



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

PRODUCT CONTROL NOTICE OF ACCEPTANCE

Florida Storm Panels, Inc.
14475 N.W. 26th Avenue
Opa Locka FL 33054

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

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

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

Your application for Product Approval of:

20 GA. Galvanized Steel 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 approval shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at anytime 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 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.: 99-0804.01

Expires: 01/04/2003

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 Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director

Miami-Dade County
Building Code Compliance Office

Approved: 01/21/2000

1 of 3



Florida Storm Panels, Inc.

ACCEPTANCE No. : 99-0804.01
APPROVED : JAN 21 2000
EXPIRES : January 4, 2003

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

This revises and renews the Notice of Acceptance No. 99-0105.03, which was issued on February 5, 1999. It approves a 20 gauge 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 20 gauge galvanized steel storm panels shutter and its components shall be constructed in strict compliance with the following documents: Drawing No. 99-097, titled "20 Ga. Galvanized Steel Storm Panel", prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #2 dated December 23, 1999, sheets 1 through 4 of 4, signed and sealed by V. J. Knezevich, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

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

4. INSTALLATION

This 20 gauge 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".

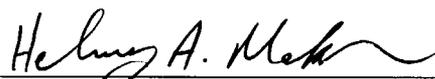
6. BUILDING PERMIT REQUIREMENTS

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

Florida Storm Panels, Inc.

ACCEPTANCE No. : 99-0804.01

APPROVED : JAN 21 2000

EXPIRES : January 4, 2003

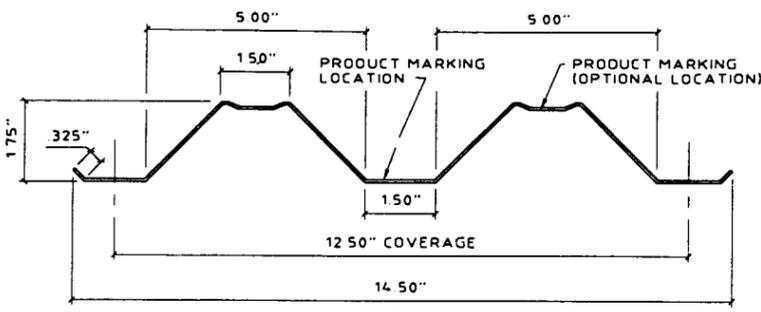
NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

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.

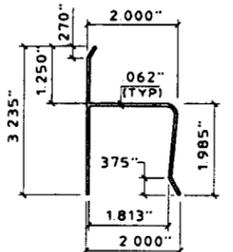
END OF THIS ACCEPTANCE



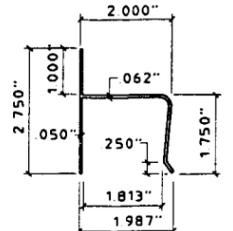
Helmy A. Makar, P.E. -Product Control Examiner
Product Control Division



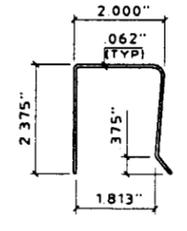
1 STORM PANEL
SCALE: 3" = 1'-0"



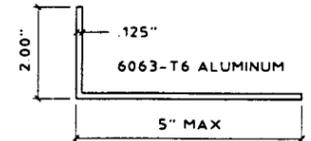
2 "h" HEADER
SCALE: 3" = 1'-0"



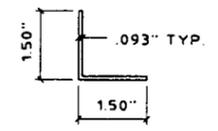
3 "h" HEADER
SCALE: 3" = 1'-0"



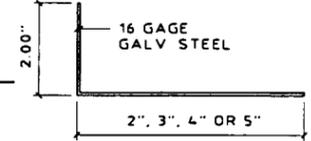
4 "U" HEADER
SCALE: 3" = 1'-0"



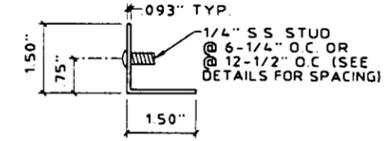
5a ANGLE
SCALE: 3" = 1'-0"



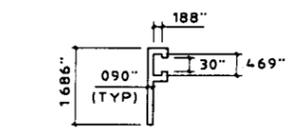
6 ANGLE
SCALE: 3" = 1'-0"



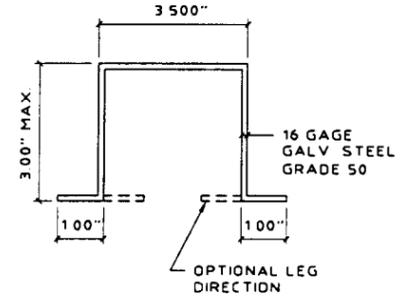
5 ANGLE
SCALE: 3" = 1'-0"



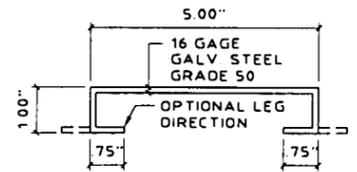
7 STUDDED ANGLE
SCALE: 3" = 1'-0"



