



**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)

**Madden Manufacturing Co., Inc.
1889 NW 22 ST
Pompano Beach Miami, FL 33147**

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: 0.10 (min) Clear Polycarbonate w/Steel or Aluminum Storm Panels System Shutter

APPROVAL DOCUMENT: Drawing No. 01-455, titled "Clear Polycarbonate Storm Panel System", sheets 1 through 5 of 5, prepared by V.J. Knezevich, P.E., dated 12/17/01, 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.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and 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.

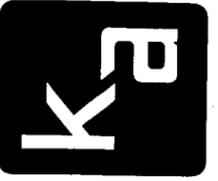
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 revises NOA #01-1004.02, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**



**NOA No 02-0315.13
Expiration Date: January 10, 2007
Approval Date: April 11, 2002
Page 1**



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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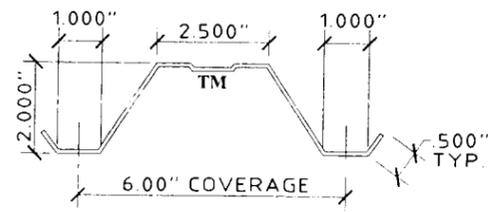
MADDEN
 Manufacturing
 STORM PANELS • RAINBOW PRODUCTS
 1684 NW 27th Street
 Pompano Beach, FL 33064
 Phone: (954) 915-2071
 Fax: (954) 960-0561
 www.maddenmetal.com

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

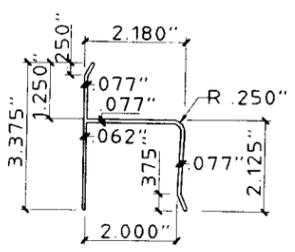
DEC 17 2001

no.	date	by	description	COUNTY COMMENTS
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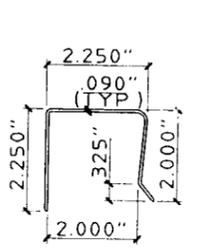
date 10/02/01
 scale AS NOTED drawn by AV
 design by OLB checked by VJK
 drawing no 01-455
 sheet 1 of 5



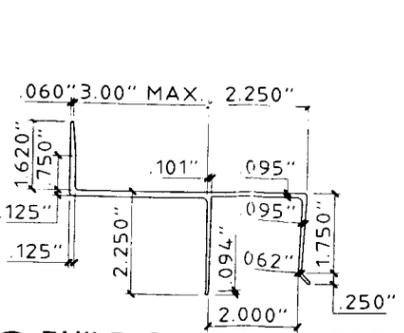
1 POLYCARBONATE HALF STORM PANEL
 SCALE: 3" = 1' - 0"



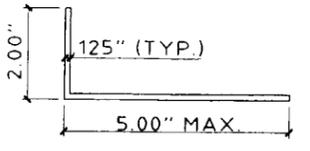
2 "h" HEADER
 SCALE: 3" = 1' - 0"



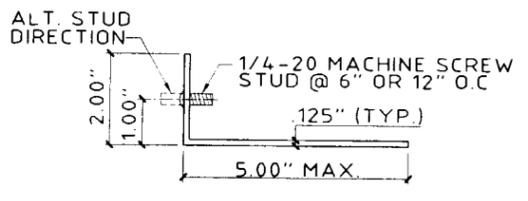
3 "U" HEADER
 SCALE: 3" = 1' - 0"



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



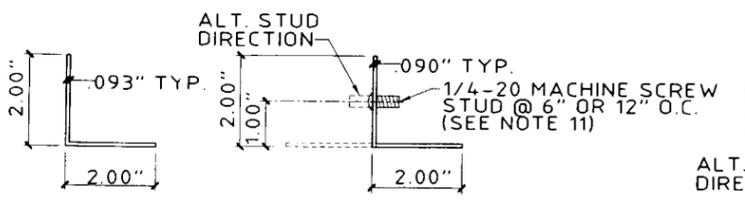
5 ANGLE 6063-T6 TYPICAL
 6061-T6 FOR DETAIL "T"
 SCALE: 3" = 1' - 0"



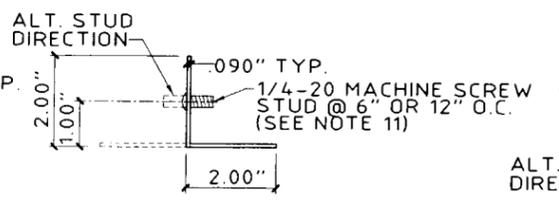
6 STUDED ANGLE
 SCALE: 3" = 1' - 0"

GENERAL NOTES:

