



**MIAMI-DADE COUNTY**  
**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**

[www.miamidade.gov](http://www.miamidade.gov)

**NOTICE OF ACCEPTANCE (NOA)**

**Master Machines, Inc.**  
**1920 Calumet Street**  
**Clearwater, Florida 33765**

**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: 0.063" (min.) Aluminum Storm Panels Shutter**

**APPROVAL DOCUMENT:** Drawing No. 05062, titled " Brian Pandorf Storm Panels ", sheets 1 & 2 of 2, prepared by William J. McCann, P.E., Consulting Engineer, dated May 18, 2006, last revision dated May 02, 2007, signed and sealed by William J. McCann, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and the approval date by the Miami-Dade County Product Control Division.

**MISSILE IMPACT RATING: Large and Small Missile Impact**

**LABELING:** Each module 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 consists of this page 1, evidence submitted page E-1 as well as approval document mentioned above. The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



*Helmy A. Makar*  
 06/07/2007

**NOA No 06-1116.01**  
**Expiration Date: 06/07/ 2012**  
**Approval Date: 06/07/ 2007**  
 Page 1

**Master Machines, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 05062, titled " Brian Pandorf Storm Panels ", sheets 1 & 2 of 2, prepared by William J. McCann, P.E., Consulting Engineer, dated May 18, 2006, last revision dated May 02, 2007, signed and sealed by William J. McCann, P.E.*

**B. TESTS**

1. *Test reports on Uniform Static Air Pressure Test per TAS 202, along with marked-up drawings and installation diagram of Fix Storm Panel, prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-06-4010, dated May 15, 2006, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Test reports on Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Fix Storm Panel, prepared by Hurricane Engineering & Testing, Inc., Test Report No. HETI-06-4011, dated May 15, 2006, signed and sealed by Rafael E. Droz-Seda, P.E.*

**C. CALCULATIONS**

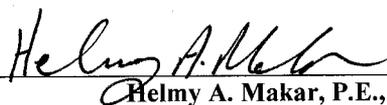
1. *Anchor Calculations, prepared by William J. McCann, P.E., Consulting Engineer, dated May 18, 2006, signed and sealed by William J. McCann, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Building Code Compliance Office.*

**E. MATERIAL CERTIFICATIONS**

1. *Tensile test, prepared by Hurricane Engineering & Testing, Inc., test report No. HETI-06-T553, dated May 18, 2006, signed and sealed by Rafael E. Droz-Seda, P.E.*



Helmy A. Makar, P.E., M.S.  
Product Control Examiner  
NOA No 06-1116.01  
Expiration Date: 06/07/ 2012  
Approval Date: 06/07/ 2007

**GENERAL NOTES:**

1. THIS STORM PANEL SYSTEM WAS TESTED AND EVALUATED AS A LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE.
2. THIS SHUTTER IS MADE OF 0.063" (MINI.) ALUMINUM 5052-H32
3. POSITIVE AND NEGATIVE DESIGN PRESSURES TO BE USED WITH THESE DRAWINGS SHALL BE DETERMINED BY OTHERS FOR SPECIFIC JOBS IN ACCORDANCE WITH THE GOVERNING CODE.
4. THE SHUTTER SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
5. THE BUILDING PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
6. STORM PANELS WERE DESIGNED AND TESTED TO THE MAXIMUM SPAN AND LOADS SHOWN ON THESE DRAWINGS.
7. PANELS SHALL BE MOUNTED HORIZONTALLY ( WITH ANCHORS ONLY ON BOTH SIDES OF OPENING ).
8. ALL BOLTS & WASHERS SHALL BE ZINC COATED, GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 ksi.

**MAXIMUM ALLOWABLE PRESSURES :**

- 66.0 PSF.  
+62.0 PSF

**TESTING No.**

UNIFORM TEST # HETI 06/4010 - MAY- 3, 2006  
IMPACT CYCLE TEST # HETI 06/4011 - MAY- 3, 2006

**MAXIMUM ALLOWABLE SPAN:**

6'-0" DOUBLE PANEL.

**ANCHORS NOTES:**

1. "ELCO PANELMATE" ANCHORS MAY BE: ELCO PANELMATE PLUS, ELCO PANELMATE FEMALE, OR ELCO PANELMATE PRO.
2. MINIMUM EMBEDMENT SHALL BE AS NOTED UNDER "ALLOWABLE ANCHORS" MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHER.
3. ENSURE MINIMUM 2" EDGE DISTANCE FOR CONCRETE & HOLLOW BLOCK ANCHORS .
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
5. 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 HEADS (SIDEWALK BOLT) UNLESS NOTED OTHERWISE.