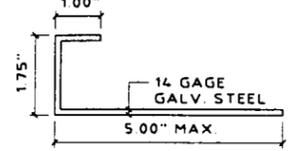
8 "F" TRACK
SCALE: HALF SIZE



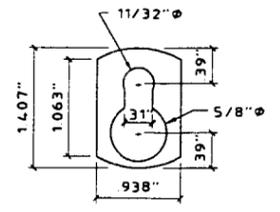
10 STANDARD CHANNEL
SCALE: HALF SIZE



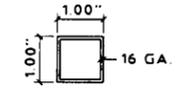
11 SOFFIT CHANNEL
SCALE: HALF SIZE



12 CLOSURE
SCALE: 3" = 1'-0"



13 KEYHOLE WASHER
SCALE: HALF SIZE



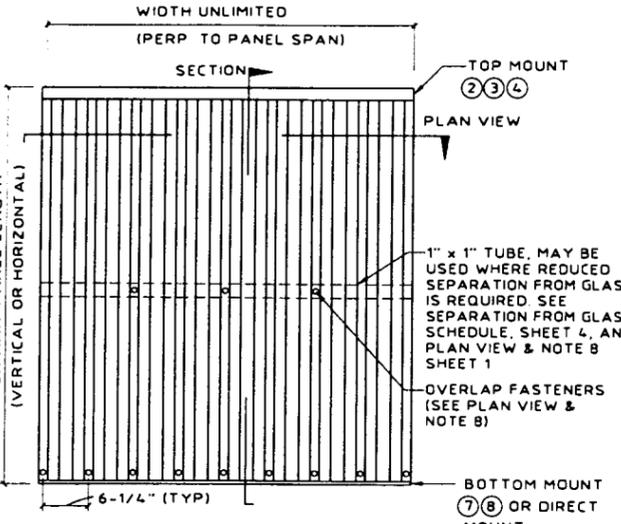
14 STEEL TUBE
SCALE: 3" = 1'-0"

GENERAL NOTES:

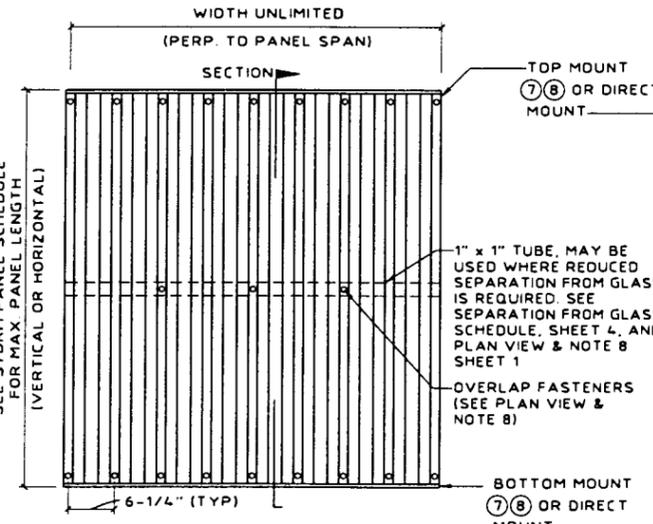
- THIS SHUTTER SYSTEM IS DESIGNED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
- POSITIVE AND NEGATIVE DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED FOR SPECIFIC JOBS IN ACCORDANCE WITH ASCE 7-98 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." TABLES SHALL BE REFERENCED AT APPROPRIATE DESIGN LOADS.
- STORM PANELS SHALL BE 20 GAUGE STEEL (t = .035") CONFORMING TO ASTM A653, STRUCTURAL QUALITY, GRADE 40, G 60 GALVANIZED COATING, WITH A MINIMUM F_y = 46.7 KSI. ALUMINUM ALLOY 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 AND SHALL BE LABELED AS FOLLOWS:

FLORIDA STORM PANELS, INC.
OPA LOCKA, FL
DADE COUNTY PRODUCT CONTROL APPROVED
- ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
- MATERIAL SPECIFICATIONS NOTED HEREIN ARE THE MANUFACTURER'S REPRESENTATION OF MATERIALS TO BE USED IN PRODUCT TESTING.
- TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE.
- PANELS UTILIZING A STEEL TUBE SHALL BE FASTENED TO OVERLAPS AT MIDSPAN TO A 1" x 1" x 16 GAGE STEEL TUBE USING 1/4-20 x 3-1/2" BOLTS W/ OIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS (SEE TYPICAL ELEVATION (5) & (16)). PANELS NOT UTILIZING STEEL TUBE SHALL BE FASTENED AT MIDSPAN W/ 1/4-20 x 1" BOLTS WITH OIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS (SEE TYPICAL ELEVATION (15) & (16)) FOR PANEL SPANS LESS THAN 33" OVERLAP FASTENERS & TUBE ARE NOT REQUIRED NO STEEL TUBE AND OR FASTENERS ARE REQUIRED FOR TYPICAL ELEVATION (17)
- THE DETAILS AND SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED FOR IMPACT, CYCLIC AND UNIFORM STATIC AIR PRESSURE IN CONFORMANCE WITH DADE COUNTY PROTOCOLS PA 201,202, AND 203.
DESIGN BASED ON CONSTRUCTION TESTING CORPORATION (CTC)
TEST REPORTS No. 95-032 AND No. 96-009
- A WARNING NOTE SHALL BE PERMANENTLY PLACED ON EITHER THE SILL OF THE SHUTTERS OR ON EACH PANEL ADVISING THE HOME OWNER OR TENANT THAT THE "STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS AND/OR BARS ARE PROPERLY INSTALLED, WHEN REQUIRED"

