



**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)

**Protech Screens, Inc.
2425 Roy Road
Pearland, TX 77581**

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: 0.028" Stainless Steel Hurricane Window Screen

APPROVAL DOCUMENT: Drawing No. 02-623R1, titled "Hurricane Screen Shutter", sheets 1 through 5 of 5, prepared by EngCo, Inc., revision #1, dated April 25, 2003, signed and sealed by Pedro De Figueiredo, P.E., bearing the Miami-Dade County Product Control Revision 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 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 revises NOA #2-0212.06 and consists of this page 1, evidence submitted page(s) as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

Helmy A. Makar
12/11/03

**NOA No 03-0528.01
Expiration Date: 08/22/ 2007
Approval Date: 12/11/ 2003**



Protech Screens, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0212.06

A. DRAWINGS

1. *Manufacturer's die drawings and sections.*
2. *Drawing No. 02-623, titled "Hurricane Screen Shutter", sheets 1 through 3, prepared by EngCo, Inc., dated 5/22/02, signed and sealed by Pedro De Figueiredo, P.E.*

B. TESTS

1. *Test reports on 1)Uniform Static Air Pressure Test, Loading per SFBC PA 202-94
2) Cyclic Wind Pressure Loading per SFBC, PA 203-94
3) Large Missile Impact Test per SFBC, PA 201-94
along with marked-up drawings and installation diagram of an aluminum hurricane screen shutter with a stainless steel screen, prepared by Hurricane Testing Laboratories, Test Report No. 0203-1221-01, dated 12/17/01, signed and sealed by Vinu Abraham, P.E.*

C. CALCULATIONS

1. *Anchor Calculations and structural analysis, prepared by EngCo, Inc., dated 5/28/02, signed and sealed by Pedro De Figueiredo, P.E.*

D. MATERIAL CERTIFICATIONS

1. *None*

E. STATEMENTS

1. *Statement letter of conformance and no financial interest, dated 5/31/02, signed and sealed by Pedro De Figueiredo, P.E.*

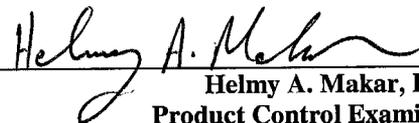
F. OTHER

1. *Letter from Pistorino & Alam Consulting Engineers, Inc.*

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Manufacturer's die drawings and sections.*
2. *Drawing No. 02-623R1, titled "Hurricane Screen Shutter", sheets 1 through 5 of 5, prepared by EngCo, Inc., revision #1, dated April 25, 2003, signed and sealed by Pedro De Figueiredo, P.E.,*



Helmy A. Makar, P.E.
Product Control Examiner
NOA No 03-0528.01
Expiration Date: 08/22/ 2007
Approval Date: 12/11/ 2003

Protech Screens, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "F" Frame Operable Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-02-150, dated May 19, 2003, signed and sealed by Abdol H. Rezadad, P.E.*
2. *Test reports on Uniform Static Air Pressure Test per TAS 202, Cyclic Wind Pressure per TAS 203, and Large Missile Impact Test per TAS 201 along with marked-up drawings and installation diagram of Series "L" Frame Triple Milled Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-03-028, dated May 6, 2003, signed and sealed by Abdol H. Rezadad, P.E.*

C. CALCULATIONS

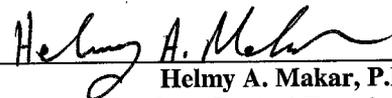
1. *Anchor Calculations and structural analysis, 20 pages, prepared by EngCo, Inc., dated May 13, 2003, signed and sealed by Pedro De Figueiredo, P.E.*
2. *Anchor Calculations and structural analysis, 6 pages, prepared by EngCo, Inc., dated June 3, 2002, signed and sealed by Pedro De Figueiredo, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None*



Helmy A. Makar, P.E.
Product Control Examiner
NOA No 03-0528.01
Expiration Date: 08/22/ 2007
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GENERAL NOTES:

1- DEFINITION: THIS PRODUCT IS A HURRICANE WINDOW SCREEN, TESTED AND DESIGNED TO PROTECT A GLAZING OPENING, PROVIDING PROTECTION FROM LARGE MISSILE FLYING DEBRIS WITH THE ALLOWABLE DESIGNED PRESSURES AND SIZES STATED IN THIS APPROVAL.

