



**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**

**Madden Manufacturing Co., Inc.**  
**1889 N.W. 22 Street**  
**Pompano Beach ,FL 33069**

Your application for Notice of Acceptance (NOA) of:

**0.10" (min.) Clear Polycarbonate w/ Steel or Aluminum Storm Panels System 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.: 01-1004.02**  
**EXPIRES: 01/10/2007**

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: 01/10/2002**

**Madden Manufacturing Co., Inc.**

**ACCEPTANCE No. : 01-1004.02**

**APPROVED : 01/10/2002**

**EXPIRES : 01/10/2007**

**NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS**

**1. SCOPE**

This approves 0.10" (min.) Clear Polycarbonate w/Steel or Aluminum Storm Panels System 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 0.10" (min.) Clear Polycarbonate w/Steel or Aluminum Storm Panels System Shutter, and its components shall be constructed in strict compliance with the following documents: Drawing No. 01-455, titled "Clear Polycarbonate Storm Panel System", prepared by Knezevich & Associates, Inc., dated October 02, 2001, last revision #1 dated December 17, 2001, sheets 1 through 5 of 5, 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 0.10" (min.) Clear Polycarbonate w/Steel or Aluminum Storm Panels System 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".

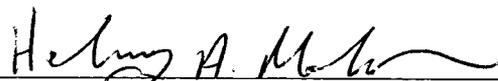
**6. BUILDING PERMIT REQUIREMENTS**

**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

**Madden Manufacturing Co., Inc.**

**ACCEPTANCE No. : 01-1004.02**

**APPROVED : 01/10/2002**

**EXPIRES : 01/10/2007**

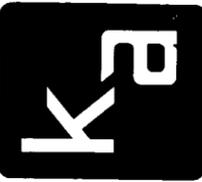
**NOTICE OF ACCEPTANCE: STANDARD CONDITIONS**

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
  - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
  - b. The product is no longer the same product (identical) as the one originally approved.
  - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
  - d. The engineer, who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
  - a. Unsatisfactory performance of this product or process.
  - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer needs not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3. •

**END OF THIS ACCEPTANCE**

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





**KNEZEVICH & ASSOCIATES, INC.**  
 CONSULTING ENGINEERS • PRODUCT TESTING  
 1280 N. UNIVERSITY DRIVE, SUITE 180 • FORT LAUDERDALE, FL 33322  
 TEL: (954) 382-2800 • FAX: (954) 382-2889 • FLORIDA COA #3205  
 WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM  
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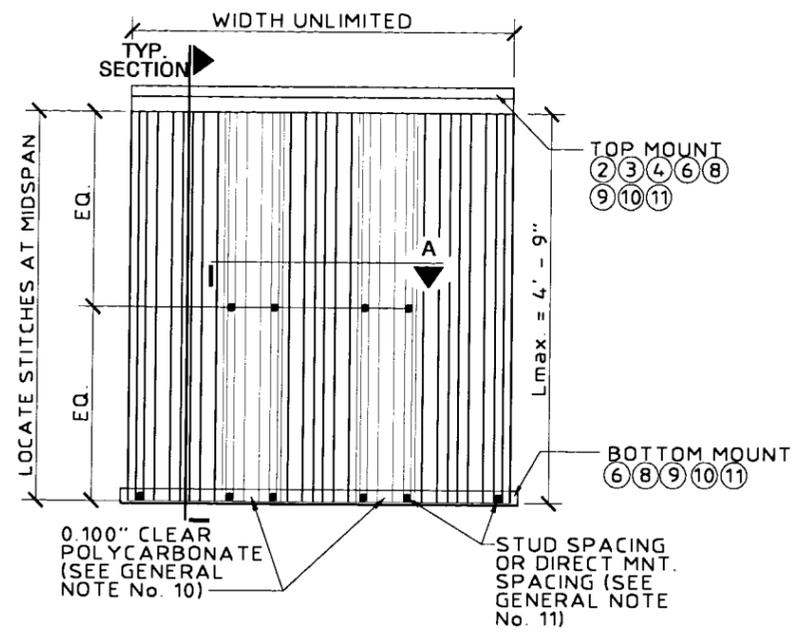
**CLEAR POLYCARBONATE STORM PANEL SYSTEM**  
 1689 N.W. 22nd Street  
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 Phone: (954) 915-2011  
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 www.maddenmetal.com  
**MADDEN**  
 Manufacturing  
 STORM PANELS • RAINBOW PRODUCTS