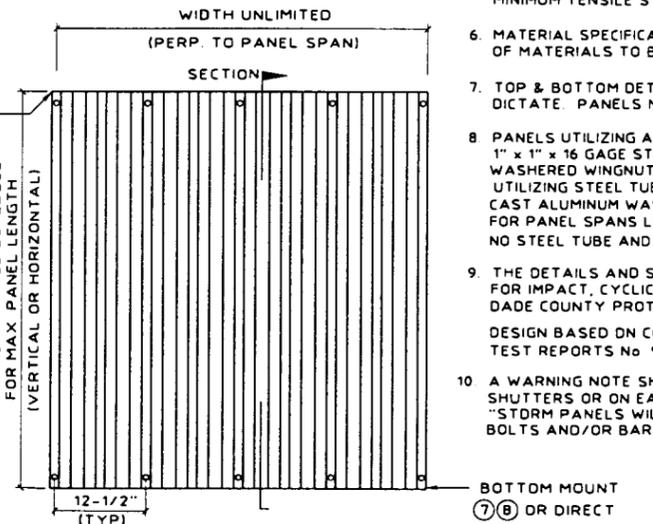
9 WINGNUT
SCALE: HALF SIZE



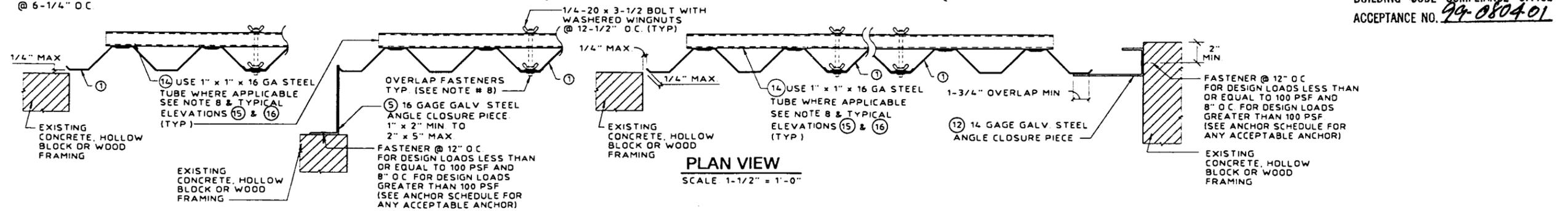
15 TYPICAL ELEVATION (SYSTEM 1)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED TOP MOUNTS SHALL BE "h" OR "U" HEADERS. BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.



16 TYPICAL ELEVATION (SYSTEM 2)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.



17 TYPICAL ELEVATION (SYSTEM 3)
NO OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 12-1/2" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 12-1/2" O.C.



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

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE: *January 21, 2000*
BY: *Helmut A. M...*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. *99-080401*



KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2889
WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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20 GA. GALVANIZED STEEL STORM PANEL
FLORIDA STORM PANELS, INC.
14475 N.W. 26th AVE.
OPA LOCKA, FL 33054
ph(305) 685-9000 • fx(305) 685-7511

NO.	DATE	BY	DESCRIPTION
1	07/19/99	JP	PREV. DRAWING NO. 95-498
2	12/23/99	JP	COUNTY COMMENTS

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No. PE 000983

DEC 29 1999
date: 07/19/99
scale: AS NOTED
design by: VJK
checked by: VJK
drawing no.: **99-097**
sheet 1 of 4