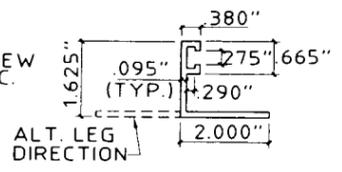
- THIS STORM PANEL SHUTTER SYSTEM IS DESIGNED AND TESTED IN ACCORDANCE WITH THE SOUTH FLORIDA BUILDING CODE 1994 EDITION FOR MIAMI-DADE COUNTY.
- POSITIVE AND NEGATIVE DESIGN LOADS SHALL BE DETERMINED FOR EACH SPECIFIC JOB IN ACCORDANCE WITH THE GOVERNING CODE REQUIREMENTS. TABLES SHALL BE REFERENCED AT APPROPRIATE DESIGN LOADS.
- PRODUCT MARKINGS SHALL BE WITHIN 12" OF ONE END OF THE PANEL WITH A MINIMUM OF ONE MARKING PER PANEL AND SHALL BE LABELED AS FOLLOWS:
 MADDEN MANUFACTURING COMPANY
 POMPANO BEACH, FLORIDA
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- CLEAR POLYCARBONATE STORM PANELS HAVE BEEN TESTED IN ACCORDANCE WITH THE MIAMI-DADE COUNTY PROTOCOLS PA 201, PA 202, AND PA 203. DESIGN IS BASED ON CONSTRUCTION TESTING CORPORATION (C.T.C.) TEST REPORT No. 00-050 AND No. 01-023.
- ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
- ALL FASTENERS AND BOLTS TO BE 2024-T4 ALUMINUM ALLOY, STAINLESS STEEL, OR GALVANIZED STEEL WITH A 33 K.S.I. MINIMUM YIELD STRENGTH.
- TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
- 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.
- THIS CLEAR POLYCARBONATE PANEL MAY BE USED WITH MADDEN MANUFACTURING CO. MIAMI-DADE COUNTY PRODUCT APPROVED METAL PANELS AS LISTED BELOW:
 -0.050" ALUMINUM STORM PANELS
 -0.063" ALUMINUM STORM PANELS
 -20 GA. GALV. STEEL STORM PANELS
 FOR A MAXIMUM PANEL LENGTH= 4' - 9", AND A MAXIMUM DESIGN PRESSURE = ±72.0 P.S.F.
- CLEAR POLYCARBONATE PANELS SHALL BE FASTENED AT MIDSPAN TO THE OVERLAPS OF ADJACENT METAL PANELS WITH STITCHES CONSISTING OF 1/4-20 STAINLESS STEEL SIDEWALK BOLTS WITH WASHERED WINGNUTS.
- STUDED ANGLE STUD SPACING SHALL BE 6" O.C. MAX. FOR CLEAR POLYCARBONATE PANEL SUPPORT AND 12" O.C. MAX. FOR METAL PANEL SUPPORT. WHERE PANELS ARE MOUNTED DIRECTLY TO THE WALL, FASTENER SPACING SHALL FOLLOW THE SAME MINIMUM CONFIGURATION.
- ONE OR MORE CLEAR POLYCARBONATE PANELS MAY BE USED ON EACH OPENING PROVIDED THAT ONLY ONE CLEAR POLYCARBONATE PANEL IS PLACED BETWEEN THE TWO ADJACENT METAL STORM PANELS.
- CLEAR POLYCARBONATE STORM PANELS SHALL BE EXTRUDED WITH A THICKNESS OF 0.100" AND SHALL BE FABRICATED FROM 100% GE SYNTHETIC THERMOPLASTIC POLYMER LEXAN RESIN NUMBER 103-112, WHICH IS COMPARATIVE TO GE LEXAN POLYCARBONATE SHEET NUMBER 9034 AS APPROVED UNDER MIAMI-DADE COUNTY NOTICE OF ACCEPTANCE NUMBER 00-0718.02. SYNTHETIC THERMOPLASTIC POLYMER TENSILE STRENGTH Fy = 8,908 P.S.I., FLEXURAL STRENGTH Fby = 12,900 P.S.I., FLEXURAL MODULUS = 328,700 P.S.I.
- CLEAR POLYCARBONATE STORM PANELS ARE TO BE INSTALLED ONLY FOR THE DURATION OF A HURRICANE WARNING PERIOD AND ARE NOT INTENDED FOR SEASONAL OR PERMANENT INSTALLATIONS WITH PROLONGED EXPOSURE TO SUNLIGHT OR WEATHERING CONDITIONS. PANELS ARE ALSO NOT TO BE STORED IN AREAS WITH DIRECT EXPOSURE TO SUNLIGHT AND WEATHERING CONDITIONS.
- CLEAR POLYCARBONATE STORM PANELS ALTERNATED WITH METAL STORM PANELS SHALL HAVE SEPARATION FROM GLASS EQUAL TO 2-3/4" FOR MEAN ROOF HEIGHT LESS THAN OR EQUAL TO 30 FEET ABOVE FINISH GRADE.



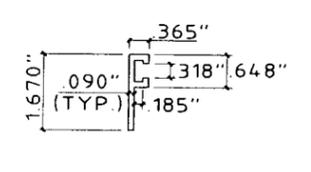
7 ANGLE
 SCALE: 3" = 1' - 0"



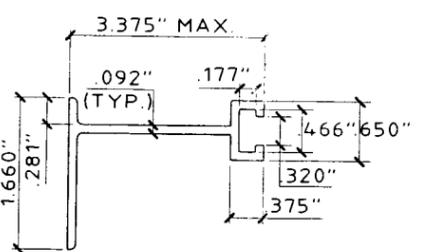
8 STUDED ANGLE
 SCALE: 3" = 1' - 0"



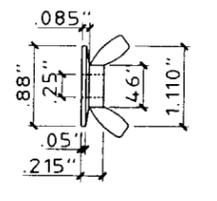
9 "E" TRACK
 SCALE: 3" = 1' - 0"



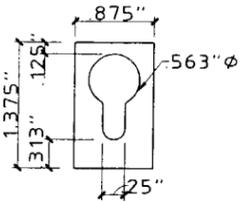
10 "F" TRACK
 SCALE: 3" = 1' - 0"



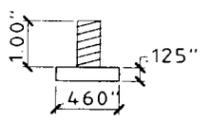
11 BUILD-OUT "F" TRACK
 SCALE: HALF SIZE



