



**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

NOTICE OF ACCEPTANCE (NOA)

**Exeter Architectural Products
242 West 8th Street
Wyoming, PA 18644**

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: Storm Shield Fixed Hurricane Barrier

APPROVAL DOCUMENT: Drawing No. SSHB-E, titled " Storm Shield Hurricane Barriers ", sheets 1 through 4 of 4, prepared by Exeter Architectural Products, dated September 08, 2008, last revision #R2 dated February 12, 2009, signed & sealed by Thomas H. Maxwell Jr., P.E. bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by 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 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
03/18/2009

**NOA No. 08-1007.05
Expiration Date: 03/18/2014
Approval Date: 03/18/2009
Page 1**

Exeter Architectural Products

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS:

1. *Drawing No. SSHB-E, titled " Storm Shield Hurricane Barriers ", sheets 1 through 4 of 4, prepared by Exeter Architectural Products, dated September 08, 2008, last revision #R2 dated February 12, 2009, signed & sealed by Thomas H. Maxwell Jr., P.E.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Uniform Static Air Pressure Test and Cyclic Wind Pressure Test of Stainless Steel Hurricane Barrier, prepared by Architectural Testing, Report No. 79734.01-109-18, dated 06/13/2008, signed and sealed by Michael D. Stremmel, P.E.*
2. *Test report on Large Missile Impact Test, Uniform Static Air Pressure Test and Cyclic Wind Pressure Test of Galvanealed Hurricane Barrier, prepared by Architectural Testing, Report No. 80719.01-109-18, dated 04/14/2008, signed and sealed by Michael D. Stremmel, P.E.*

C. CALCULATIONS:

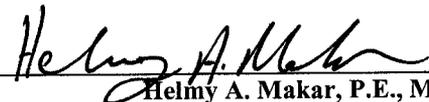
1. *Calculation titled 5' x 7' Single Hurricane Barrier and Anchor analysis, 6 pages, dated 09/24/2008, prepared by Thomas H. Maxwell Jr., P.E. , signed and sealed by Thomas H. Maxwell Jr., P.E.*
2. *Calculation titled Design Pressure Rating, 6 pages, dated 01/22/2009, prepared by Thomas H. Maxwell Jr., P.E. , signed and sealed by Thomas H. Maxwell Jr., P.E.*

D. QUALITY ASSURANCE

1. *By Miami-Dade building Code Compliance Office.*

E. MATERIAL CERTIFICATION:

1. *Tensile Test per ASTM E 8-03, prepared by Architectural Testing, Report No. 79734.01-109-18, dated 06/13/2008, signed and sealed by Michael D. Stremmel, P.E.*
2. *Tensile Test per ASTM E 8-03, prepared by Architectural Testing, Report No. 80719.01-109-18, dated 04/14/2008, signed and sealed by Michael D. Stremmel, P.E..*



Helmy A. Makar, P.E., M.S.
Product Control Examiner
NOA No. 08-1007.05
Expiration Date: 03/18/2014
Approval Date: 03/18/2009

GENERAL NOTES

1. THIS PRODUCT IS DESIGNED AS A HURRICANE/SECURITY SHUTTER
2. THESE PRODUCTS SATISFY THE FOLLOWING TESTING CRITERIA FOR LARGE MISSILE IMPACTS AND WIND LOADS IN ACCORDANCE WITH THE FOLLOWING STANDARDS:
FLORIDA BUILDING CODE HIGH VELOCITY HURRICANE ZONE
(TAS 201-94, TAS 202-94, TAS 203-94)
3. THIS PRODUCT HAS BEEN TESTED PER FLORIDA BUILDING CODE, TEST PROTOCOLS FOR HIGH VELOCITY HURRICANE ZONE, TO PROTOCOLS TAS 201-94, TAS 202-94, AND TAS 203-94.
4. EACH BARRIER SHALL HAVE A PERMANENT LABEL PLACED IN A VISIBLE LOCATION WITH THE FOLLOWING INFORMATION:

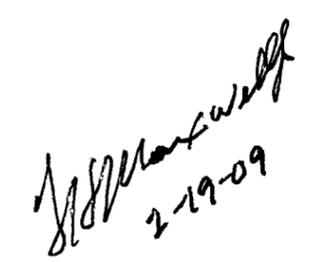
EXETER ARCHITECTURAL PRODUCTS WYOMING, PA MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED	EXETER ARCHITECTURAL PRODUCTS NANTICOKE, PA MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
LABEL SIZE: 2" X 3/4"	ALTERNATE MANUFACTURING LOCATION
5. DESIGN PRESSURE CALCULATIONS SHALL BE PERFORMED BY A REGISTERED ARCHITECT OR PROFESSIONAL ENGINEER IN ACCORDANCE WITH ASCE 7-02. THE ALLOWABLE DESIGN PRESSURES FOR EACH PRODUCT TYPE (APPROVED UNDER THIS N.O.A.) ARE LISTED WITH ITS CORRESPONDING DRAWING.
6. ALL ALUMINUM PARTS ARE MADE FROM 6063 T5 SERIES ALUMINUM. THE PERFORATED PANELS SHALL BE .079" (NOMINAL THICKNESS) GALVANNEALED STEEL WITH AN OPTION FOR .079" (NOMINAL THICKNESS) STAINLESS STEEL. ALL PARTS SHALL BE SUPPLIED WITH A PROTECTIVE FINISH.
7. A FASTENER SCHEDULE FOR EACH PRODUCT CAN BE FOUND ON THE INDIVIDUAL DRAWINGS.
8. BARRIER CONSTRUCTION SHALL BE IN ACCORDANCE WITH DESIGNS AND METHODS SET FORTH BY THE MANUFACTURER CONTAINED HEREIN.
9. TO ENSURE PROPER OPERATION, INSTALLATION SHALL BE PERFORMED USING METHODS AND INSTRUCTIONS SET FORTH BY THE MANUFACTURER CONTAINED WITHIN THESE DRAWINGS.
10. UNITS MUST BE ATTACHED TO CONCRETE OR STRUCTURAL COMPONENTS OF THE BUILDING. OUTER WALL COVERINGS OR DECORATIVE ATTACHMENTS THAT ARE NOT PART OF THE BUILDING STRUCTURE ARE NOT SUITABLE FOR MOUNTING.

DRAWING INDEX

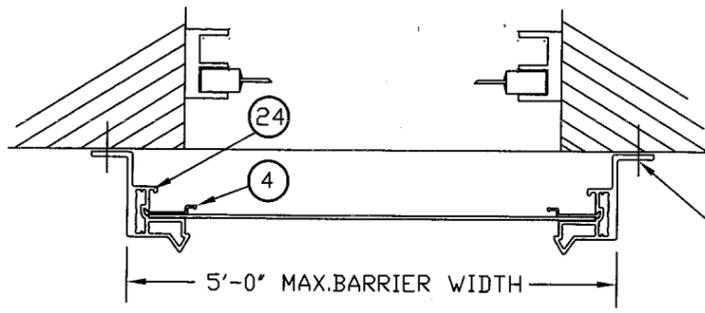
PAGE 1 OF 4 - GENERAL NOTES/INDEX
5 X 7 FIXED (ENHANCED)
 PAGE 2 OF 4 - 5' X 7' FIXED, FACE MOUNT UNIT.
MATERIALS & FASTENER SCHEDULE
 PAGE 3 OF 4 - SUBFRAME ASSEMBLY DETAILS
 PAGE 4 OF 4 - COMPONENT/EXTRUSION DETAILS.