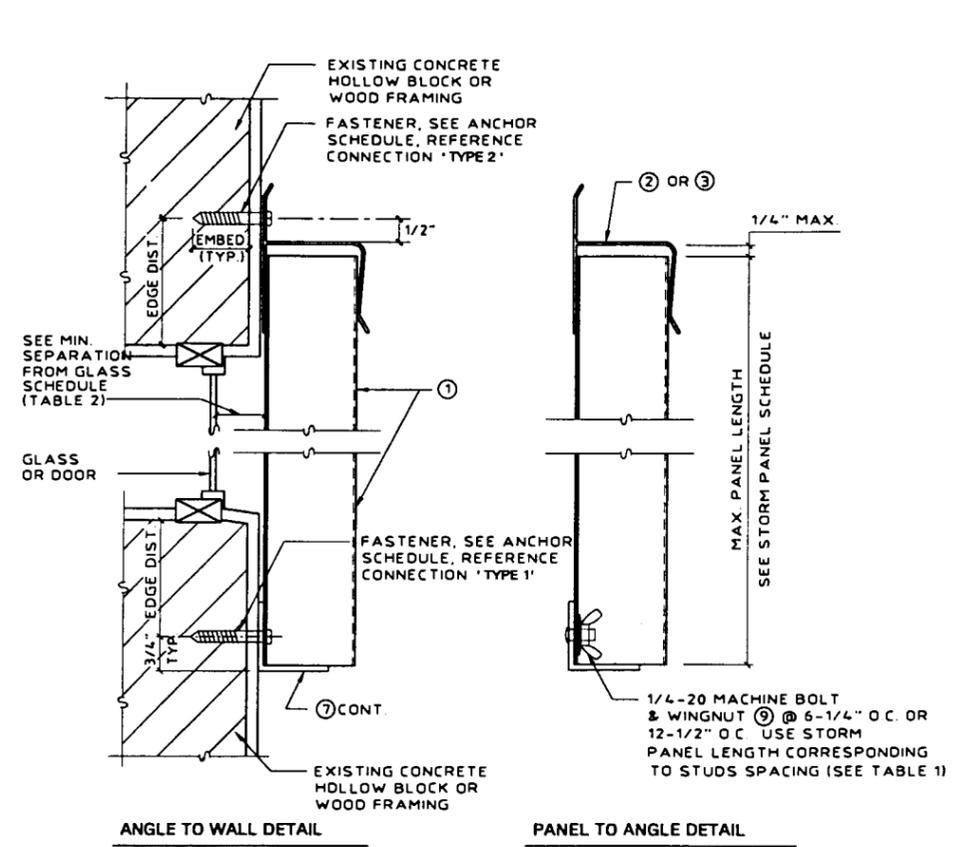
KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2898
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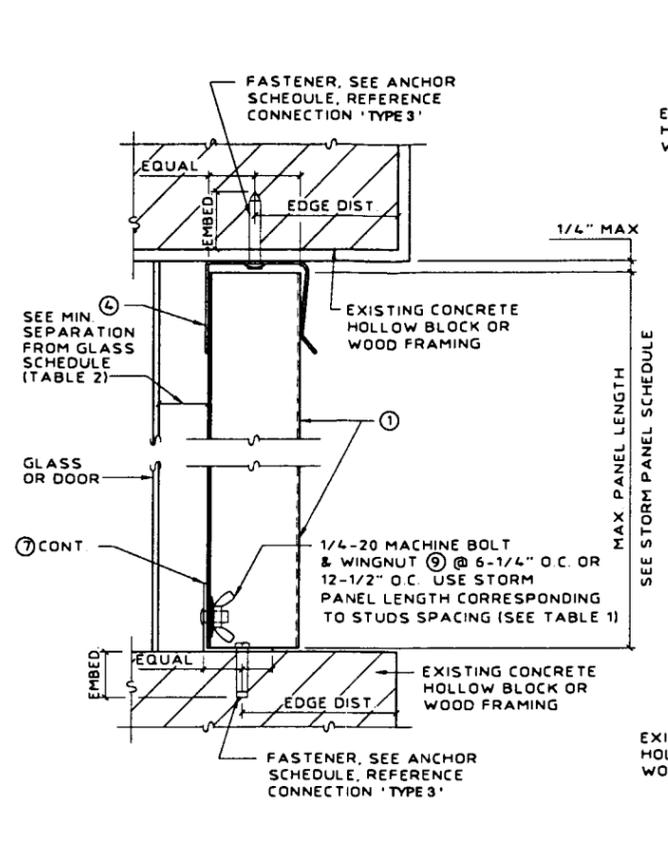
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2	12/23/99		JPK		

V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
 FL License No: PE 0010983
 DATE: *January 21, 2000*
 BY: *Harvey A. Miller*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. *99-0804-01*

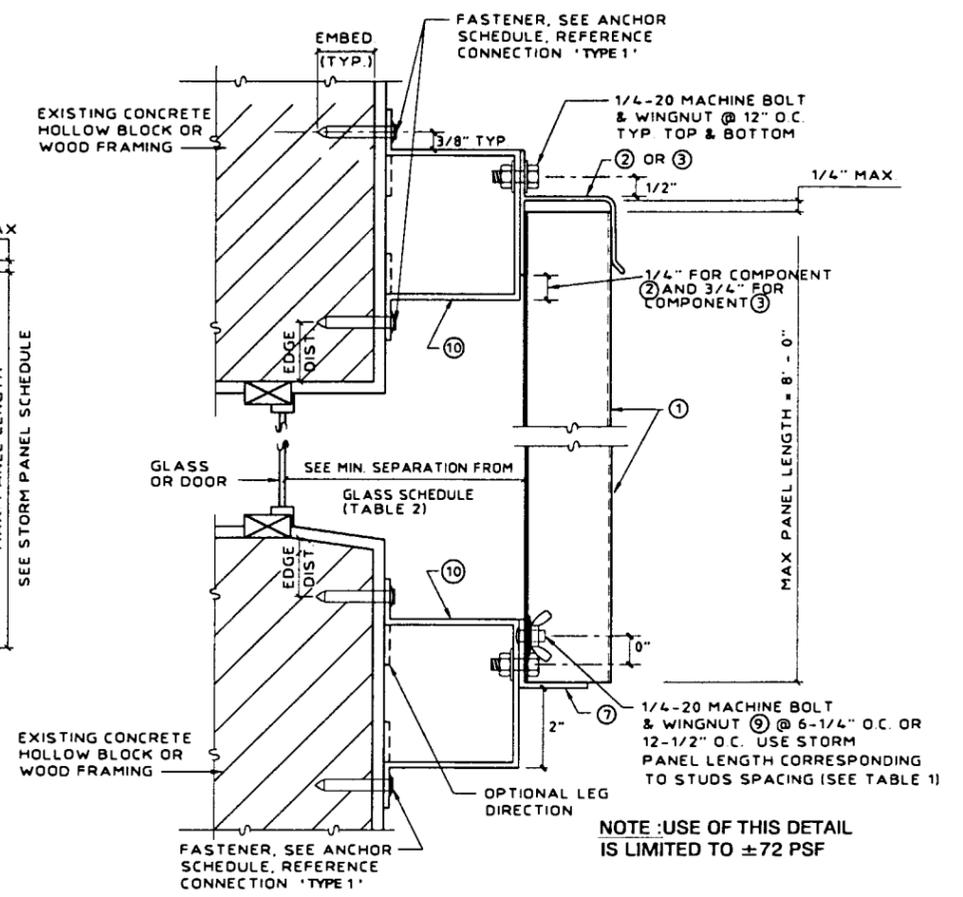
DEC 29 1999
 date 07/19/99
 scale AS NOTED drawn by MC
 design by VJK checked by VJK
 drawing no. 99-097
 sheet 2 of 4