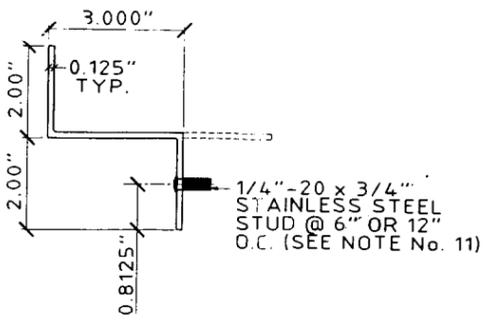
12 ZAMAC WINGNUT
 SCALE: HALF SIZE



20 GA. GALV. STEEL (t = .035")
 GRADE 40 OR 0.050" ALUM ALLOY (3004 H34)
 13 KEYHOLE WASHER
 SCALE: HALF SIZE



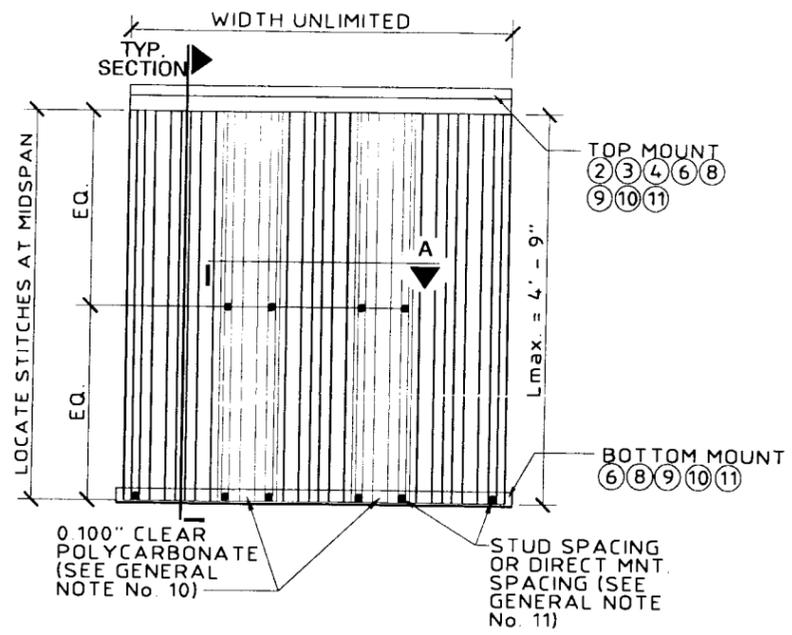
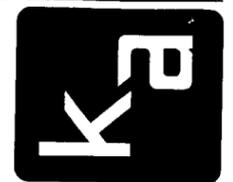
1/4-20 x 1" MACHINE SCREW
 14 HEX HEAD MACHINE SCREW
 N.T.S.



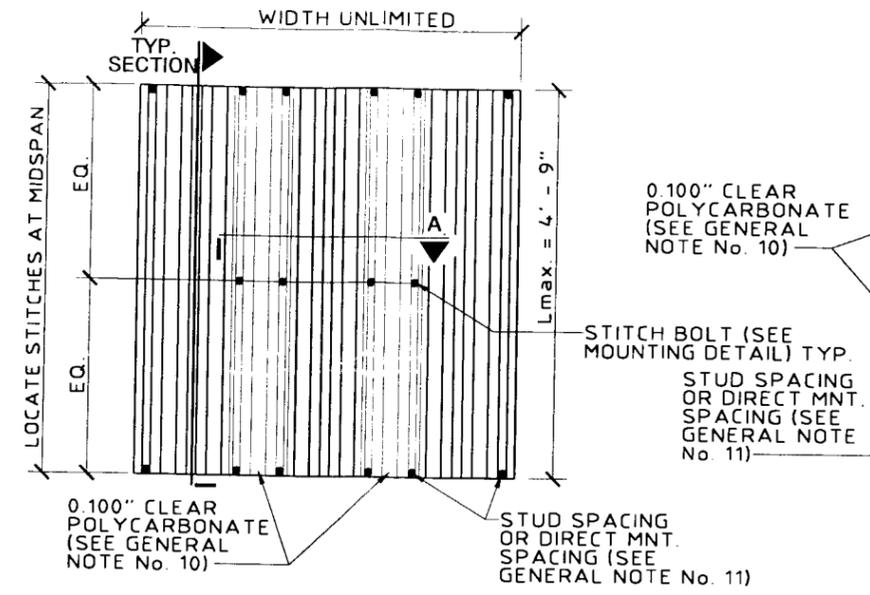
15 Z-STUD TRACK
 SCALE: 3" = 1' - 0"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 02-0315.13
 Expiration Date 01/10/07
 By *[Signature]*
 Miami Dade Product Control
 Division

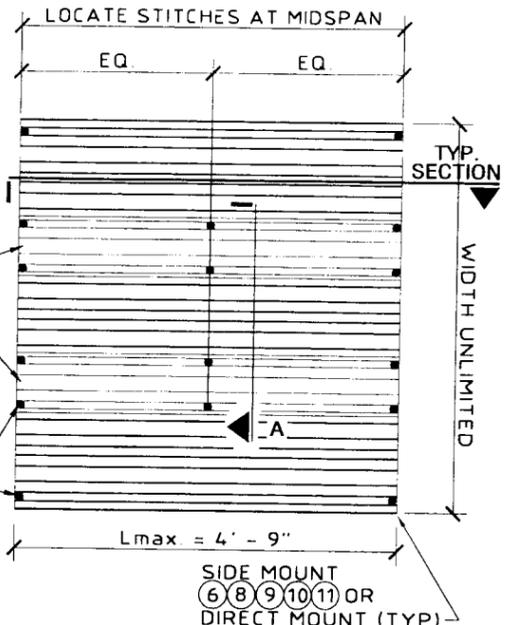
APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 01/10/2002
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-1004.02



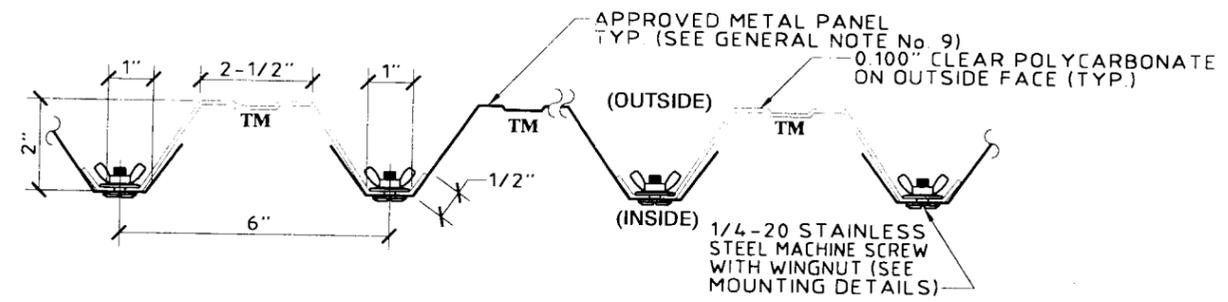
E1 TYPICAL ELEVATION
SCALE: 1/2" = 1' - 0"