**BRIAN PANDORF**  
STORM PANELS BY  
MASTER MACHINES, INC  
1920 CALUMET ST.  
CLEAR WATER, FL. 33765  
(727) 442-6343

**WILLIAM J. McCANN, P.E.**  
CONSULTING ENGINEER  
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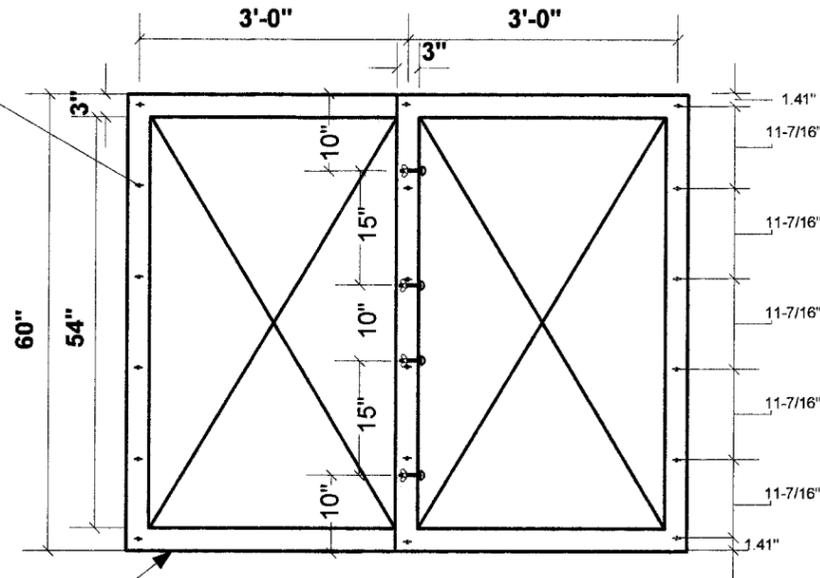
*W. J. McCann*  
5/2/07  
FL. P.E. # 50252

Approved as complying with the  
Florida Building Code  
Date 06/07/2007  
NOA# 06-1116-01  
Miami Code Product Control  
Division  
By *Helmy H. Helmy*

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BUILDING CODE COMPLIANCE  
ADMINISTRATIVE DIVISION

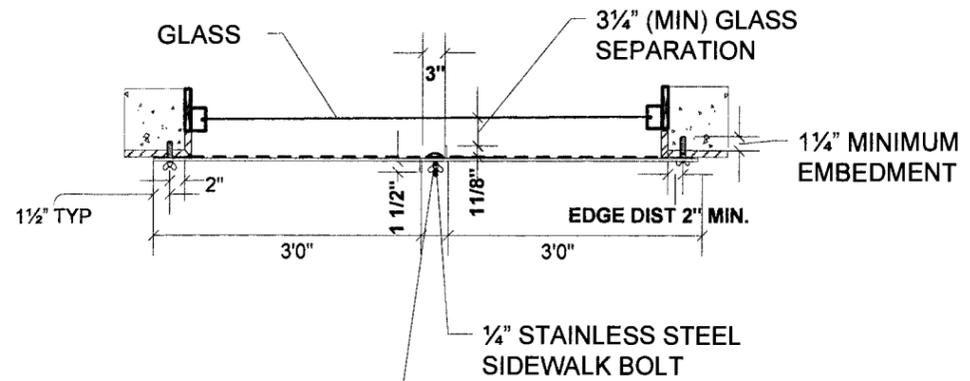
REVISION:	MARCH 8 2007 - 5/2/07
SCALE:	N.T.S.
DRAWN BY:	JOSE PEREZ
DATE:	MAY 18 2006
PROJECT NUMBER:	05062
SHEET NUMBER:	1 OF 2

(6) 3/8" DIAMETER HOLES AT 1 1/2" FROM PANEL EDGE AND 11-7/16" O.C. (TYP)



.063 ALUMINUM

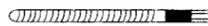
DOUBLE STORM PANEL



Approved as complying with the Florida Building Code  
 Date: 06/07/2007  
 NOA# 06-1116-01  
 Miami Dade Product Control  
 Division  
 By: *Helmy A. M. M.*

ALLOWABLE ANCHORS:

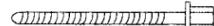
ELCO PANELMATE PLUS



EMBEDMENT

TO CONCRETE: 1 1/4"  
 TO HOLLOW BLOCK: 1 1/4"  
 TO WOOD FRAMING: 2"

