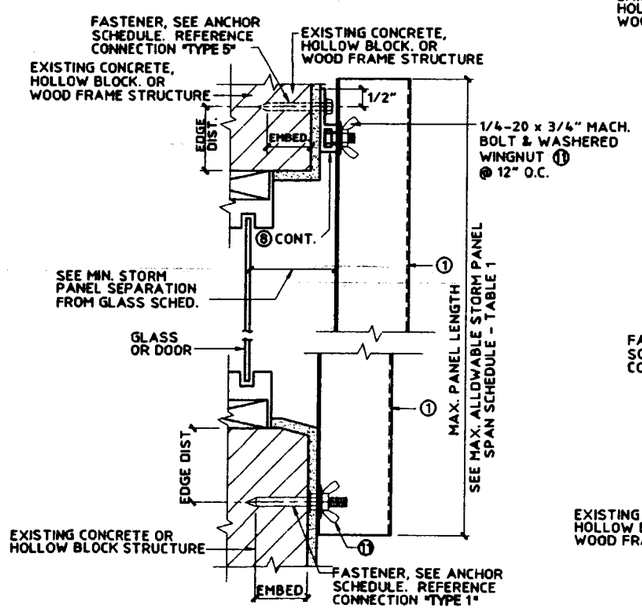
WALL MOUNT SECTION
(DIRECT MOUNT)
Ⓑ SCALE : 3" = 1'-0"



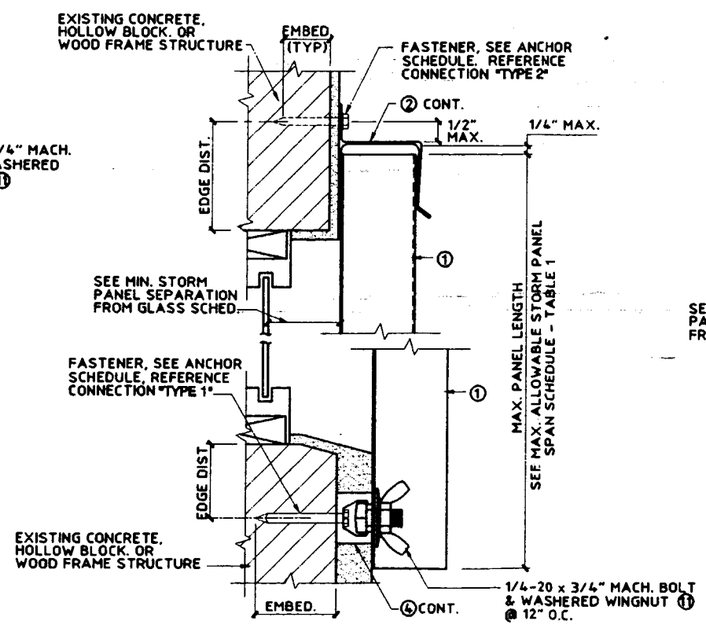
WALL MOUNT SECTION
(SURFACE TRACK/STUD ANGLE SILL)
Ⓒ SCALE : 3" = 1'-0"



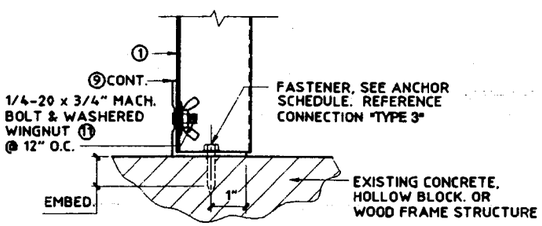
BUILD-OUT WALL MOUNT SECTION
("U" HEADER/STUD ANGLE SILL)
Ⓓ SCALE : 3" = 1'-0"



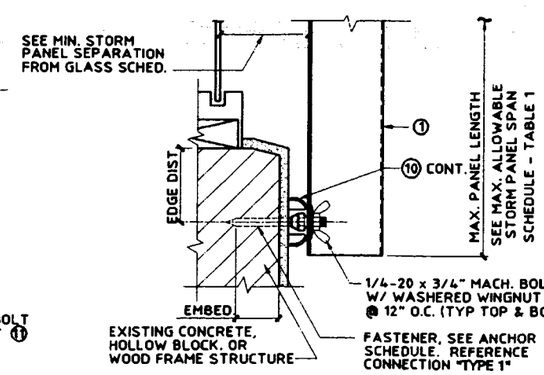
WALL MOUNT SECTION
("F" TRACK/DIRECT MOUNT)
Ⓔ SCALE : 3" = 1'-0"



WALL MOUNT SECTION
("h" HEADER/C-TRACK)
Ⓕ SCALE : 3" = 1'-0"



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



WALL MOUNT SECTION
(FINISH TRACK)
Ⓗ SCALE : 3" = 1'-0"

PRODUCT RENEWED
ACCEPTANCE No. 01-0515.09
EXPIRATION DATE 05/28/2006
By Helmy A. Moker
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE MAY 28 1998
BY Helmy A. Moker
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-0120.04

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.