E2 VERTICAL DIRECT MOUNT ELEVATION
SCALE: 1/2" = 1' - 0"



E3 HORIZONTAL DIRECT MOUNT ELEVATION
SCALE: 1/2" = 1' - 0"

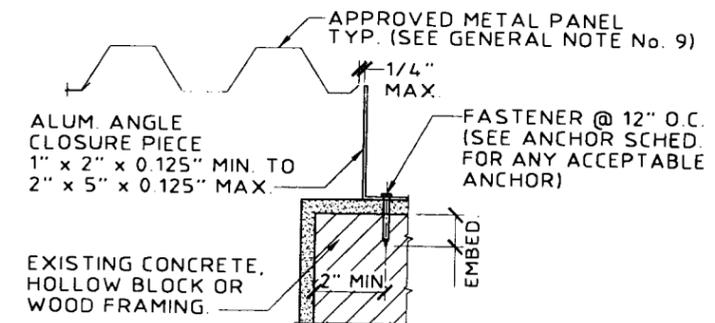


A PLAN VIEW
SCALE: 3" = 1' - 0"

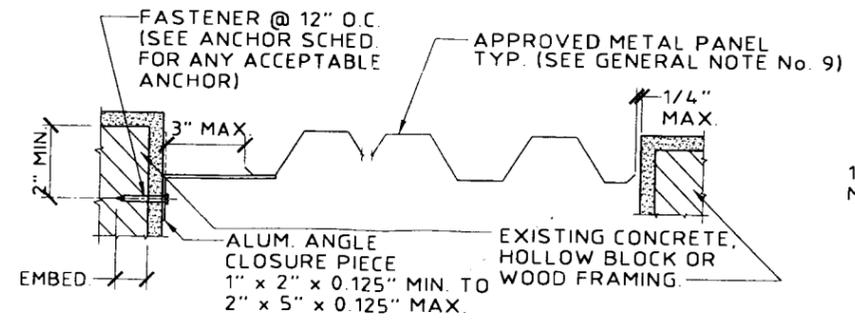
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **02-0315.13**
Expiration Date **01/10/07**

By *[Signature]*
Miami Dade Product Control
Division

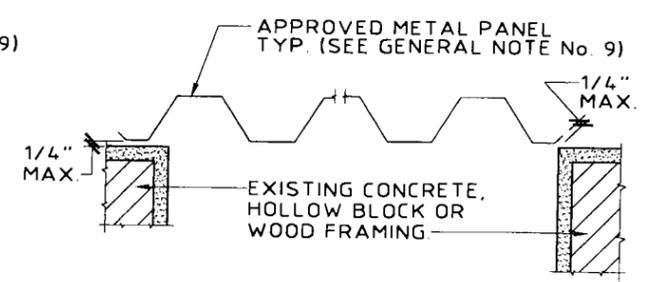
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE **01/10/2007**
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. **01-1004.02**



B BUILD-OUT MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



C TRAP MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"



D WALL MOUNT CLOSURE DETAIL
SCALE: 1-1/2" = 1' - 0"

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

KNEZEVICH & ASSOCIATES, INC.
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WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM
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CLEAR POLYCARBONATE STORM PANEL SYSTEM
1894 N.W. 22nd Street
Pompano Beach, FL 33064
Phone (954) 975-2071
Fax (954) 960-0561
www.maddemetal.com

MADDEN
Manufacturing
STORM PANELS • RAINBOW PRODUCTS

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

DEC 17 2007

NO.	DATE	BY	DESCRIPTION	COUNTY COMMENTS
1	12/17/07	WAS		

date 10/02/01
scale AS NOTED drawn by AV
design by OLB checked by VJK
drawing no. **01-455**
sheet 2 of 5