V.J. KNEZEVICH  
 PROFESSIONAL ENGINEER  
 FL License No: PE 0010983  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-1004.02

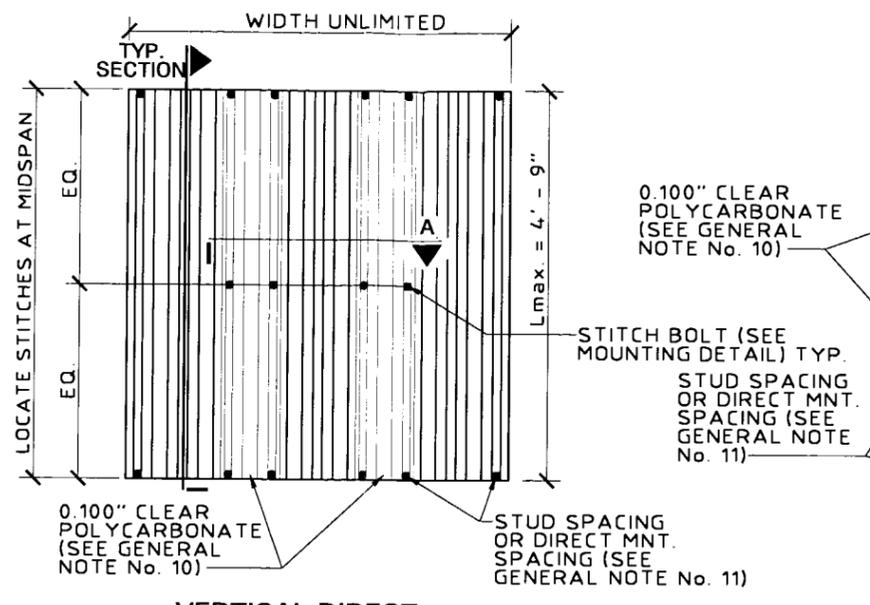
DEC 17 2001

| no. | date     | description | COUNTY COMMENTS |
|-----|----------|-------------|-----------------|
| 1   | 12/17/01 | AS NOTED    |                 |

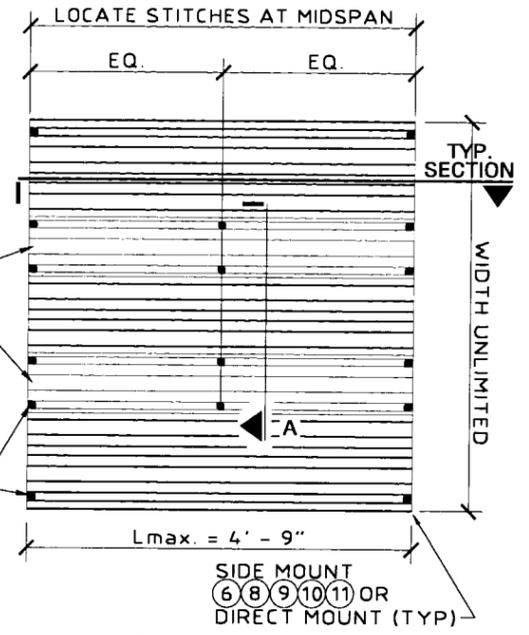
date 10/02/01  
 scale AS NOTED drawn by AV  
 design by OLB checked by VJK  
 drawing no 01-455  
 sheet 2 of 5