CONSULTING ENGINEER
 THOMAS H. MAXWELL JR., P.E.
 121 N.W. 39 AVE.
 MIAMI, FLORIDA 33126
 (305) 541-7549

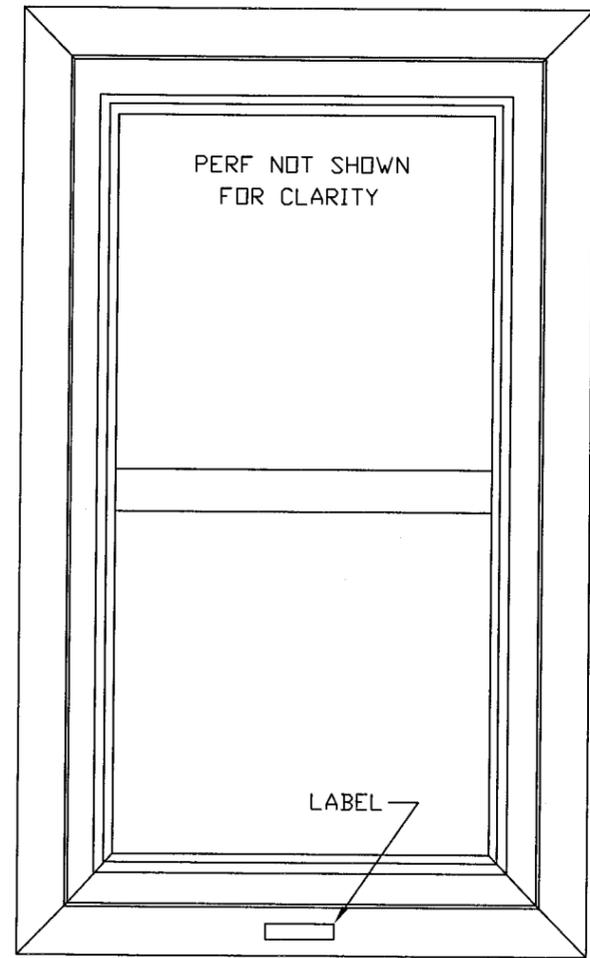
Board of Professional Engineers
 Exam: Mechanical-Structural: 1965
 State of Florida P.E. Registration
 No. 10150
 U.S. Army Corps of Engineers:
 Civil-Structural Engineer
 Florida Power & Light Company:
 Electrical Engineer

Approved as complying with the Florida Building Code Date: <u>03/18/2009</u> NOA# <u>08-1007.05</u> Miami Dade Product Control Division By: <u>Helmut A. M...</u>	
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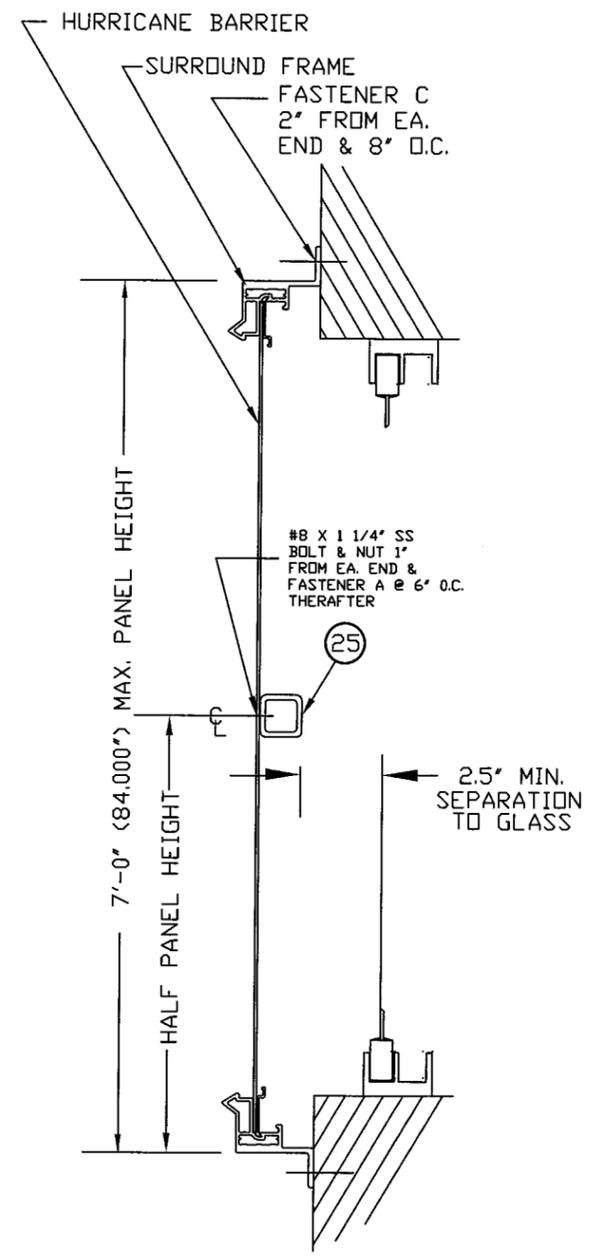
TITLE/CUSTOMER		STORM SHIELD HURRICANE BARRIERS DRAWING INDEX/NOTES	
SCALE:	NTS		DRAWN BY: RBM
DATE:	9/8/08		REVISED R2 2/12/09
242 W. 8TH ST. WYOMING PA 18644		WWW.STORMSHIELD.NET	800-972-2478 FAX (570) 693-2575
PRODUCT CONTROL CODE:		DRAWING NO. SSHB-E	PAGE 1 OF 4



