MIAMI-DADE

BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.035" (min.) Galvanized Steel Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 99-097, titled " 20 Ga. Galvanized Steel Storm Panel ", sheets 1 through 4 of 4, prepared by Knezevich & Associates, Inc., dated July 19, 1999, last revision #4 dated July 31, 2002, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

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", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA 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 NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **renews NOA # 02-0531.02** and consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

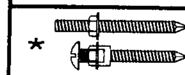
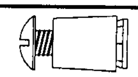
PRODUCT CONTROL ACCEPTED

NOA No 02-0826.07
Expiration Date: 01/04/2008
Approval Date: 09/19/2002

Print Information: J:\CADD\Cadd99\FL-Storm\99-097\R4-SUB\99-097-04.dwg AVazquez 07/31/2002 03:35:53pm

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									MIN. 3" EDGE DISTANCE								
			SPANS UP TO 5'-6" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 8'-7" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 11'-0" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 5'-6" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 8'-7" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 11'-0" (SEE NOTE 1) CONNECTION TYPE		
			1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
MIN. 3,000 P.S.I. CONCRETE	1/4"ø ITW TAPCON W/ 1-1/2" MIN. EMBEDMENT	48	12.5	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	12.5	7	11	12.5	3	7	12		5
		230	8		3	8		3	8		3	10		4	10		4	10		4
	 * 1/4"ø 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		4	12.5	10	10	12	3	6.25	9		5
		72	12.5	7	7	10		4	8		3	12.5	7	8	10	3	5	8		4
		92	12.5	4	6	8		3	6.25			12.5	4	6.25	8		4	6.25		3
		230	5			5			5			5			5			5		
	 * 1/4"ø 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	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
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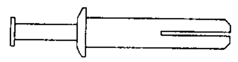
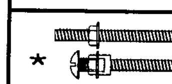
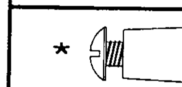
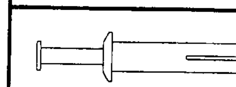
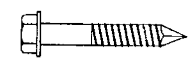
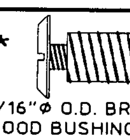
	 1/4"ø POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT	48	6.25	6.25	6.25	6.25	6.25	6.25	6.25	4	6.25	6.25	6.25	6.25	6.25	6.25	6.25	6.25	4	6.25
		62	6.25	6.25	6.25	6.25	4	6.25	6.25		5	6.25	6.25	6.25	6.25	4	6.25	6.25		6
		72	6.25	6.25	6.25	6.25	3	5	6.25		4	6.25	6.25	6.25	6.25	3	6.25	6.25		5
		92	6.25	4	6.25	6.25		4	6.25		3	6.25	4	6.25	6.25		5	6.25		4
		230	5			5			5			6		3	6		3	6		3
HOLLOW CONCRETE BLOCK	1/4"ø ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	48	12.5	12.5	7	9	3	4	7		3	12.5	12.5	10	11	4	6.25	9		5
		62	11	6.25	5	7		3	5			12.5	8	8	9		5	7		4
		72	10	4	4	6.25		3	5			12	5	7	7		4	6		3
		92	7		3	5			4			9	3	5	6		3	4		
		230	3			3			3			4			4			4		
	 * 1/4"ø 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		4	12.5	10	10	12	3	6.25	9		5
		72	12.5	7	7	10		4	8		3	12.5	7	8	10	3	5	8		4
		92	12.5	4	6	8		3	6.25			12.5	4	6.25	8		4	6.25		3
		230	5			5			5			5			5			5		
	 * 1/4"ø 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	12.5	11	11	12.5	4	7	10		5
		72	12.5	6	6.25	9		4	7		3	12.5	7	9	11	3	6	8		4
		92	11	3	5	7		3	5			12.5	4	7	8		4	7		3
		230	4			4			4			5		3	5		3	5		3
	 1/4"ø 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	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	3	6	6.25		4
		62	6.25	5	6.25	6.25		4	6		3	6.25	5	6.25	6.25		5	6.25		4
		72	6.25	3	5	5		3	4			6.25	3	6.25	6.25		4	5		3
		230	4			4			4			4			4			4		