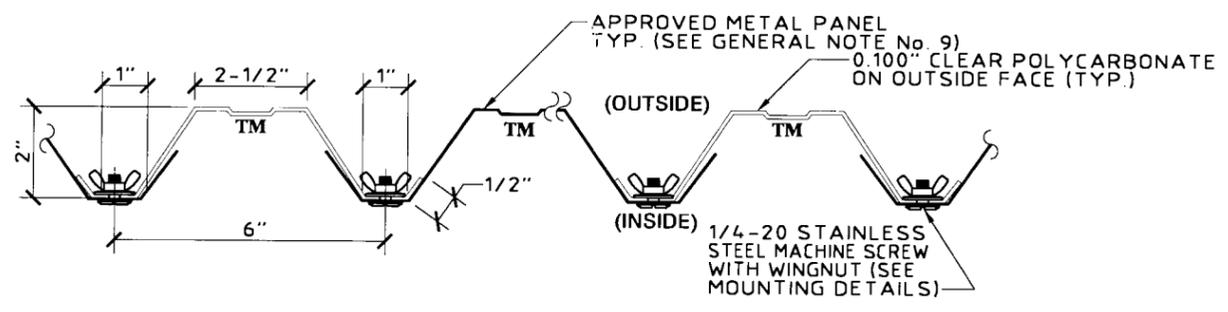
**E1 TYPICAL ELEVATION**  
 SCALE: 1/2" = 1' - 0"



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

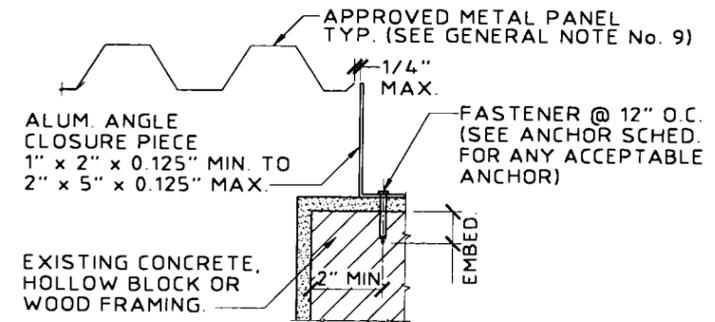


**E3 HORIZONTAL DIRECT MOUNT ELEVATION**  
 SCALE: 1/2" = 1' - 0"

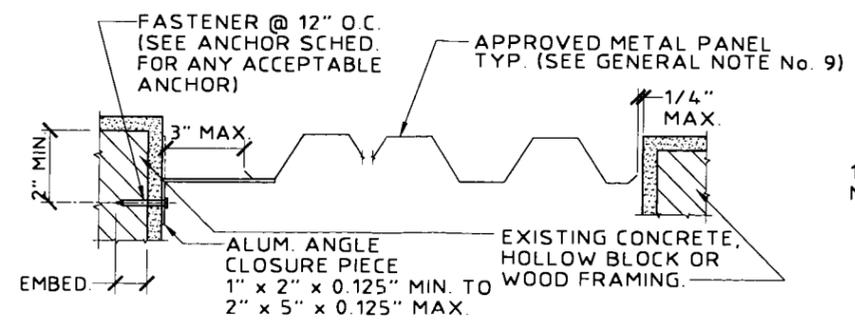


**A PLAN VIEW**  
 SCALE: 3" = 1' - 0"

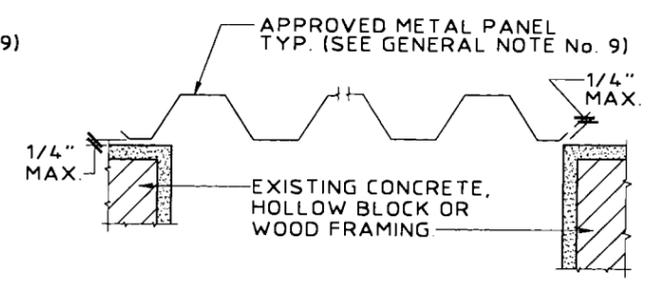
APPROVED AS COMPLYING WITH THE  
 SOUTH FLORIDA BUILDING CODE  
 DATE 01/10/2002  
 BY *Helmut A. Knezevich*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-1004.02