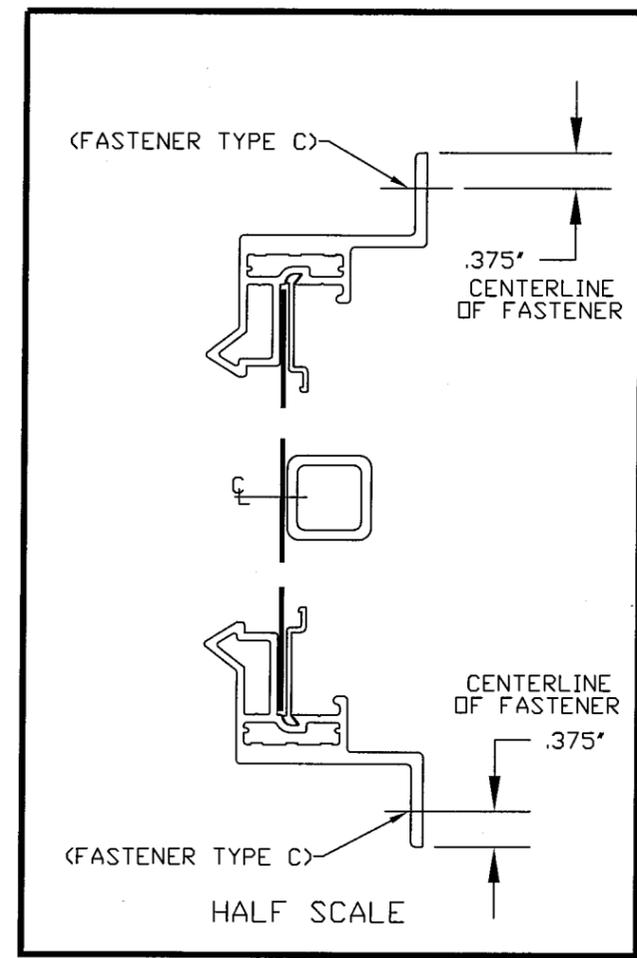
PLAN OF OPENING



ELEVATION



SECTION



HALF SCALE

MID HEIGHT TUBE REQUIRED

MAT. TYPE	DESIGN PRESSURE RATING	
	POS. (PSF.)	NEG. (PSF.)
GALVANNEAL	80.00	80.00
STAINLESS STEEL	108.00	108.00

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Board of Professional Engineers
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 State of Florida P.E. Registration
 No. 10150
 U.S. Army Corps of Engineers:
 Civil-Structural Engineer
 Florida Power & Light Company:
 Electrical Engineer