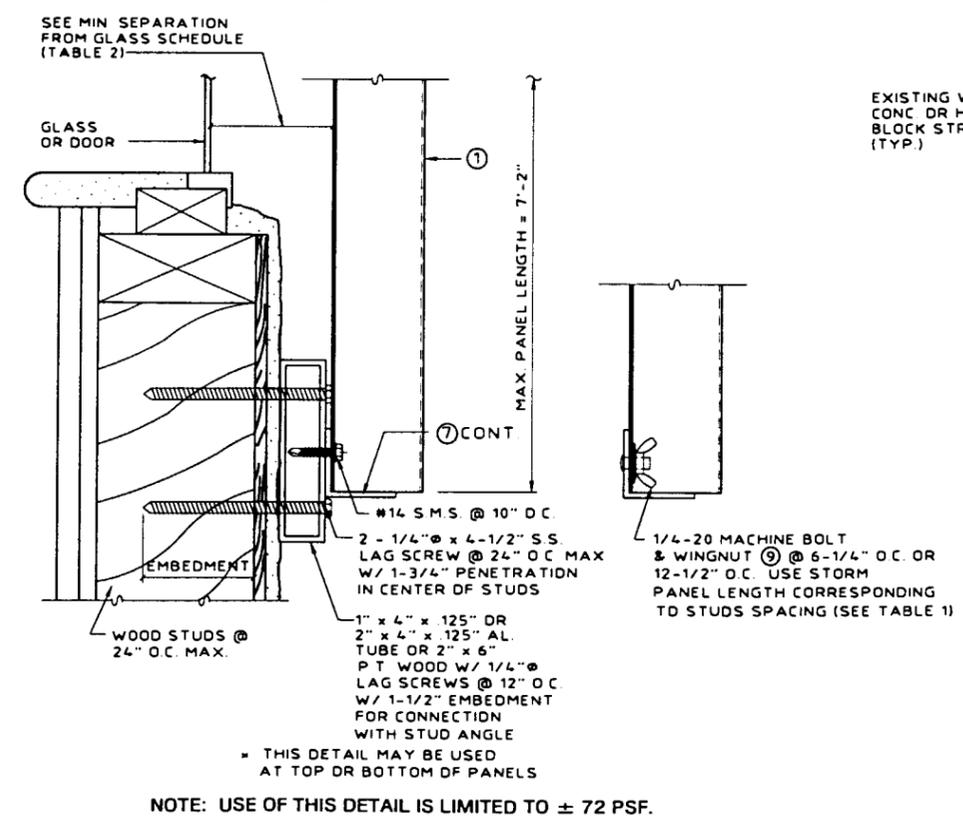
A WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



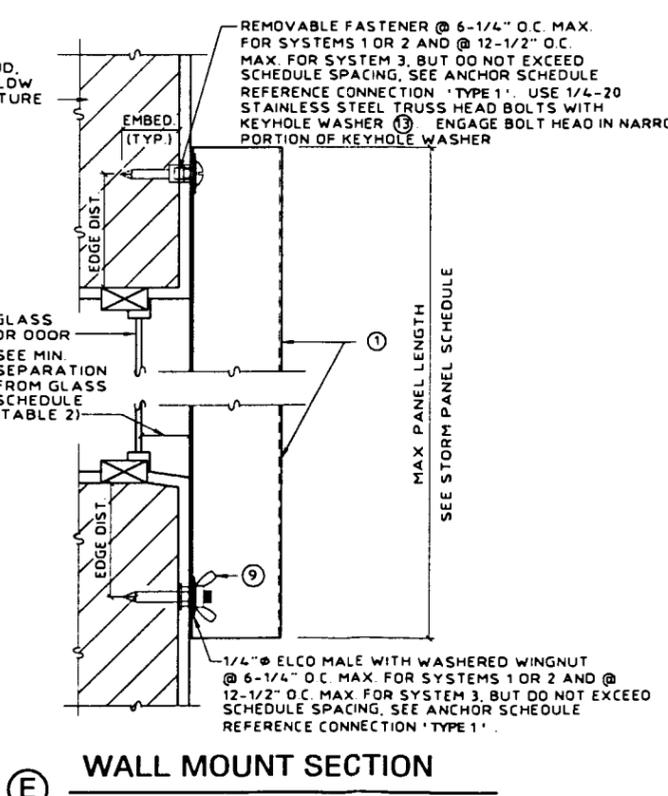
B CEILING/INSIDE MOUNT SECTION
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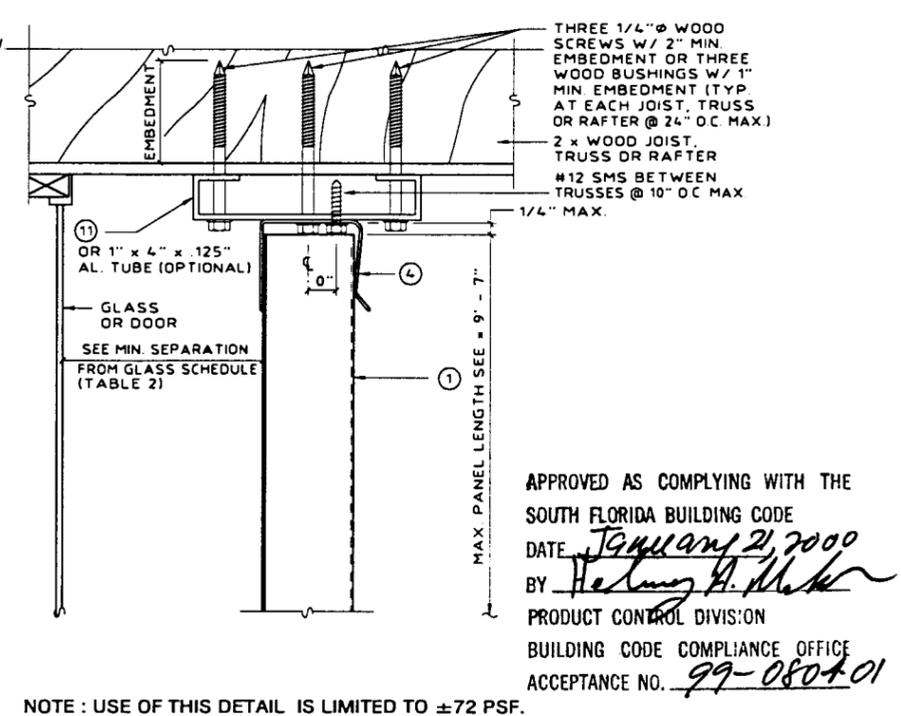
C BUILD-OUT MOUNT SECTION
 SCALE: 3" = 1'-0"