ELCO PANELMATE FEMALE



EMBEDMENT

TO CONCRETE: 1 1/4"  
 TO HOLLOW BLOCK: 1 1/4"  
 TO WOOD FRAMING: 1 7/8"

SIDEWALK BOLT



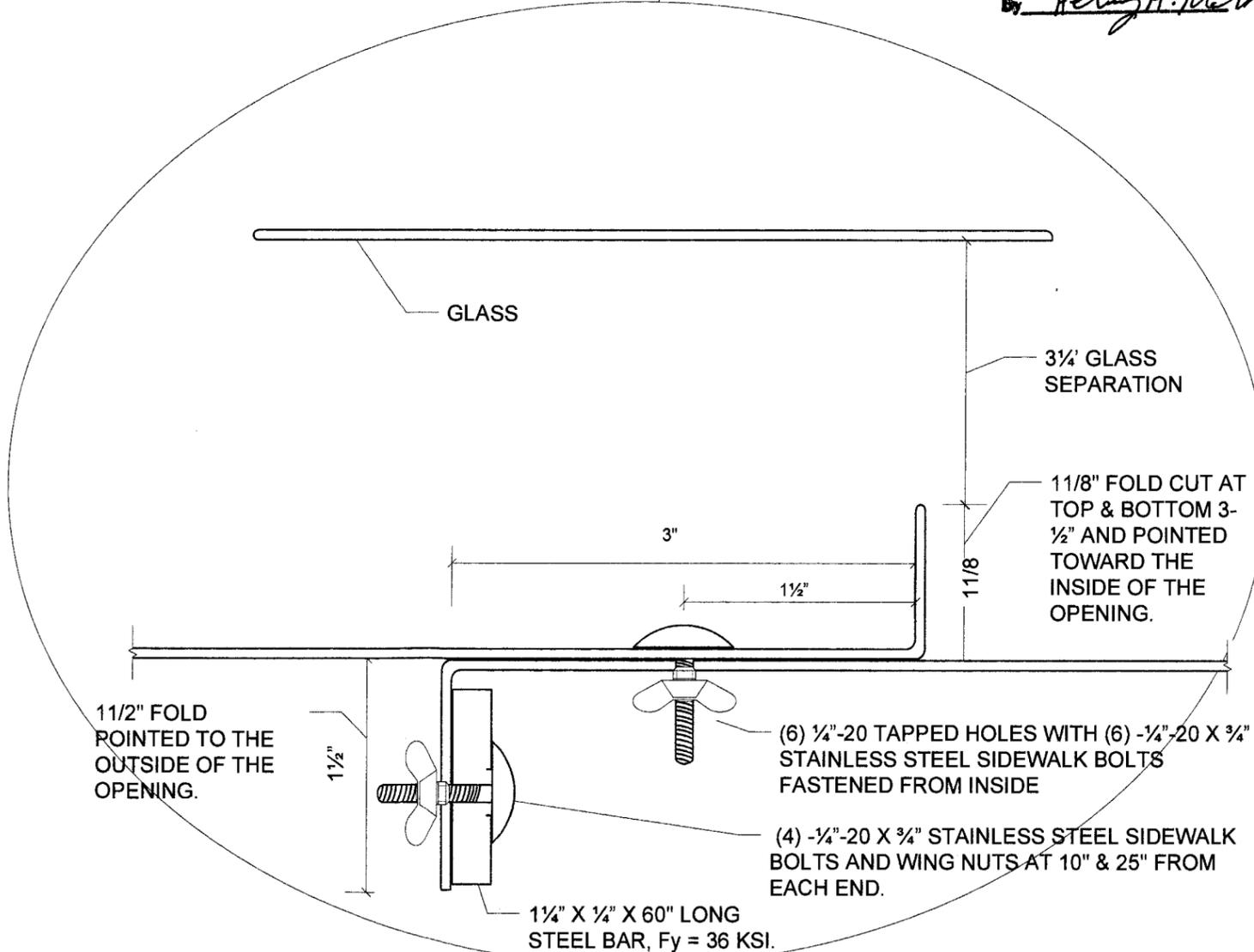
1/4-20 X 3/4" STAINLESS STEEL

ELCO PANELMATE PRO



EMBEDMENT

TO CONCRETE: 1 1/4"  
 TO HOLLOW BLOCK: 1 1/4"  
 TO WOOD FRAMING: 2"



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*W. J. McCann*  
 5/22/07  
 FL. P.E. # 50252

REVISION:  
 MARCH 8 2007 - 5/2/07

SCALE: N.T.S.

DRAWN BY:  
**JOSE PEREZ**

DATE:  
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PROJECT NUMBER:  
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**2**  
 2 OF 2