Approved as complying with the
 Florida Building Code
 Date: 03/18/2009
 NOA# 08-1067-05
 Miami Dade Product Control
 Division
 By: *Helene A. [Signature]*

JHM Maxwell Jr.
 2-19-09

- NOTES:
- FASTENER TYPE A: #10 X 5/8" SS TEK SCREW
 - FASTENER TYPE B: #10 X 3/4" SS TEK SCREW
 - FASTENER TYPE C: 1/4"Ø X 1 3/4" ELCO TAPCON WITH 1.75" MINIMUM EMBEDMENT WITH FILLED CELLS.
 - FOR SECURITY PURPOSES, THE 1" LEG CAN BE TURNED IN TO CONCEAL FASTENERS IF DESIRED.

TITLE/CUSTOMER
 DETAILS FOR STORM SHIELD HURRICANE BARRIER
 5' X 7' SINGLE FIXED

SCALE: NTS
 DATE: 9/8/08

WWW.STORMSHIELD.NET

EXETER
 ARCHITECTURAL PRODUCTS

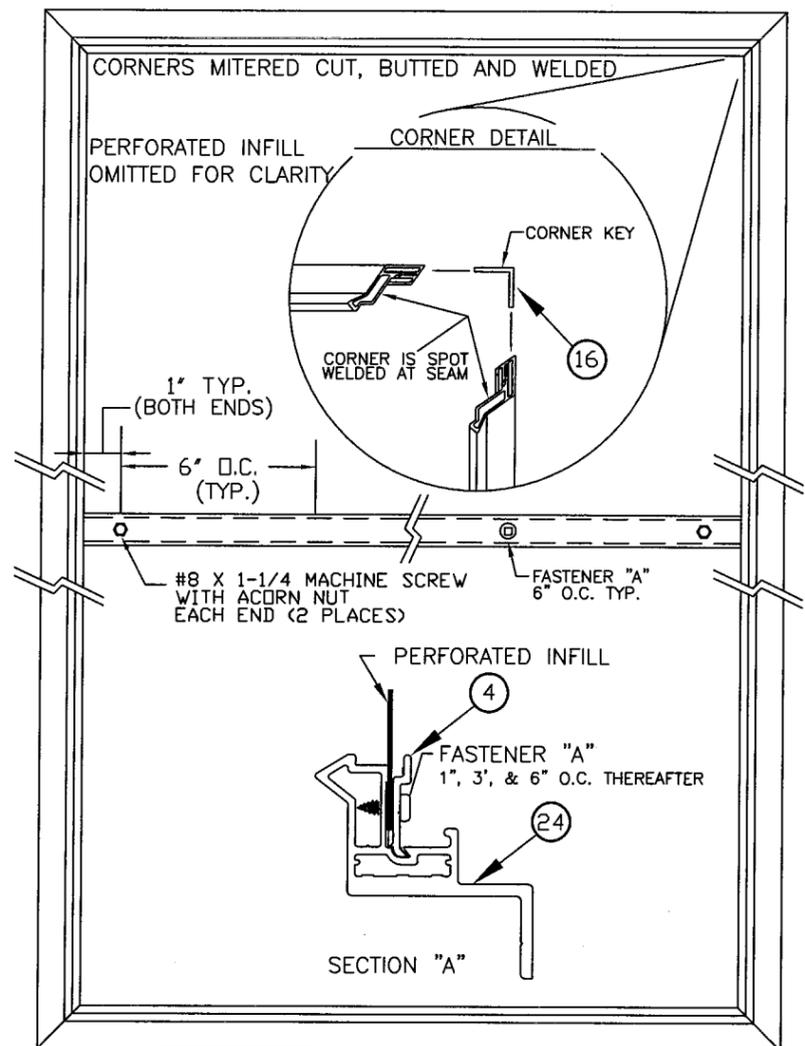
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 REVISED: R2 2/12/09