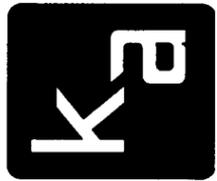
D WALL MOUNT SECTION (BOTTOM)
 SCALE: 3" = 1'-0"



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



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



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CONSULTING ENGINEERS • PRODUCT TESTING
1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
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WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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FLORIDA STORM PANELS, INC.
14475 N.W. 26th AVE.
OPA LOCKA, FL 33054
ph(305) 685-9000 • fx(305) 685-7511

REVISIONS	
no.	description
1	07/19/99 JP PREV. DRAWING NO. 95-499
2	12/23/99 JP COUNTY COMMENTS

V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE 0010983
BY *William A. Miller*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 99-0804-01

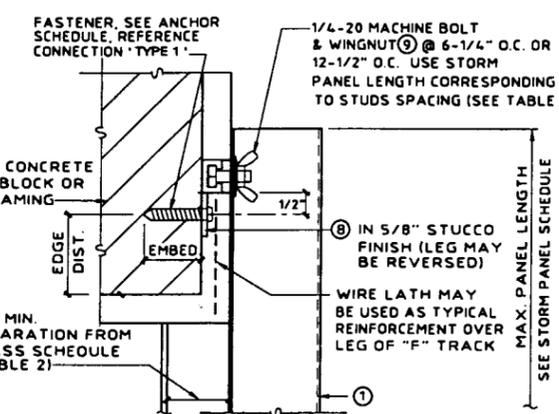
date 07/19/99
scale AS NOTED drawn by MC
design by VJK checked by VJK
drawing no. 99-097
sheet 3 of 4

STORM PANEL SCHEDULE

TABLE 1 NEGATIVE DESIGN LOAD (W) (P.S.F.)	SYSTEM 1	SYSTEM 2	SYSTEM 3
	OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP MOUNTS SHALL BE "h" OR "U" HEADERS. BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.	OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.	NO OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 12-1/2" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 12-1/2" O.C.
	MAX. PANEL LENGTH (FT. - IN.)	MAX. PANEL LENGTH (FT. - IN.)	MAX. PANEL LENGTH (FT. - IN.)
30.0	11 - 0	11 - 0	8 - 8
40.0	11 - 0	11 - 0	8 - 8
50.0	10 - 6	10 - 6	8 - 8
60.0	10 - 1	10 - 1	8 - 8
70.0	9 - 8	9 - 9	8 - 8
80.0	8 - 7	9 - 5	8 - 1
90.0	7 - 8	9 - 1	7 - 2
100.0	6 - 10	8 - 9	6 - 6
110.0	6 - 3	8 - 4	5 - 10
120.0	5 - 9	7 - 11	5 - 5
130.0	5 - 3	7 - 8	5 - 0
140.0	4 - 11	7 - 4	4 - 7
150.0	4 - 7	7 - 1	4 - 3
160.0	4 - 3	6 - 11	4 - 0
170.0	4 - 0	6 - 8	3 - 9
180.0	3 - 10	6 - 6	3 - 7
190.0	3 - 7	6 - 3	3 - 5
200.0	3 - 5	5 - 11	3 - 3
210.0	3 - 3	5 - 8	3 - 1
220.0	3 - 2	5 - 5	2 - 11
230.0	3 - 0	5 - 2	2 - 9

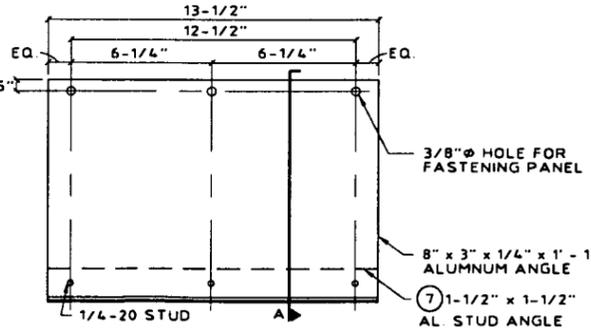
H "F" TRACK CONNECTION TO EXISTING STRUCTURE DETAIL