2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2001 EDITION, (HIGH WIND VELOCITY ZONES).

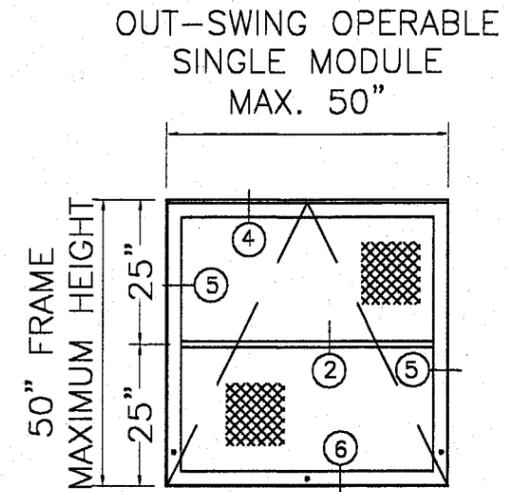
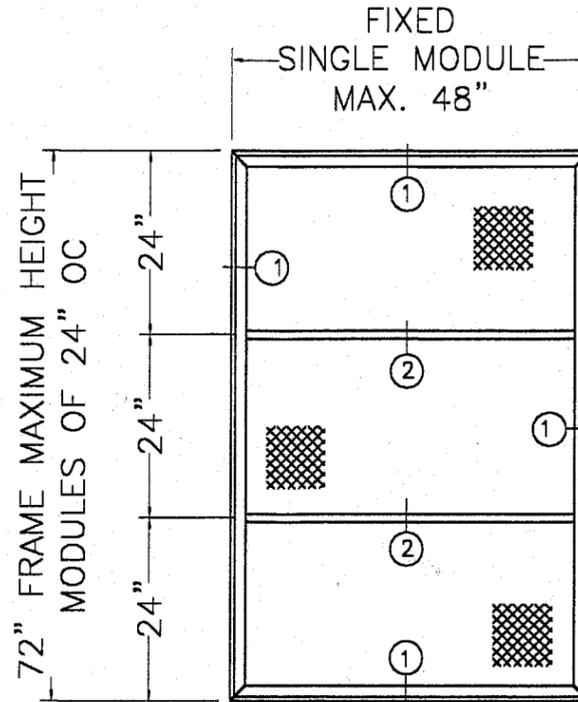
3- LABELING: A PERMANENT LEGIBLE LABEL SHALL BE PLACED AT EACH MODULE AT A VISIBLE LOCATION STATING THE FOLLOWING:
 PROTECH SCREEN, INC.
 MIAMI - FLORIDA
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED'

4- LOADS: WIND PRESSURE CALCULATIONS SHALL BE PERFORMED BY A PROFESSIONAL ARCHITECT OR ENGINEER IN ACCORDANCE WITH ASCE 7-98.

5- MATERIAL: ALL ALUMINUM COMPONENTS SHALL BE EXTRUDED SHAPES 6063-T5 OR AS NOTED.

6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.

7- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, LAG SCREWS WITH 1/3 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED.