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) CONNECTION TYPE			SPANS UP TO 8'-7" (SEE NOTE 1) CONNECTION TYPE			SPANS UP TO 11'-0" (SEE NOTE 1) CONNECTION TYPE		
			1	2	3	1	2	3	1	2	3
WOOD	 1/4"ø 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	
		230	11			11			11		
	 * 5/16"ø O.D. BRASS WOOD BUSHING W/ 1/4-20 SIDEWALK BOLT (3/4"ø HEAD) W/ 1" MIN. EMBEDMENT	48	6.25	6.25	6.25	6.25	4	6	6.25	3	4
		62	6.25	6.25	6.25	6.25		4	6.25		3
		72	6.25	5	6.25	6.25		4	6		3
		92	6.25	3	4	6		3	4		
		230	4			4			4		

ANCHOR NOTES:

1. 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.
2. 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.
3. 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.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
6. 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.
7. 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.
8. 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.
9. [hatched box] DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
10. * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.

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.) — SYSTEMS 1 & 2: MIDSPAN TUBE	SYSTEMS 1 & 2: MIDSPAN BOLTS	SYSTEM 3: NO MIDSPAN BOLTS OR TUBE REQUIRED	MIN. SEPARATION FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (IN.) — ALL CONDITIONS
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.

PRODUCT RENEWED
as complying with the Florida Buiding Code
Acceptance No 02-0826.07
Expiration Date 01/04/2008
By Helmy A. Makar
Miami Dade Product Control Division

KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
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

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

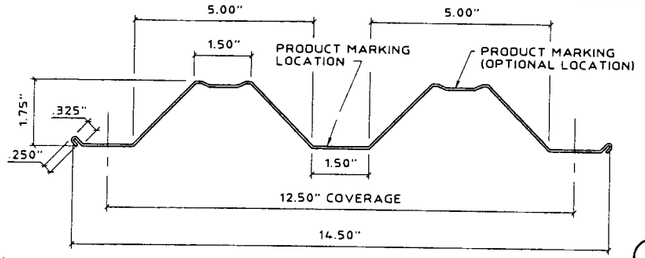
JUL 3 1 2002

revisions

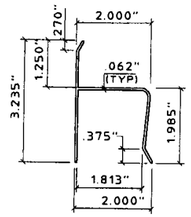
no	date	by	description
1	07/19/99	JP	PREV. DRAWING No. 95-498
2	12/23/99	JP	COUNTY COMMENTS
3	05/22/02	OLB	NEW FBC 2001 NOTES
4	07/31/02	OLB	HEMMED PANEL LIP

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

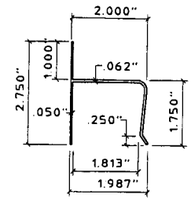
07/31/02 15:35



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



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



3 "h" HEADER
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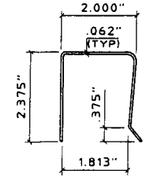
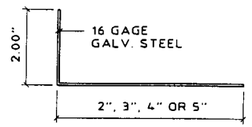
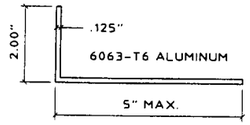


4 "U" HEADER
SCALE : 3" = 1'-0"



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



5a ANGLE
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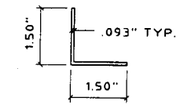
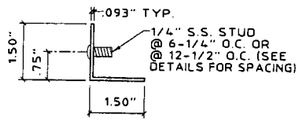
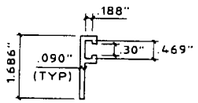


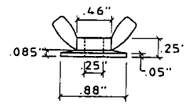
6 ANGLE
SCALE : 3" = 1'-0"



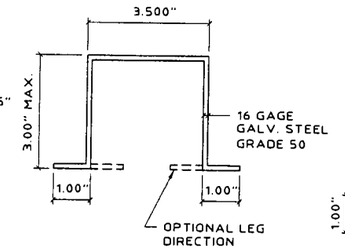
7 STUDDED ANGLE
SCALE : 3" = 1'-0"