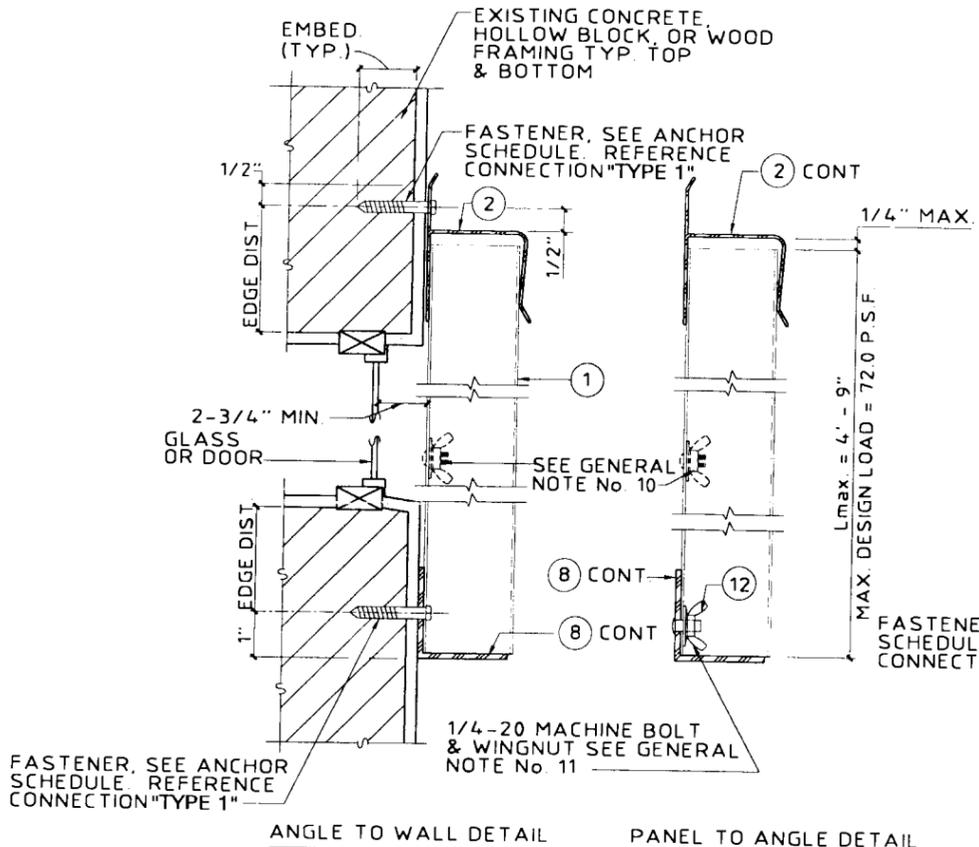


KNEZEVICH & ASSOCIATES, INC.
 CONSULTING ENGINEERS • PRODUCT TESTING
 1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322
 TEL: (954) 382-2800 • FAX: (954) 382-2889 • FLORIDA COA #3205
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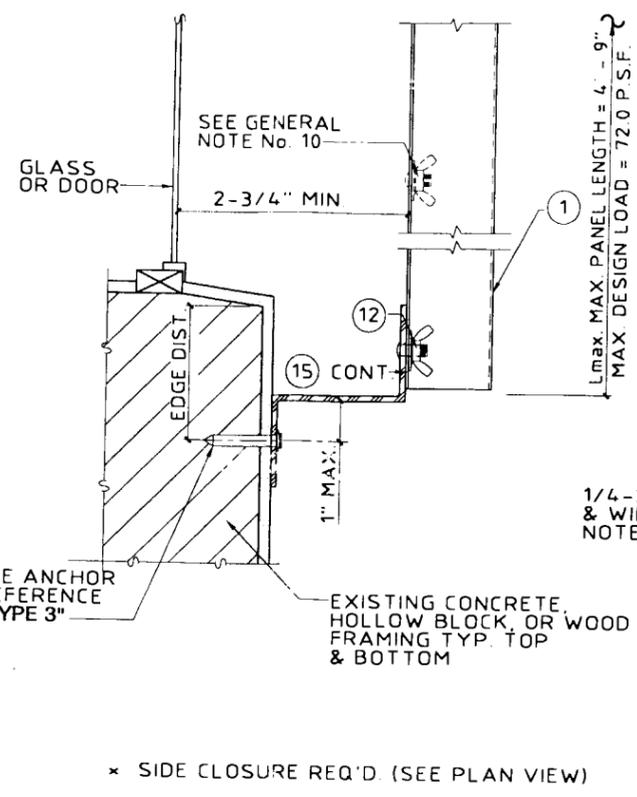
CLEAR POLYCARBONATE STORM PANEL SYSTEM
 1884 NW 22nd Street
 Pompano Beach, FL 33064
 Phone (954) 975-2071
 Fax (954) 960-0561
 WWW.MADDMANUFACTURING.COM
MADDMANUFACTURING
 STORM PANELS • RAINBOW PRODUCTS