0.050" ALUMINUM STORM PANEL

LAWSON INDUSTRIES,INC
MANUFACTURERS OF WINDOWS & DOORS
7030 N.W. 37th CT.
MIAMI, FLORIDA 33147
(305) 696-8860

revisions			
no	date	by	description
1	04/21/98	VJK	BCCO REVISIONS

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0070983

APR 21 1998

date 01/13/98	
scale AS NOTED	drawn by MC
design by VJK	checked by VJK
drawing no. 97-430	
sheet 2 of 3	

04/21/98 11:42

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'-8" (SEE NOTE 1)					SPANS UP TO 10'-6" (SEE NOTE 1)					SPANS UP TO 5'-6" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 10'-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
MIN. 3,000 PSI CONCRETE	1/4"⊗ ELCO MALE/FEMALE "PANELMATE" W/ 1-1/4" MIN. EMBED. & 1/4-20 MACHINE SCREW / NUT	48	12	12	10	12	12	12	7	6	12	12	12	5	5	12	12	12	12	11	12	12	12	7	7	12	12	12	5	6	12	12
		62	12	12	8	12	12	12	4	5	12	12	12	4	5	12	12	12	12	9	12	12	12	4	5	12	12	12	4	5	12	12
		72	12	8	6	12	12	12	4	5	12	12	12	4	5	12	12	12	12	8	7	12	12	12	4	5	12	12	12	4	5	12	12
		92	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12	12	12	5	6	12	12	12	4	5	12	12	12	4	5	12	12
		200	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12	12	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12
	1/4"⊗ RAWL CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 S.S. MACHINE SCREW	48	12	12	12	12	12	12	12	9	12	12	12	10	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
		62	12	12	12	12	12	12	9	7	12	12	12	9	7	12	12	12	12	12	12	12	12	11	12	12	12	12	11	12	12	12
		72	12	12	10	12	12	12	9	7	12	12	12	9	7	12	12	12	12	12	12	12	12	11	12	12	12	12	11	12	12	12
		92	12	10	8	12	12	12	9	7	12	12	12	9	7	12	12	12	12	12	12	12	12	11	12	12	12	12	11	12	12	12
		200	12	9	7	12	12	12	9	7	12	12	12	9	7	12	12	12	11	12	12	12	12	11	12	12	12	12	11	12	12	12
	1/4"⊗ ZAMAC NAIL-IN W/ 1-1/8" EMBEDMENT	48	12	12	11	12	12	12	7	7	12	12	12	5	6	12	12	12	12	12	12	12	12	8	8	12	12	12	5	7	12	12
		62	12	12	9	12	12	12	4	5	12	12	12	4	5	12	12	12	12	10	12	12	12	5	7	12	12	12	5	7	12	12
		72	12	8	7	12	12	12	4	5	12	12	12	4	5	12	12	12	9	9	12	12	12	5	7	12	12	12	5	7	12	12
		92	12	5	6	12	12	12	4	5	12	12	12	4	5	12	12	12	5	7	12	12	12	5	7	12	12	12	5	7	12	12
		200	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12	12	5	7	12	12	12	5	7	12	12	12	5	7	12	12
	1/4"⊗ ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12	12	12	12	12	12	9	8	12	12	12	6	7	12	12	12	12	12	12	12	12	10	10	12	12	12	7	8	12	12
		62	12	12	10	12	12	12	5	6	12	12	12	5	6	12	12	12	12	12	12	12	12	6	8	12	12	12	6	8	12	12
		72	12	10	9	12	12	12	5	6	12	12	12	5	6	12	12	12	12	11	12	12	12	6	8	12	12	12	6	8	12	12
		92	12	6	7	12	12	12	5	6	12	12	12	5	6	12	12	12	7	8	12	12	12	6	8	12	12	12	6	8	12	12
		200	12	5	6	12	12	12	5	6	12	12	12	5	6	12	12	12	6	8	12	12	12	6	8	12	12	12	6	8	12	12