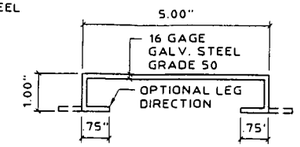
8 "F" TRACK
SCALE : HALF SIZE



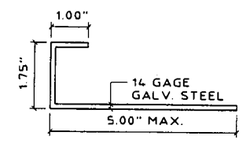
9 WINGNUT
SCALE : HALF SIZE



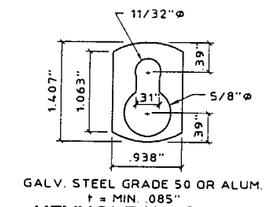
10 STANDARD CHANNEL
SCALE : HALF SIZE



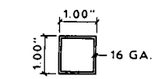
11 SOFFIT CHANNEL
SCALE : HALF SIZE



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



13 KEYHOLE WASHER
SCALE : HALF SIZE

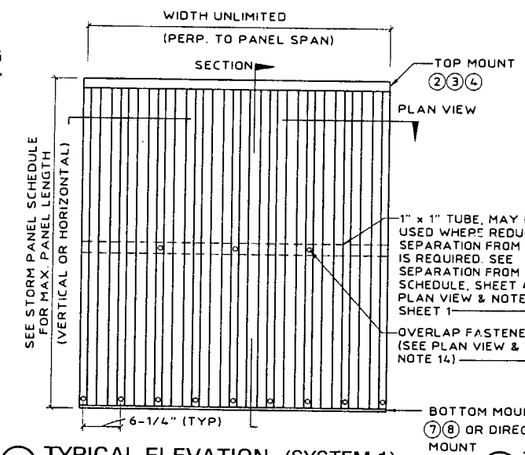


14 STEEL TUBE
SCALE : 3" = 1'-0"

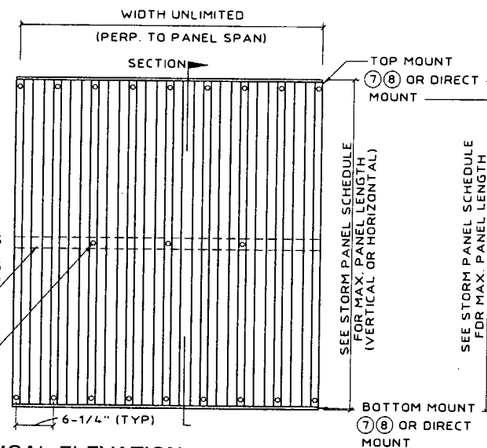
GENERAL NOTES:

1. THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE.
2. TO VERIFY THAT THE ANCHORS AS TESTED, ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, A 33% INCREASE IN ALLOWABLE STRESS WAS USED IN THE FASTENER ANALYSIS.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7-98, A DIRECTIONALITY FACTOR OF Kd =1.0 SHALL BE USED.
4. THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
5. THESE APPROVAL DOCUMENTS COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
6. THESE APPROVAL DOCUMENTS, ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
7. ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
   A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
   B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION

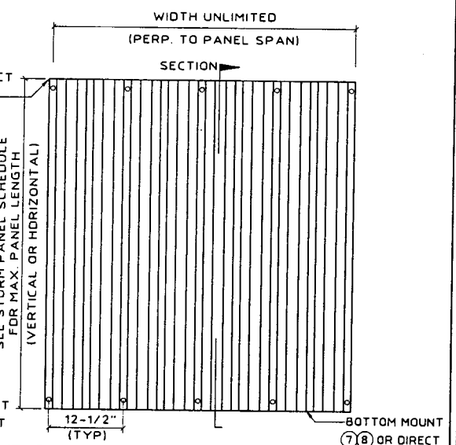
   WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
9. STORM PANELS SHALL BE 20 GAUGE STEEL (t = .035") CONFORMING TO ASTM A653, STRUCTURAL QUALITY, GRADE 40, G 60 GALVANIZED COATING, WITH A MINIMUM Fy = 46.7 KSI.
10. PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL AND SHALL BE PERMANENTLY LABELED AS FOLLOWS:
    FLORIDA STORM PANELS, INC.
    OPA LOCKA, FLORIDA
    MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
11. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 KSI.
12. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N
13. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.
14. 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/ DIE CAST ALUMINUM WASHERED WINGNUTS OR JACKNUTS (SEE TYPICAL ELEVATION (15) & (16)). PANELS NOT UTILIZING STEEL TUBE SHALL BE FASTENED AT MIDSPAN W/ 1/4-20 x 1" BOLTS WITH DIE 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).
15. AT LEAST ONE WARNING NOTE PER OPENING SHALL BE PLACED IN A CONSPICUOUS LOCATION ON ANY OF THE COMPONENTS OF THE STORM PANELS SYSTEM ADVISING THE HOME OWNER OR TENANT THAT THE STORM PANELS WILL NOT OFFER HURRICANE PROTECTION UNLESS ALL REINFORCING BOLTS AND/OR STRAPS ARE PROPERLY INSTALLED WHEN REQUIRED. WARNING LABEL SHALL BE FASTENED WITH PERMANENT ADHESIVE OR MECHANICALLY.