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

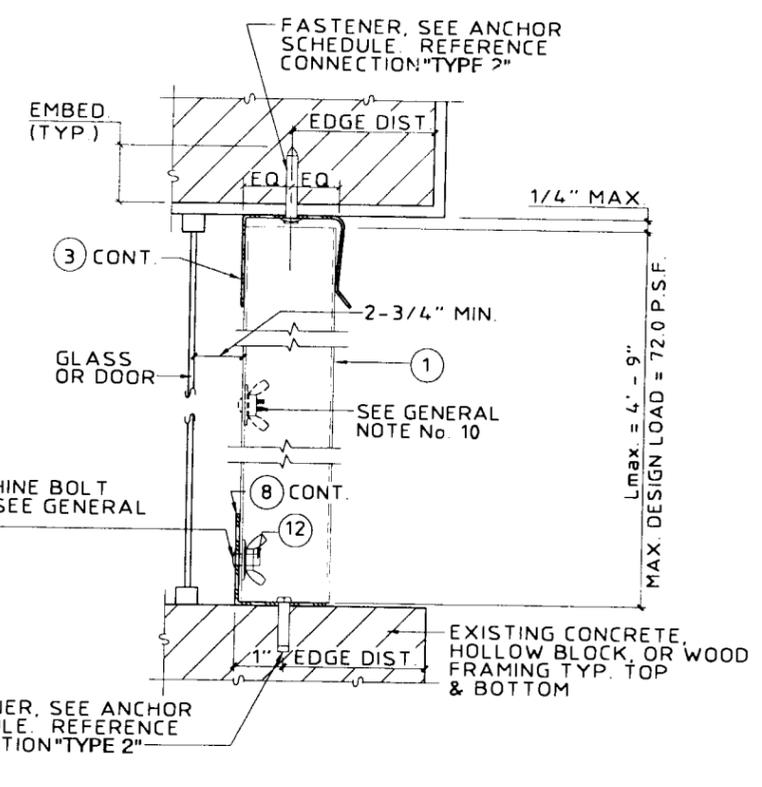
DEC 7 2002



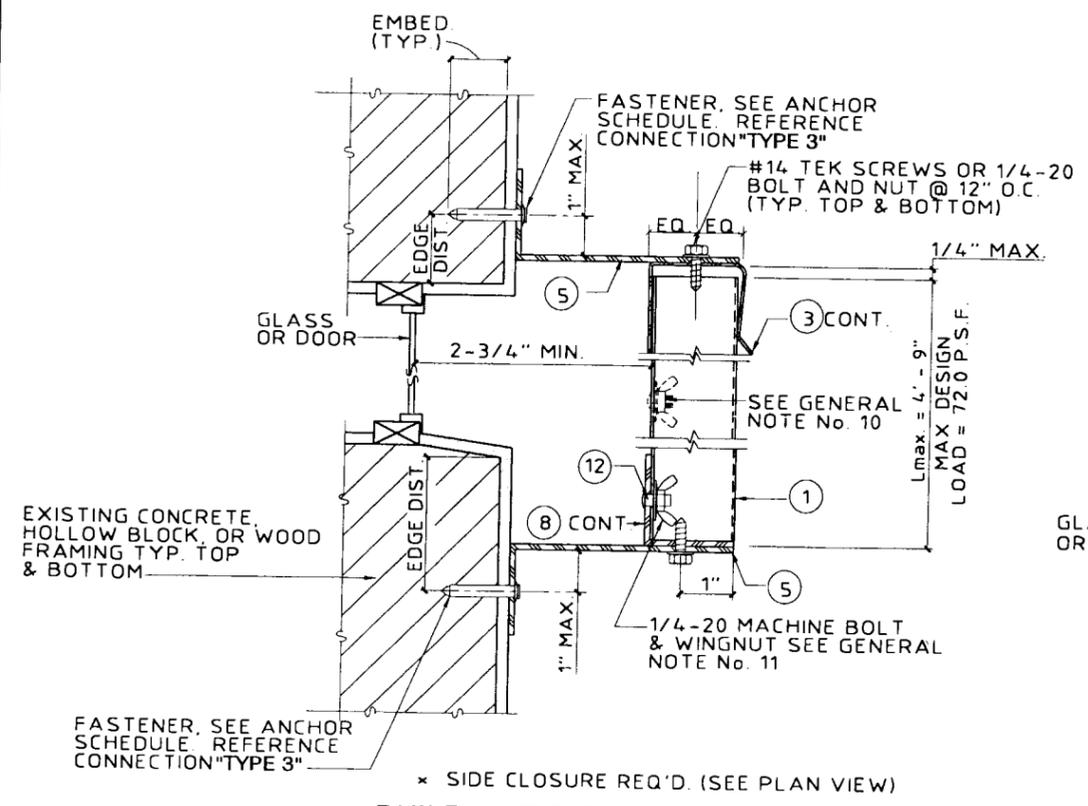
E WALL MOUNT SECTION
 SCALE: 3" = 1'-0"



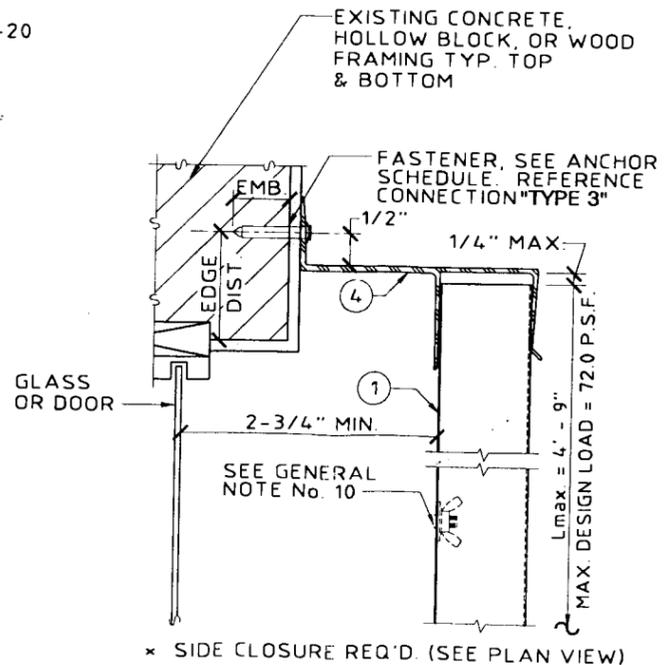
F BUILD-OUT MOUNT SECTION
 SCALE: 3" = 1'-0"



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



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



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

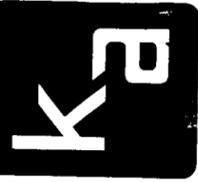
PRODUCT REVISED
 as complying with the Florida Building Code
 Acceptance No. 02-0315.12
 Expiration Date 01/10/07

By *Helmut A. Mader*
 Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 01/10/2002
 BY *Helmut A. Mader*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-1004.02

no.	date	description	COUNTY COMMENTS
1	12/17/01	WAS	

date	10/02/01
scale	AS NOTED
AS NOTED	drawn by AV
design by OLB	checked by VJK
drawing no.	01-455
sheet	3 of 5