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



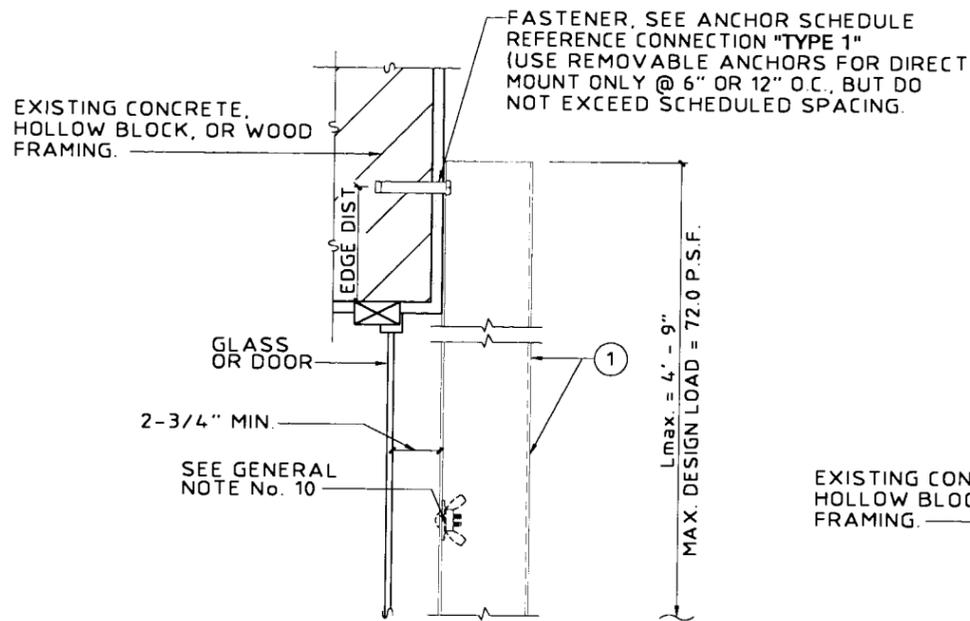
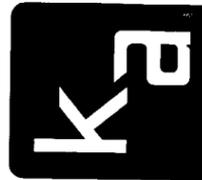
**C TRAP MOUNT CLOSURE DETAIL**  
 SCALE: 1-1/2" = 1' - 0"



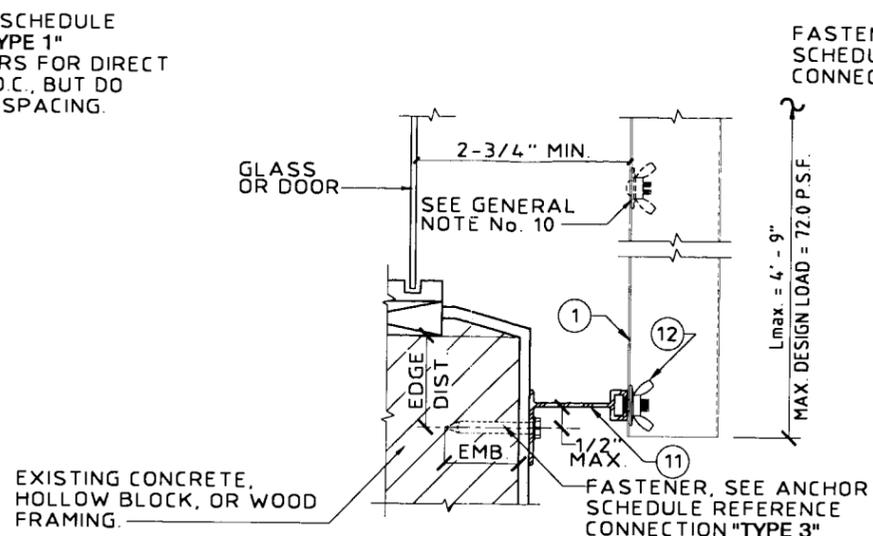
**D WALL MOUNT CLOSURE DETAIL**  
 SCALE: 1-1/2" = 1' - 0"