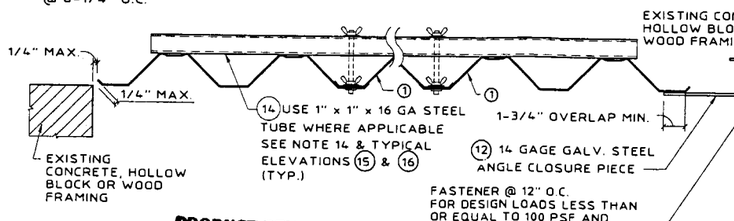
15 TYPICAL ELEVATION (SYSTEM 1)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP MOUNTS SHALL BE "h" OR "U" HEADERS. BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.

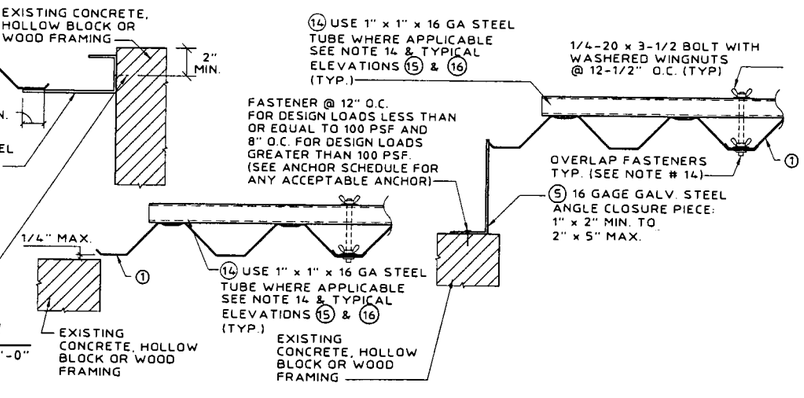


16 TYPICAL ELEVATION (SYSTEM 2)
OVERLAP FASTENERS OR REINFORCING TUBE REQUIRED. TOP & BOTTOM MOUNTS SHALL BE "F" TRACK OR STUDDED ANGLES WITH STUDS @ 6-1/4" O.C. OR DIRECT MOUNTS WITH ANCHORS @ 6-1/4" O.C.



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"

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 02-0826.07
Expiration Date 01/04/2008
By Helmy A. Moker
Miami Dade Product Control Division

KNEZEVICH & ASSOCIATES, INC.
CONSULTING ENGINEERS • PRODUCT TESTING
1260 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
TEL: (954) 382-2800 • FAX: (954) 382-2989 • FLORIDA COA #3205
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

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

JUL 31 2002

revisions			
no	date	by	description
1	07/19/99	JP	PREV. DRAWING No. 95-456
2	12/23/99	JP	COUNTY COMMENTS
3	05/22/02	DLB	NEW FBC 2001 NOTES
4	07/31/02	DLB	HEMMED PANEL LIP

date 07/19/99
scale AS NOTED
drawn by MC
design by VJK
checked by VJK
drawing no. 99-097
sheet 1 of 4