SCALE: 3" = 1'-0"



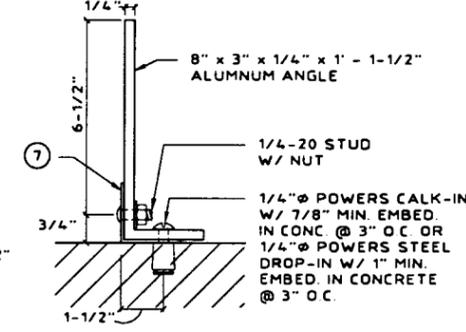
I "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL

SCALE: 3" = 1'-0"



INTERIOR FASTENING ANGLE ASSEMBLY

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

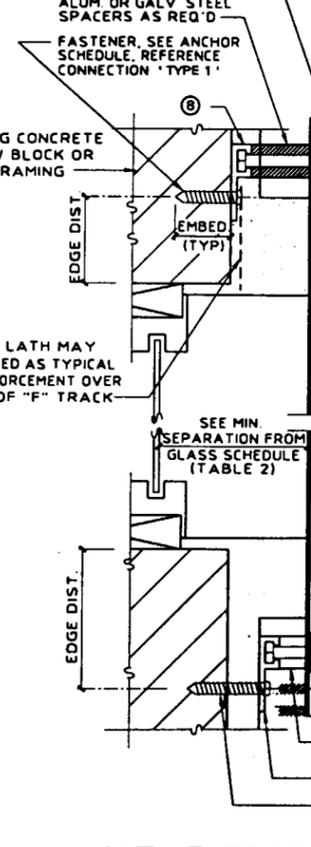


INTERIOR FASTENING ANGLE ASSEMBLY (SECTION A)

SCALE: N.T.S.

G ALT. BUILD-OUT MOUNT SECTION

SCALE: 3" = 1'-0"



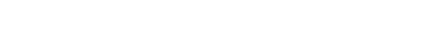
J ALT. "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL

SCALE: 3" = 1'-0"



K ALT. CORNER DETAIL

SCALE: 3" = 1'-0"



L STORM PANEL INTERIOR FASTENING (ISOMETRIC)

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





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NO.	DATE	BY	DESCRIPTION
1	07/19/99	JP	PREV. DRAWING NO. 95-499
2	12/23/99	JP	COUNTY COMMENTS

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

DEC 29 1999
 date 07/19/99
 scale AS NOTED
 design by VJK
 checked by VJK
 drawing no. 99-097
 sheet 4 of 4

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 3.
- 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. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- 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 ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.

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

EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DISTANCE								
			SPANS UP TO 5'-6" (SEE NOTE 1)			SPANS UP TO 8'-7" (SEE NOTE 1)			SPANS UP TO 11'-0" (SEE NOTE 1)		
			CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE
WOOD	1/4" WOOD LAG W/ 1-3/4" MIN. THREAD PENETRATION SHEAR PARALLEL OR PERP. TO WOOD GRAIN	48	11	11	11	11	11	7	11	8	5
		62	11	11	8	11	7	5	11	5	4
		72	11	11	7	11	6	4	11	4	3
		92	11	8	6	11	4	3	11	3	3
		230	11	3	3	11	3	3	11	3	3
		* 5/16" O.D. BRASS WOOD BUSHING W/ 1/4-20 SIDEWALK BOLT (3/4" HEAD) W/ 1" MIN. EMBEDMENT	48	6.25	6.25	6.25	6.25	4	6	6.25	3
	62	6.25	6.25	6.25	6.25	4	6.25	6.25	3	3	
	72	6.25	5	6.25	6.25	4	6	6.25	3	3	
	92	6.25	3	4	6	3	4	6.25	3	3	
	230	4	4	4	4	4	4	4	4	4	

TABLE 2 MIN. SEPARATION FROM GLASS SCHEDULE

POSITIVE DESIGN LOAD (W) (P.S.F.)	MAX. PANEL LENGTH (FT. - IN.)	MIN. SEPARATION FOR INSTALLATIONS LESS THAN 30' ABOVE GRADE (IN.)			MIN. SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (IN.)
		SYSTEMS 1 & 2		SYSTEM 3	
		MIDSPAN TUBE	MIDSPAN BOLTS		
40.0	5-7	2-1/4	2-3/8	3-1/2	1-1/8
	8-5	2-1/4	2-3/8	3-1/2	1-5/8
	8-8	3	3	3-1/2	1-3/4
	11-0	3	3	N/A	2-7/8
50.0	5-7	2-1/4	2-3/8	3-1/2	1-1/4
	8-5	2-1/4	2-3/8	3-1/2	1-7/8
	8-8	3	3	3-1/2	1-7/8
	10-6	3	3	N/A	3
60.0	5-7	2-1/4	2-3/8	3-1/2	1-1/4
	8-5	2-1/4	2-3/8	3-1/2	2
	8-8	3	3	3-1/2	2-1/8
	10-1	3	3	N/A	3
70.0	5-7	2-1/4	2-3/8	3-1/2	1-1/4
	8-5	2-1/4	2-3/8	3-1/2	2-1/8
	8-8	3	3	3-1/2	2-1/4
	9-9	3	3	N/A	3

N / A DESIGNATES CONDITIONS WHICH ARE NOT ACCEPTABLE USES.