KNEZEVICH & ASSOCIATES, INC.
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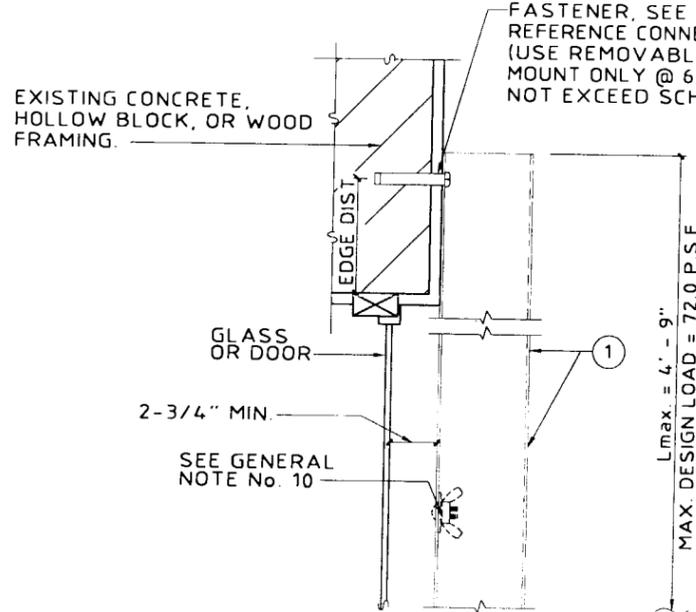
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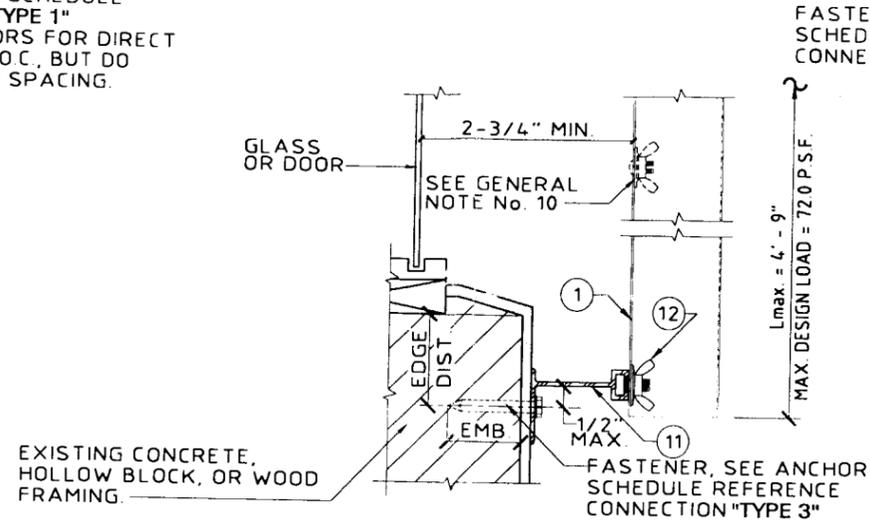
DEC 17 2001

NO.	DATE	BY	DESCRIPTION	COUNTY COMMENTS
1	12/17/01	MAS		

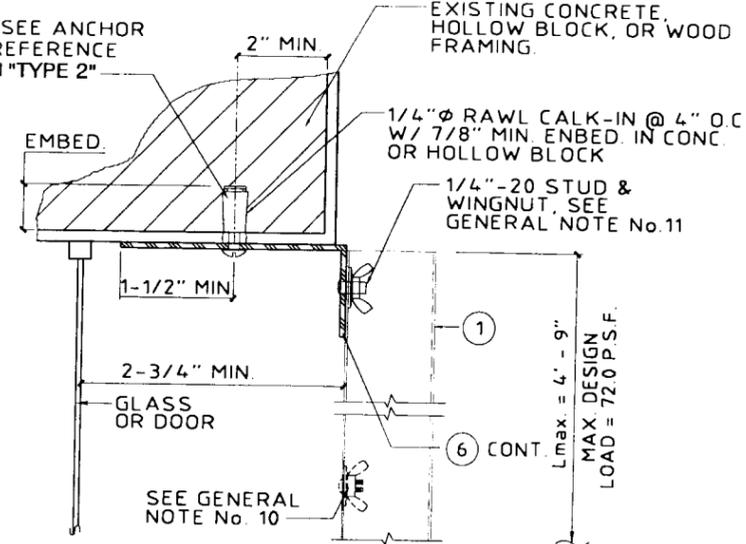
date	10/02/01
scale	AS NOTED
drawn by	AV
design by	OLB
checked by	VJK
drawing no.	01-455
sheet	4 of 5



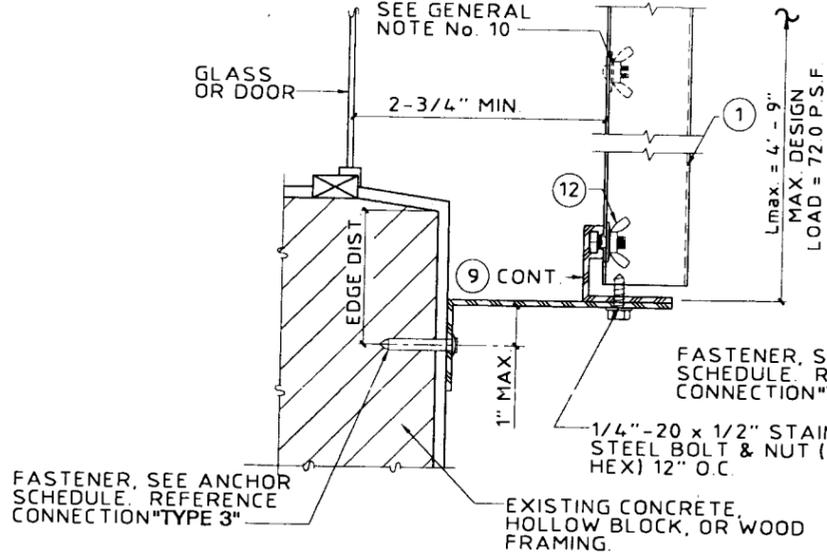
J WALL MOUNT SECTION (DIRECT MOUNT)
 SCALE: 3" = 1'-0"



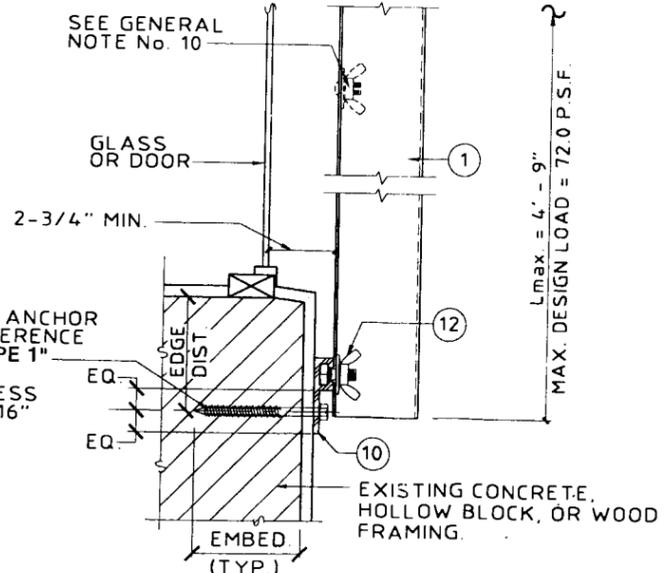
K BUILD OUT SECTION (TYP. TOP & BOTTOM)
 SCALE: 3" = 1'-0"