	3/16"⊗ ITW TAPCON W/ 1-1/2" MIN. EMBED.	48	12	12	8	12	12	12	7	5	12	12	12	4	4	12	12	12	12	11	12	12	12	8	7	12	12	12	5	5	12	12
		62	12	12	6	12	12	11	4	4	11	11	11	4	4	11	11	12	12	8	12	12	12	4	5	12	12	12	4	5	12	12
		72	12	8	5	12	12	11	4	4	11	11	11	4	4	11	11	12	9	7	12	12	12	4	5	12	12	12	4	5	12	12
		92	11	4	4	11	11	11	4	4	11	11	11	4	4	11	11	12	5	5	12	12	12	4	5	12	12	12	4	5	12	12
		200	11	4	4	11	11	11	4	4	11	11	11	4	4	11	11	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12
HOLLOW CONCRETE BLOCK	1/4"⊗ ELCO MALE/FEMALE "PANELMATE" W/ 1-1/4" MIN. EMBED. & 1/4-20 MACHINE SCREW / NUT	48	12	12	10	12	12	12	7	6	12	12	12	5	5	12	12	12	12	11	12	12	12	7	7	12	12	12	5	6	12	12
		62	12	12	8	12	12	12	4	5	12	12	12	4	5	12	12	12	12	9	12	12	12	4	5	12	12	12	4	5	12	12
		72	12	8	6	12	12	12	4	5	12	12	12	4	5	12	12	12	12	8	7	12	12	12	4	5	12	12	12	4	5	12	12
		92	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12	12	12	5	6	12	12	12	4	5	12	12	12	4	5	12	12
		200	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12	12	12	4	5	12	12	12	4	5	12	12	12	4	5	12	12
	1/4"⊗ RAWL CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 S.S. MACHINE SCREW	48	12	12	8	12	12	12	6	5	12	12	11	4	4	11	11	12	12	12	12	12	12	8	8	12	12	12	5	6	12	12
		62	12	12	6	12	12	10	3	4	10	10	10	3	4	10	10	12	12	10	12	12	12	4	6	12	12	12	4	6	12	12
		72	12	7	5	12	12	10	3	4	10	10	10	3	4	10	10	12	9	8	12	12	12	4	6	12	12	12	4	6	12	12
		92	11	4	4	11	11	10	3	4	10	10	10	3	4	10	10	12	5	6	12	12	12	4	6	12	12	12	4	6	12	12
		200	10	3	4	10	10	10	3	4	10	10	10	3	4	10	10	12	4	6	12	12	12	4	6	12	12	12	4	6	12	12
	1/4"⊗ ZAMAC NAIL-IN W/ 1-1/8" EMBEDMENT	48	12	12	8	12	12	10	4	5	10	10	8	3	4	8	8	12	12	10	12	12	11	5	6	11	11	9	3	5	9	9
		62	12	9	6	12	12	7		4	7	7	7		4	7	7	12	10	7	12	12	8	3	4	8	8	8	3	4	8	8
		72	10	5	5	10	10	7		4	7	7	7		4	7	7	11	6	6	11	11	8	3	4	8	8	8	3	4	8	8
		92	8	3	4	8	8	7		4	7	7	7		4	7	7	9	3	5	9	9	8	3	4	8	8	8	3	4	8	8
		200	7		4	7	7	7		4	7	7	7		4	7	7	8	3	4	8	8	8	3	4	8	8	8	3	4	8	8
	1/4"⊗ ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12	12	8	12	12	10	5	5	10	10	8	3	4	8	8	12	12	9	12	12	11	5	6	11	11	9	3	5	9	9
		62	12	9	6	12	12	8	3	3	8	8	8	3	3	8	8	12	10	7	12	12	9	3	4	9	9	9	3	4	9	9
		72	11	5	5	11	11	8	3	3	8	8	8	3	3	8	8	12	6	6	12	12	9	3	4	9	9	9	3	4	9	9
		92	8	3	4	8	8	8	3	3	8	8	8	3	3	8	8	9	3	5	9	9	9	3	4	9	9	9	3	4	9	9
		200	8	3	3	8	8	8	3	3	8	8	8	3	3	8	8	9	3	4	9	9	9	3	4	9	9	9	3	4	9	9
	3/16"⊗ ITW TAPCON W/ 1-1/4" MIN. EMBED.	48	9	9	4	9	9	6	3	3	6	6	5			5	5	10	10	5	10	10	6	3	3	6	6	5		3	5	5
		62	7	5	3	7	7	4			4	4	4			4	4	8	6	4	8	8	5			5	5	5			5	5
		72	6	3	3	6	6	4			4	4	4			4	4	7	3	3	7	7	5			5	5	5			5	5
		92	5			5	5	4			4	4	4			4	4	5		3	5	5	5			5	5	5			5	5
		200	4			4	4	4			4	4	4			4	4	5			5	5	5			5	5	5			5	5