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

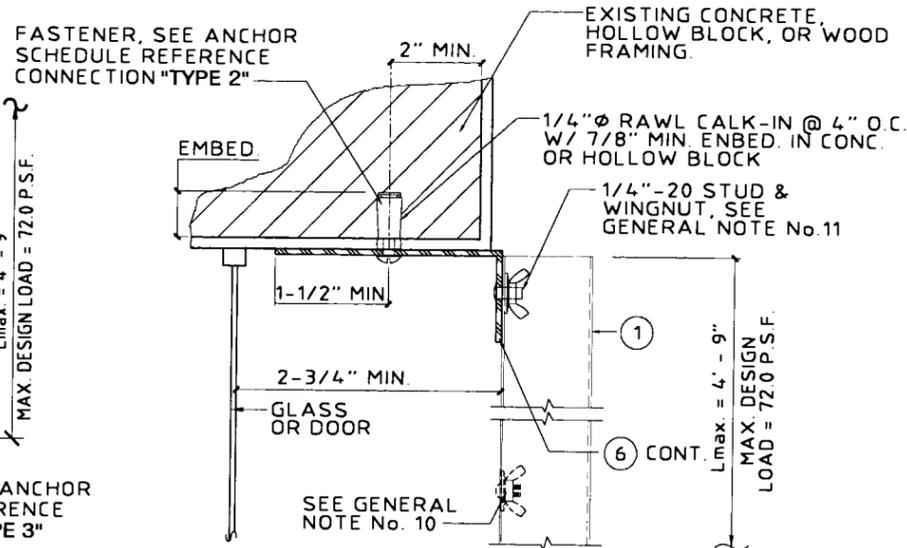




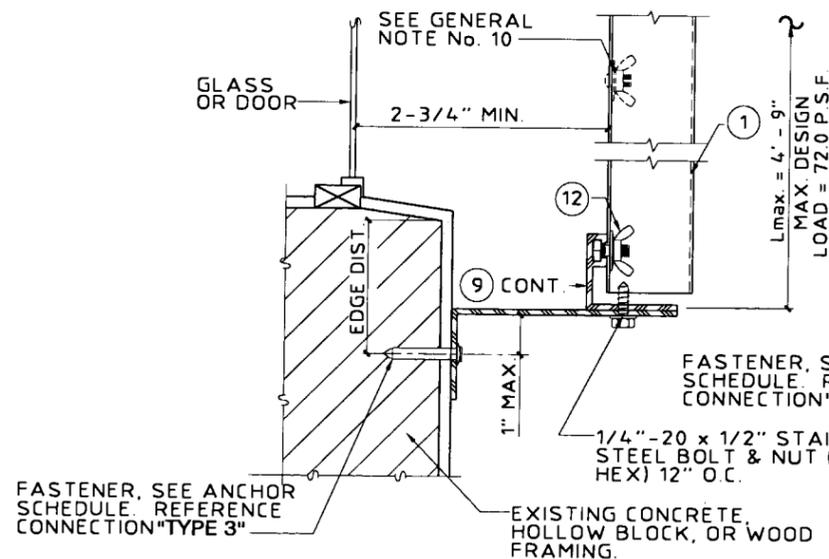
**J** WALL MOUNT SECTION (DIRECT MOUNT)  
SCALE: 3" = 1'-0"



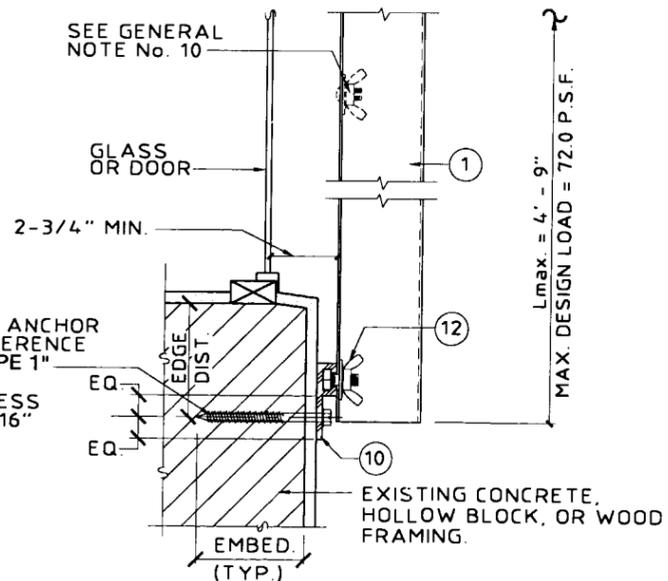
**K** BUILD OUT SECTION (TYP. TOP & BOTTOM)  
SCALE: 3" = 1'-0"