242 W. 8TH ST.
 WYOMING PA 18644

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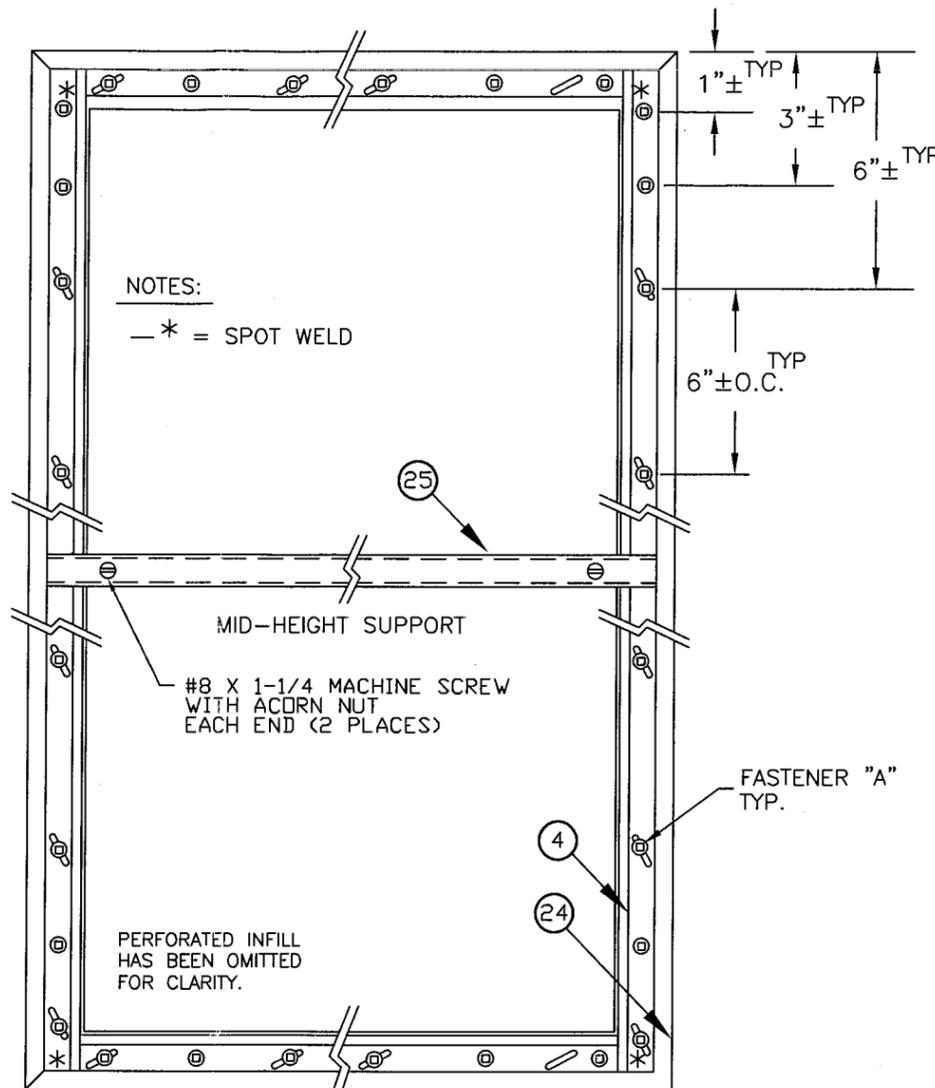
PRODUCT CONTROL CODE:
 DRAWING NO. SSHB-E
 PAGE 2 OF 4

HURRICANE BARRIER SUBFRAME ASSEMBLY DETAILS



PANEL FRONT

FRONT



PANEL REAR

NOTES:
 - * = SPOT WELD

1 X 1 X 1/8 MIDHEIGHT SUPPORT:
 REQUIRED AS SHOWN ON OTHER DRAWINGS

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 Florid Power & Light Company:
 Electrical Engineer

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 Miami Dade Product Control
 Division
 By *Helmy A. M...*

T.H. Maxwell Jr.
 2-19-09

HARDWARE
 FASTENER A



FASTENER A
 #10X5/8"
 1' & 3' FROM CORNER
 AND 6" O.C. THEREAFTER



MACHINE SCREW
 #8 X 1-1/4 SS
 WITH ACORN NUT
 AT END OF MID-HEIGHT SUPP.