TABLE 2 — MINIMUM STORM PANEL SEPARATION FROM GLASS

POSITIVE DESIGN LOAD (W) (PSF)	ACTUAL SPAN (L) (FT - IN)	COLUMN 1 MIN. SEPARATION FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	COLUMN 2 MIN. SEPARATION FOR ALL INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
30.0	3 - 0	3-1/8	1-1/4
	6 - 0	3-1/8	1-3/8
	8 - 8	3-1/8	1-7/8
	10 - 6	3-1/2	2-3/4
40.0	3 - 0	3-1/8	1-1/4
	6 - 0	3-1/8	1-1/2
	8 - 8	3-1/8	2-1/8
	10 - 1	3-1/2	3
50.0	3 - 0	3-1/8	1-1/4
	6 - 0	3-1/8	1-1/2
	7 - 0	3-1/8	1-3/4
	9 - 7	3-1/2	3
60.0	3 - 0	3-1/8	1-1/4
	6 - 0	3-1/8	1-1/2
	7 - 0	3-1/8	1-7/8
	8 - 10	3-1/2	2-3/4
70.0	3 - 0	3-1/8	1-1/4
	6 - 0	3-1/8	1-5/8
	7 - 0	3-1/8	1-7/8
	7 - 7	3-1/8	2-1/4

NOTES:

1. SITE SPECIFIC WIND LOAD CALCULATION BY PROFESSIONAL ENGINEER.
2. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. ALLOWABLE STORM PANEL SPAN. POSITIVE LOADS LESS THAN OR EQUAL TO THE NEGATIVE LOADS ARE ACCEPTABLE.
3. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE MAX. ALLOWABLE STORM PANEL SPANS.
4. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. STORM PANEL SEPARATION FROM GLASS.

TABLE 1 — MAXIMUM ALLOWABLE STORM PANEL SPAN SCHEDULE

NEG. DESIGN LOAD (PSF)	SPAN (FT - IN)
30.0	10 - 6
32.0	10 - 6
34.0	10 - 6
36.0	10 - 5
38.0	10 - 3
40.0	10 - 1
42.0	10 - 0
44.0	9 - 10
46.0	9 - 9
48.0	9 - 8
50.0	9 - 7
60.0	8 - 10
70.0	7 - 7
80.0	6 - 8
90.0	5 - 11
100.0	5 - 4
110.0	4 - 10
120.0	4 - 5
130.0	4 - 1
140.0	3 - 9
150.0	3 - 6
160.0	3 - 4
170.0	3 - 1
180.0	2 - 11
190.0	2 - 9
200.0	2 - 8
210.0	2 - 6
220.0	2 - 5
230.0	2 - 3
240.0	2 - 2

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'-8" (SEE NOTE 1)					SPANS UP TO 10'-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
WOOD	1/4"⊗ S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PARALLEL TO WOOD GRAIN	48	12	12	12	12	12	12	12	8	12	12	12	10	7	12	12
		62	12	12	10	12	12	12	9	6	12	12	12	9	6	12	12
		72	12	12	9	12	12	12	9	6	12	12	12	9	6	12	12
		92	12	10	7	12	12	12	9	6	12	12	12	9	6	12	12
		200	12	9	6	12	12	12	9	6	12	12	12	9	6	12	12
	1/4"⊗ S.S. LAG SCREW W/ 1-3/4" MIN. THREAD EMBEDMENT SHEAR PERPENDICULAR TO WOOD GRAIN	48	12	12	10	12	12	12	12	6	12	12	12	10	5	12	12
		62	12	12	8	12	12	12	9	5	12	12	12	9	5	12	12
		72	12	12	7	12	12	12	9	5	12	12	12	9	5	12	12
		92	12	10	5	12	12	12	9	5	12	12	12	9	5	12	12
		200	12	9	5	12	12	12	9	5	12	12	12	9	5	12	12

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR ANCHOR MATERIAL, ANCHOR TYPE AND EDGE DISTANCE SPACING ONLY. ALLOWABLE SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE1, SHEET 3.
2. ENTER TABLE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE.
3. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON BUILDING AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
4. REFERENCE SPACING FROM APPROPRIATE CONNECTION TYPE. SEE CONNECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
6. 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.
7. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
8. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK, OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
9. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
10. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
11. MINIMUM ENGAGEMENT OF 1/4-20 MACHINE BOLT TO EMBEDDED CALK-IN SHALL BE 1/2".

⊗ DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.

PRODUCT RENEWED

ACCEPTANCE No. 01-0515.09

EXPIRATION DATE 05/28/2006

By Helmy A. Moh

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE MAY 28 1998

BY Helmy A. Moh

PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 98-0120.04

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.

0.050" ALUMINUM STORM PANEL

LAWSON INDUSTRIES, INC.
MANUFACTURERS OF WINDOWS & DOORS
7030 N.W. 37th CT.
MIAMI, FLORIDA 33147
(305) 691-8000

revisions			
no	date	by	description
1	04/21/98	VJK	BCCO REVISIONS

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

APR 21 1998

date 01/13/98	
scale AS NOTED	drawn by MC
design by VJK	checked by VJK
drawing no. 97-430	
sheet 3 of 3	

04/21/98 12:08