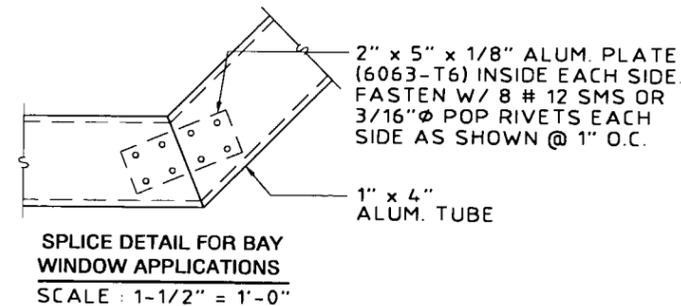
**L** ALT. TRAP MOUNT DETAIL  
SCALE: 3" = 1'-0"



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



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



APPROVED AS COMPLYING WITH THE  
SOUTH FLORIDA BUILDING CODE  
DATE: 01/10/2002  
BY: *Heather A. Mader*  
PRODUCT CONTROL DIVISION  
BUILDING CODE COMPLIANCE OFFICE  
ACCEPTANCE NO. 01-1004-02

**KNEZEVICH & ASSOCIATES, INC.**  
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WEBSITE: WWW.KNEZEVICH.COM • E-MAIL: KA@KNEZEVICH.COM  
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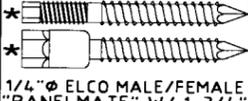
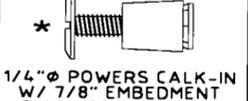
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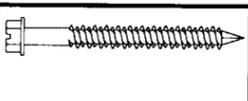
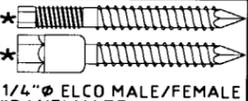
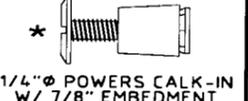
V. J. KNEZEVICH  
PROFESSIONAL ENGINEER  
FL License No.:  
PE 0010983

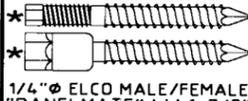
DEC 17 2001

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

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

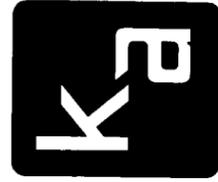
| ANCHOR SCHEDULE FOR E1  |   |                                   |   |    |    |
|---|---|-----------------------------------|---|----|----|
| FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS |   |                                   |   |    |    |
| EXISTING STRUCTURE  | 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  | <br>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 |
|   | <br>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 |
|   | <br>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 |
|   | <br>1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT (MIN. 3,000 P.S.I. CONCRETE)                                      | 72.0                              | 16                                      | 13 | 12 |
|   |   | 48.0                              | 16                                      | 16 | 12 |
|   |   | 62.0                              | 16                                      | 12 | 12 |
|   |   |                                   | 67.0                                    | 16 | 11 |
|   |   | 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   | <br>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 |
|   | <br>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 |
|   | <br>1/4" POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW            | 48.0                              | 16                                      | 12 | 12 |
|   |  | 62.0                              | 16                                      | 9  | 12 |
|   |  | 67.0                              | 16                                      | 8  | 12 |
|   | <br>1/4" POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT                                      | 72.0                              | 16                                      | 8  | 12 |
|   |  | 48.0                              | 16                                      | 11 | 12 |
|   |  | 62.0                              | 14                                      | 9  | 12 |
|   |  |                                   | 67.0                                    | 13 | 8  |
|   |  | 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  | <br>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 |
|   |   | 72.0                              | 12                                      | 9  | 12 |
|   | <br>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 |
|   |   | 67.0                              | 12                                      | 12 | 12 |
|   |   | 72.0                              | 12                                      | 12 | 12 |
|   | <br>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 |

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE  
 DATE 01/10/2007  
 BY *Heung A. Makin*  
 PRODUCT CONTROL DIVISION  
 BUILDING CODE COMPLIANCE OFFICE  
 ACCEPTANCE NO. 01-1004-021

- 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.
  - \*9. 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.
  - \*10. 1/4-20 TRUSS HEAD BOLTS MAY BE USED IN LIEU OF 1/4-20 SIDEWALK BOLT IF  KEYHOLE WASHERS ARE USED.



**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**  
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 Fax (954) 460-0561  
 www.maddenmetal.com

**MADDEN**  
 Manufacturing  
 STORM PANELS • RAINBOW PRODUCTS

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| no. | date     | by  | description | COUNTY COMMENTS |
|-----|----------|-----|-------------|-----------------|
| 1   | 12/17/07 | DLB |             |                 |

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