TITLE/CUSTOMER
 HURRICANE BARRIER SUBFRAME ASSEMBLY DETAILS
 5' X 7' SINGLE FIXED

SCALE: NTS

DATE: 9/8/08

WWW.STORMSHIELD.NET



242 W. 8TH ST.
 WYOMING PA 18644

PRODUCT CONTROL CODE:

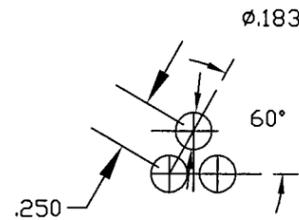
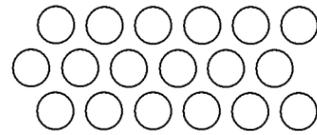
DRAWN BY: RBM

REVISED
 R2 2/12/09

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DRAWING NO. SSHB-E

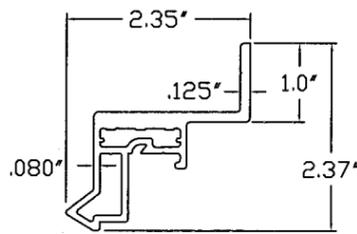
PAGE 3 OF 4



PERFORATED PATTERN:
INVISIPERF II
FULL SCALE

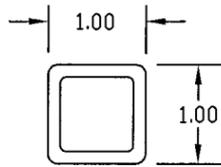
MATERIAL:
.079" (NOMINAL THICKNESS)
GALVANNEALED STEEL
STRUCTURAL QUALITY GRADE
33 WITH A60 GALVANNEAL
COATING PER ASTM A653
FINISHED WITH POLYESTER
POWDER COAT.
.0705" (MIN. THICKNESS)

OPTIONAL MATERIAL:
.079" (NOMINAL THICKNESS)
STAINLESS STEEL
PREPARED USING
ASTM A240 SPECIFICATION,
WITH THESE MIN. REQUIREMENTS
-TENSILE STRENGTH - 75 ksi. MIN.
-YIELD STRENGTH - 30 ksi. MIN.
-ELONGATION - 40% IN 2" MIN.
-HARDNESS - 92 rb MAX.
FINISHED WITH WEATHER
RESISTANT, HIGH PERFORMANCE
ELECTRO-STATIC APPLIED
COATING.
.0711" (MIN. THICKNESS)



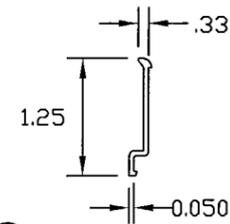
1x2 FIXED SUBFRAME COMBO

(24) TYP. WALL .125
6063 T5 ALLOY



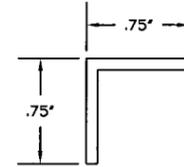
(25) MID-HEIGHT SUPPORT TUBE

TYP. WALL .063
6063 T5 ALLOY



(4) BARRIER RAIL

TYP. WALL 0.050
6063 T5 ALLOY



(16) CORNER KEY

TYP. WALL = .095
6063 T5 ALLOY
(INTERNAL PART)

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Miami Dade Product Control
Division
By Heung A. Huh

TH Maxwell
2-19-09

TITLE/CUSTOMER		DETAILS FOR STORM SHIELD HURRICANE BARRIER 5' X 7' SINGLE FIXED	
SCALE:	NTS	 WWW.STORMSHIELD.NET	DRAWN BY: RBM
DATE:	9/8/08		REVISED R2 2/12/09
242 W. 8TH ST. WYOMING PA 18644		800-972-2478 FAX (570) 693-2575	DRAWING NO. SSHB-E
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