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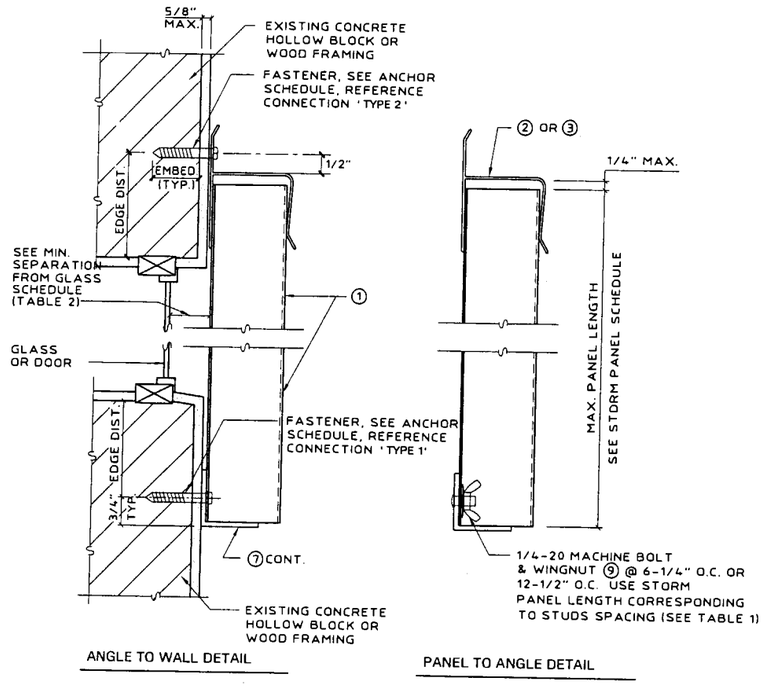
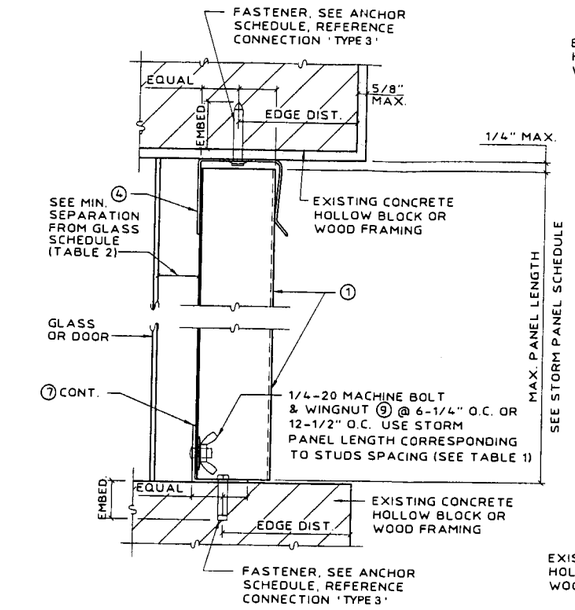


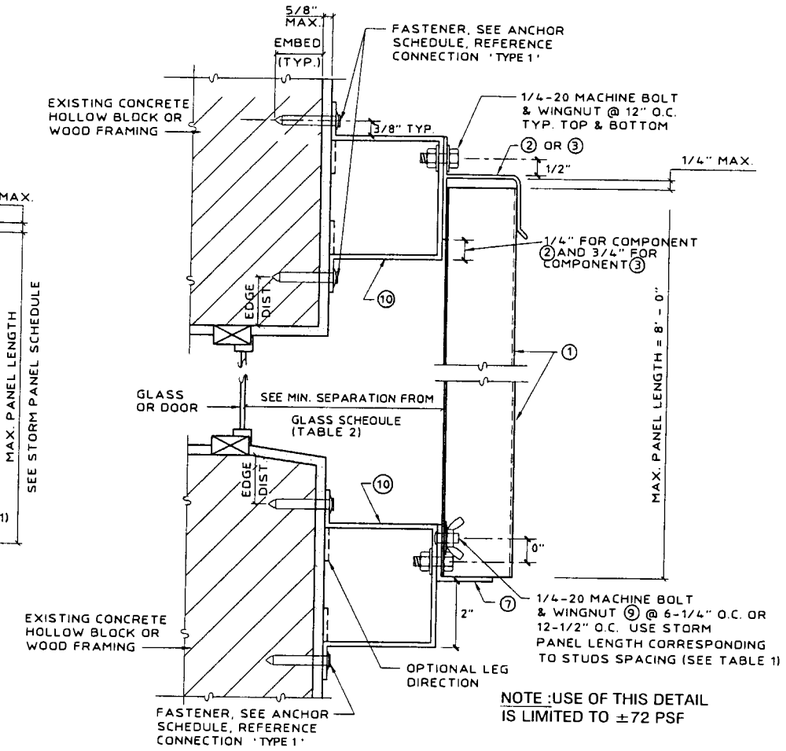
Ⓐ WALL MOUNT SECTION

SCALE : 3" = 1'-0"



Ⓑ CEILING/INSIDE MOUNT SECTION

SCALE : 3" = 1'-0"