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE January 21, 2000
 BY Helmut A. Miller
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 99-080401

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

EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) PSF MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE																		
			SPANS UP TO 5'-6" (SEE NOTE 1)			SPANS UP TO 8'-7" (SEE NOTE 1)			SPANS UP TO 11'-0" (SEE NOTE 1)												
			CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE	CONNECTION TYPE										
MIN. 3,000 P.S.I. CONCRETE	1/4" ITW TAPCON W/ 1-1/2" MIN. EMBEDMENT	48	12.5	12.5	12.5	9	8	12.5	5	6.25	12.5	12.5	12.5	12.5	11	12.5	12.5	7	11		
		62	12.5	12.5	10	12.5	5	6.25	12.5	3	5	12.5	12.5	12.5	12.5	7	10	12.5	4	8	
		72	12.5	10	9	12.5	4	5	12	3	4	12.5	12.5	12.5	12.5	5	9	12.5	3	7	
		92	12.5	6.25	7	12	3	4	9	3	3	12.5	7	11	12.5	3	7	12	3	5	
	* 1/4" ELCO MALE/FEMALE "PANELMATE" W/ 1-1/4 MIN. EMBEDMENT WITH 1/4-20 MACHINE SCREW OR WINGNUT	48	12.5	12.5	11	12.5	6	7	12	3	5	12.5	12.5	12.5	12.5	6.25	8	12.5	4	6.25	
		62	12.5	10	8	12	3	5	9	3	4	12.5	10	10	12	3	6.25	9	3	5	
		72	12.5	7	7	10	3	4	8	3	3	12.5	7	8	10	3	5	8	3	4	
		92	12.5	4	6	8	3	6.25	3	6.25	3	12.5	4	6.25	8	3	4	6.25	3	3	
	* 1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	48	12.5	12.5	12.5	12.5	12.5	10	12.5	8	8	12.5	12.5	12.5	12.5	12.5	12.5	10	12.5		
		62	12.5	12.5	12.5	12.5	7	8	12.5	5	6.25	12.5	12.5	12.5	12.5	9	12.5	12.5	6.25	10	
		72	12.5	12.5	11	12.5	6	7	12.5	4	5	12.5	12.5	12.5	12.5	7	11	12.5	5	9	
		92	12.5	8	8	12.5	4	5	12.5	3	4	12.5	10	12.5	12.5	5	8	12.5	3	7	
	1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT	48	6.25	6.25	6.25	6.25	6.25	6.25	4	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	4	6.25		
		62	6.25	6.25	6.25	6.25	4	6.25	6.25	5	6.25	6.25	6.25	6.25	4	6.25	6.25	6.25	6.25	6	
		72	6.25	6.25	6.25	6.25	3	5	6.25	4	6.25	6.25	6.25	6.25	3	6.25	6.25	6.25	6.25	5	
		92	6.25	4	6.25	6.25	4	6.25	3	6.25	4	6.25	4	6.25	6.25	5	6.25	6.25	6.25	4	
	HOLLOW CONCRETE BLOCK	1/4" ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12.5	12.5	7	9	3	4	7	3	3	12.5	12.5	10	11	4	6.25	9	5	
			62	11	6.25	5	7	3	5	3	5	3	12.5	8	8	9	5	7	4	4	
			72	10	4	4	6.25	3	5	3	5	3	12	5	7	7	4	6	3	3	
			92	7	3	3	5	3	4	3	4	3	9	3	5	6	3	4	3	4	
		* 1/4" ELCO MALE/FEMALE "PANELMATE" W/ 1-1/4 MIN. EMBEDMENT WITH 1/4-20 MACHINE SCREW OR WINGNUT	48	12.5	12.5	11	12.5	6	7	12	3	5	12.5	12.5	12.5	12.5	6.25	8	12.5	4	6.25
			62	12.5	10	8	12	3	5	9	3	4	12.5	10	10	12	3	6.25	9	3	5
			72	12.5	7	7	10	3	4	8	3	3	12.5	7	8	10	3	5	8	3	4
			92	12.5	4	6	8	3	6.25	3	6.25	3	12.5	4	6.25	8	3	4	6.25	3	3
* 1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW		48	12.5	12.5	9	12.5	5	6	10	3	4	12.5	12.5	12.5	12.5	6.25	9	12.5	4	7	
		62	12.5	9	7	10	3	4	8	3	3	12.5	11	11	12.5	4	7	10	3	5	
		72	12.5	6	6.25	9	3	4	7	3	3	12.5	7	9	11	3	6	8	3	4	
		92	11	3	5	7	3	5	3	5	3	12.5	4	7	8	3	4	7	3	3	
1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT		48	6.25	6.25	6.25	6.25	4	6.25	6.25	5	6.25	6.25	6.25	6.25	6.25	5	6.25	6.25	3	6	
		62	6.25	6.25	6.25	6.25	5	6.25	4	6.25	6.25	6.25	6.25	6.25	6.25	3	6	6.25	6.25	4	
		72	6.25	5	6.25	6.25	4	6	3	6.25	5	6.25	5	6.25	6.25	5	6.25	6.25	6.25	4	
		92	6.25	3	5	5	3	4	3	4	3	6.25	3	6.25	6.25	4	5	6.25	6.25	3	
230		4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		