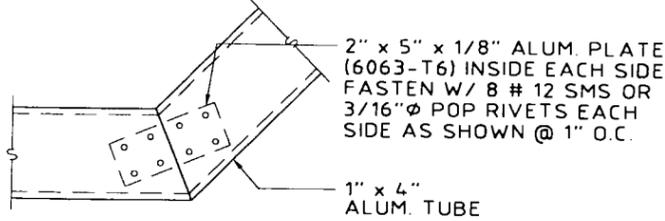
L ALT. TRAP MOUNT DETAIL
 SCALE: 3" = 1'-0"



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



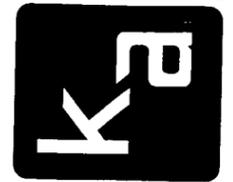
R "F" TRACK MOUNT SECTION
 SCALE: 3" = 1'-0"



SPLICE DETAIL FOR BAY WINDOW APPLICATIONS
 SCALE: 1-1/2" = 1'-0"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 02-0315.13
 Expiration Date 01/10/02
 By *[Signature]*
 Miami Dade Product Control
 Division

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE 01/10/2002
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-1004.02



ANCHOR SCHEDULE FOR E1						
FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS						
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE			
			SPANS UP TO 4' - 9" (SEE ANCHOR NOTE 1)			
			CONNECTION TYPE			
			1	2	3	
CONCRETE	 1/4" ITW OR ELCO TAPCON W/ 1-3/4" MIN EMBEDMENT (MIN. 3,000 P.S.I. CONCRETE)	48.0	16	16	12	
		62.0	16	16	12	
		67.0	16	16	12	
		72.0	16	15	12	
	 1/4" ELCO MALE/FEMALE "PANELMATE" W/ 1-3/4" MIN EMBED & 1/4-20 MACHINE SCREW WITH NUT (MIN. 3,000 P.S.I. CONCRETE)	48.0	16	16	12	
		62.0	16	16	12	
		67.0	16	16	12	
		72.0	16	16	12	
	 1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW (MIN. 3,000 P.S.I. CONCRETE)	48.0	16	16	12	
		62.0	16	15	12	
		67.0	16	14	12	
		72.0	16	13	12	
 1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN EMBEDMENT (MIN. 3,000 P.S.I. CONCRETE)	48.0	16	16	12		
	62.0	16	12	12		
	67.0	16	11	12		
	72.0	16	10	12		

ANCHOR SCHEDULE FOR E1						
FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS						
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE			
			SPANS UP TO 4' - 9" (SEE ANCHOR NOTE 1)			
			CONNECTION TYPE			
			1	2	3	
HOLLOW CONCRETE BLOCK	 1/4" ITW OR ELCO TAPCON W/ 1-1/4" MIN EMBEDMENT	48.0	16	11	12	
		62.0	14	8	12	
		67.0	13	7	12	
		72.0	12	7	12	
	 1/4" ELCO MALE/FEMALE "PANELMATE" W/ 1-1/4" MIN EMBED & 1/4-20 MACHINE SCREW WITH NUT	48.0	16	15	12	
		62.0	16	12	12	
		67.0	16	11	12	
		72.0	16	10	12	
	 1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	48.0	16	12	12	
		62.0	15	9	12	
		67.0	16	8	12	
		72.0	16	8	12	
 1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN EMBEDMENT	48.0	16	11	12		
	62.0	14	9	12		
	67.0	13	8	12		
	72.0	12	7	12		

ANCHOR SCHEDULE FOR E1					
FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS					
EXISTING STRUCTURE	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DIST.		
			SPANS UP TO 4' - 9" (SEE ANCHOR NOTE 1)		
			CONNECTION TYPE		
			1	2	3
WOOD	 1/4" WOOD LAG SCREW W/ MIN 1-3/4" EMBEDMENT SHEAR PARALLEL OR PERPENDICULAR TO WOOD GRAIN	48.0	12	12	12
		62.0	12	10	12
		67.0	12	9	12
	 1/4" ELCO MALE/FEMALE "PANELMATE" W/ 1-7/8" MIN EMBED & 1/4-20 MACHINE SCREW WITH NUT	48.0	12	12	12
		62.0	12	12	12
		72.0	12	12	12
	 7/16" WOOD BUSHING W/ 7/8" MIN EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	48.0	12		12
		62.0	12		12
		67.0	12		12
		72.0	12		12
		48.0	12		12
		72.0	12		12

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 02-0315.13
 Expiration Date 01/10/07
 By *[Signature]*
 Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE 01/10/2007
 BY *[Signature]*
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-1004.02

- ANCHOR NOTES:**
- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO A MAX. SPAN = 4' - 9" , AND MAX. LOAD = ±72.0 P.S.F.
 - ENTER ANCHOR SCHEDULE 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.
 - ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
 - MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
 - WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
 - WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 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. REMOVABLE ANCHORS ARE REQUIRED FOR DIRECT MOUNT @ 6" O.C OR 12" O.C. MAX. SPACING ONLY. SPACINGS SHALL NOT EXCEED VALUE SPECIFIED IN ANCHOR SCHEDULE. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE SLOT OR KEYHOLE WASHER.
 - 1/4-20 TRUSS HEAD BOLTS MAY BE USED IN LIEU OF 1/4-20 SIDEWALK BOLT IF KEYHOLE WASHERS ARE USED.

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V.J. KNEZEVICH
 PROFESSIONAL ENGINEER
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 DEC 17 2001

revisions	description	COUNTY COMMENTS
no	date	date
1	12/17/01 WAS	10/02/01
scale	AS NOTED	drawn by AV
design by	OLB	checked by VJK
drawing no	01-455	
sheet	5 of 5	