Ⓒ BUILD-OUT MOUNT SECTION

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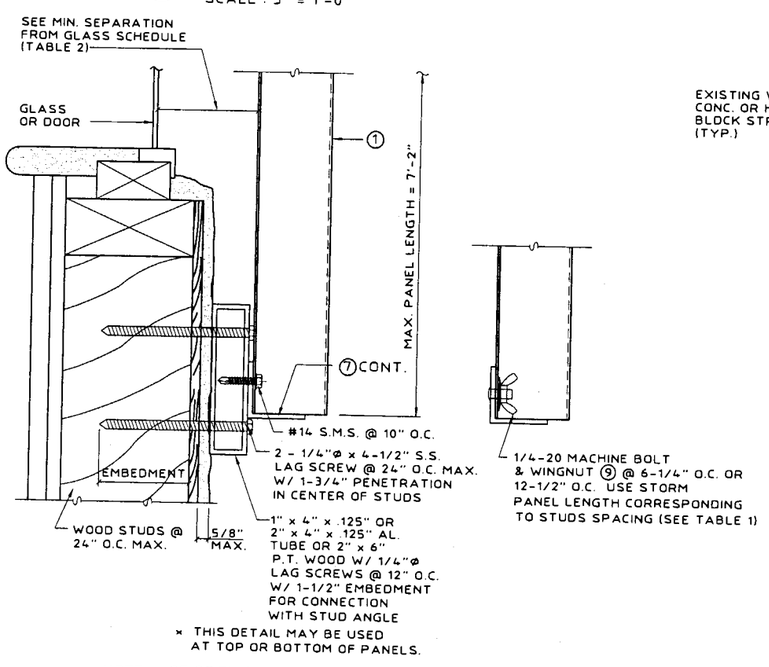
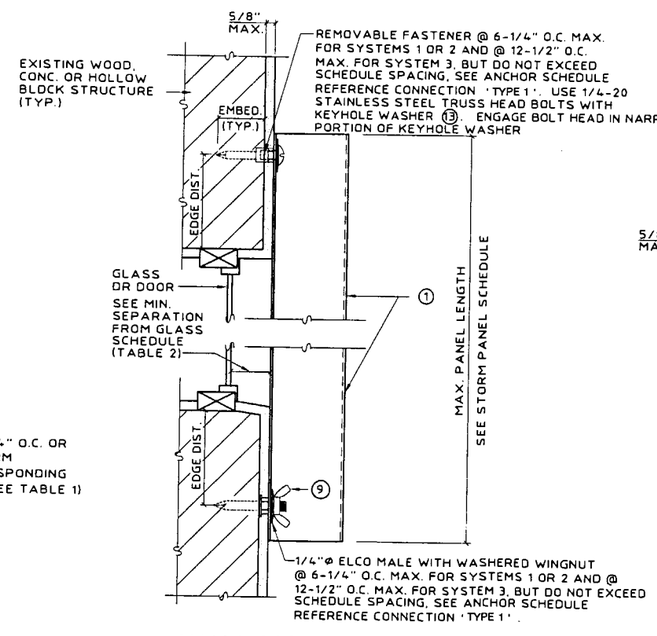


NOTE: USE OF THIS DETAIL IS LIMITED TO ± 72 PSF.

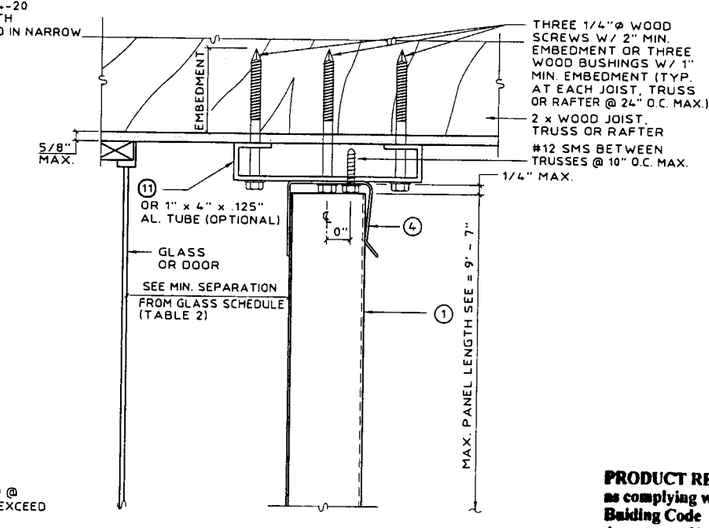
Ⓓ WALL MOUNT SECTION (BOTTOM)

SCALE : 3" = 1'-0"



Ⓔ WALL MOUNT SECTION (DIRECT MOUNT)

SCALE : 3" = 1'-0"



NOTE : USE OF THIS DETAIL IS LIMITED TO ±72 PSF.

Ⓕ SOFFIT MOUNT DETAIL

SCALE : 3" = 1'-0"

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 02-0826.07
Expiration Date 01/04/2008
By Helena A. Melo
Miami Dade Product Control Division

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V.J. KNEZEVICH
PROFESSIONAL ENGINEER
FL License No: PE-0010983
JUL 31 2002

revisions

no	date	by	description
1	07/19/99	JP	PREV. DRAWING No. 95-44
2	12/23/99	JP	COUNTY COMMENTS
3	05/22/02	DLB	NEW FBC 2001 NOTES
4	07/31/02	DLB	HEMMED PANEL LIP

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

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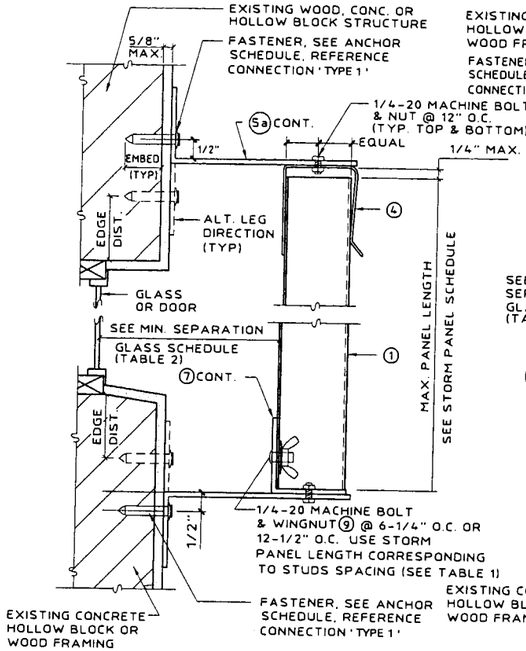
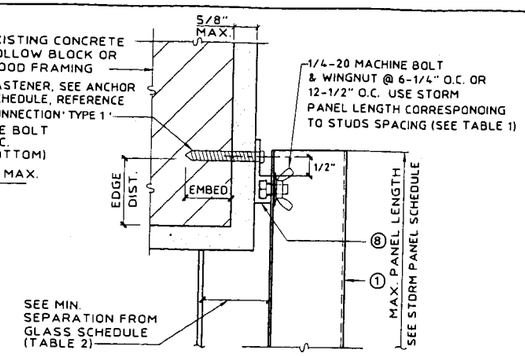


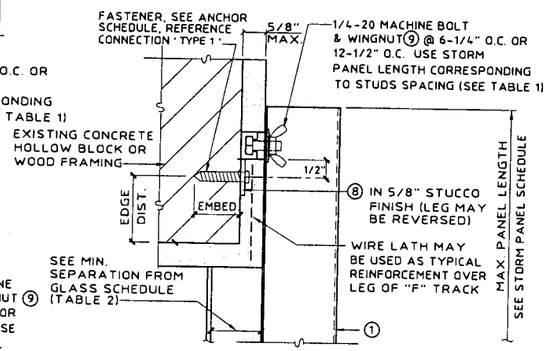
G ALT. BUILD-OUT MOUNT SECTION

SCALE : 3" = 1'-0"



H "F" TRACK CONNECTION TO EXISTING STRUCTURE DETAIL

SCALE : 3" = 1'-0"

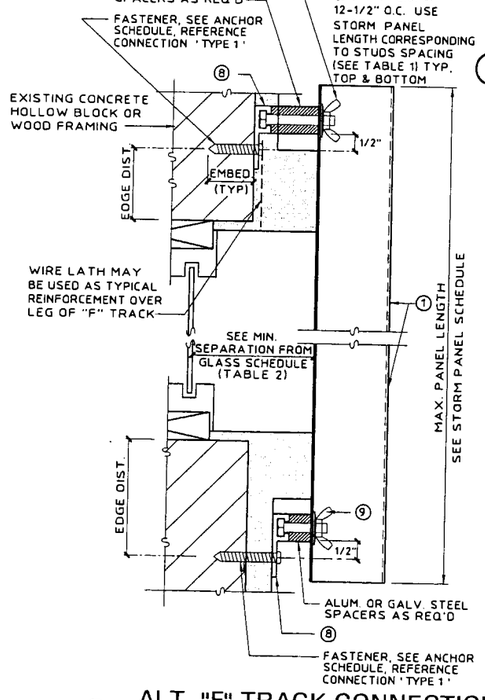


I "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL

SCALE : 3" = 1'-0"

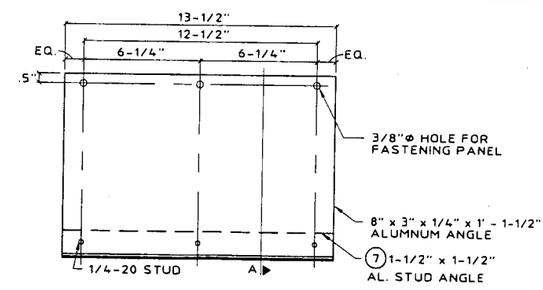
TABLE 1

STORM PANEL SCHEDULE			
	SYSTEM 1	SYSTEM 2	SYSTEM 3
NEGATIVE DESIGN LOAD (W) (P.S.F.)	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



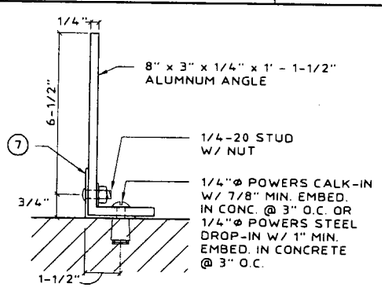
J ALT. "F" TRACK CONNECTION TO NEW STRUCTURE DETAIL

SCALE : 3" = 1'-0"



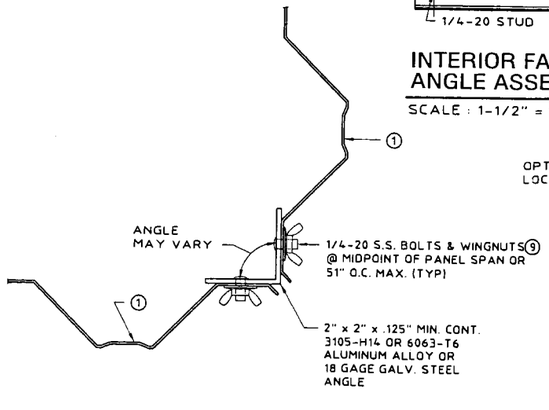
INTERIOR FASTENING ANGLE ASSEMBLY

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



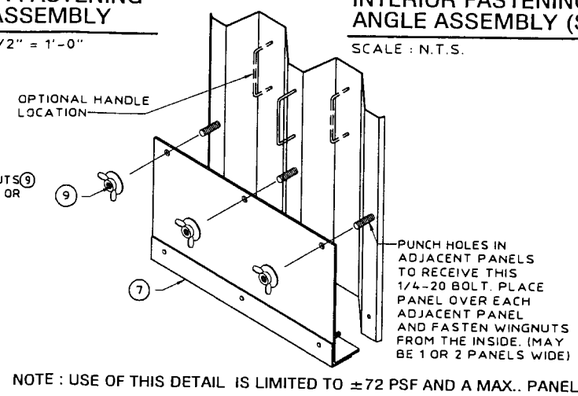
INTERIOR FASTENING ANGLE ASSEMBLY (SECTION A)

SCALE : N.T.S.



K ALT. CORNER DETAIL

SCALE : 3" = 1'-0"



NOTE : USE OF THIS DETAIL IS LIMITED TO ±72 PSF AND A MAX.. PANEL LENGTH OF 11'-0".

L STORM PANEL INTERIOR FASTENING (ISOMETRIC)

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

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 02-0826.07
Expiration Date 01/04/2008
By Helmy A. Mohr
Miami Dade Product Control Division

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revisions

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

Print Information: J:\CADD\Cadd99\FL-Storm\99-097\R4-SUB\99-097-03.dwg AVazquez 07/31/2002 03:35:40pm
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