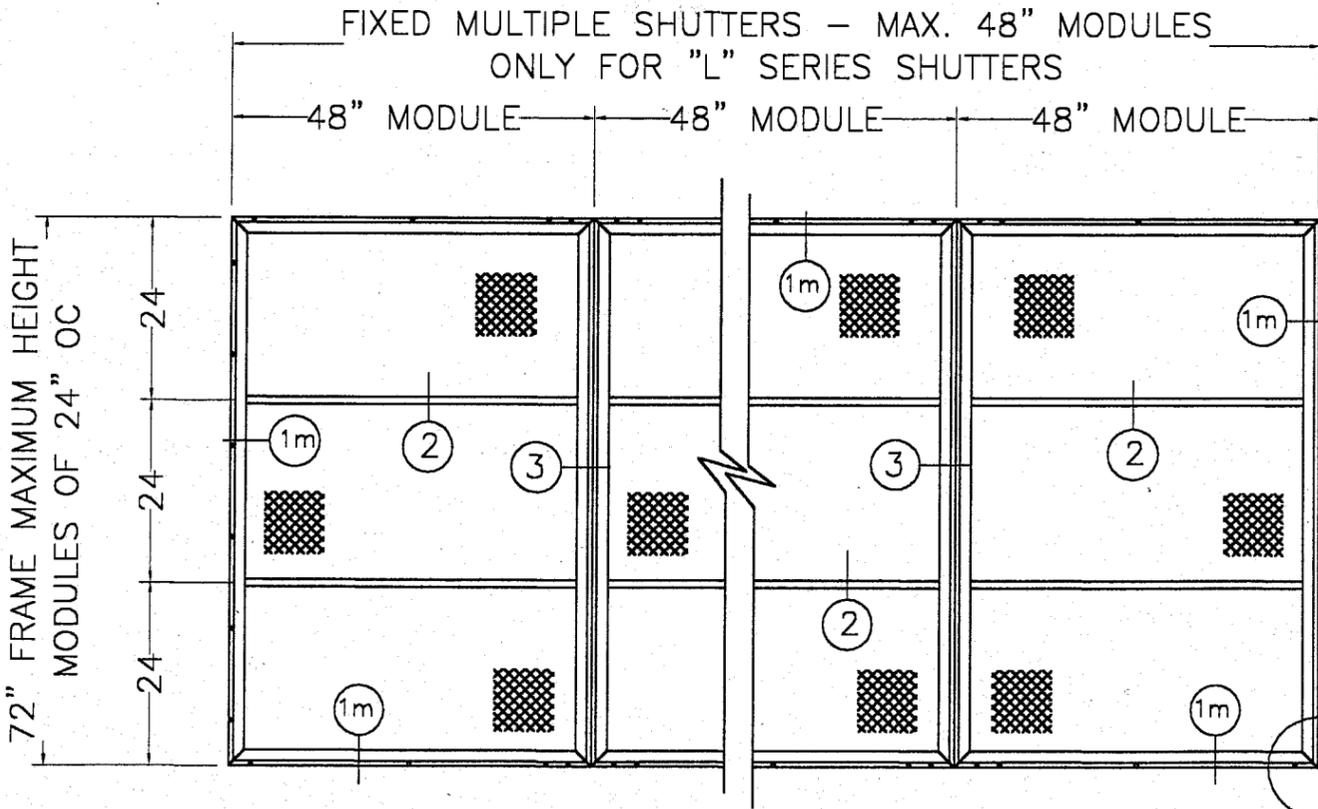


NOTES:

- 1- PRODUCT CAN BE INSTALLED ROTATED.
- 2- #12X.028 - 40% POROSITY (SCREEN)
- 3- MULTIPLE MODULES ARE APPLICABLE ONLY FOR "L" SERIES SHUTTERS.

DESIGNED PRESSURES:

- FIXED Z SERIES - Pd= +52 -52 PSF
- FIXED L SERIES - Pd= +55 -60 PSF
- FIXED F SERIES - Pd= +53 -58 PSF
- OPERABLE F SERIES - Pd= ±88 PSF



SEE TYP. CORNER DETAILS ON SHEET 5 OF 5

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0528-01
 Expiration Date 08/22/2007
 By: *Heather A. Miller*
 Miami Dade Product Control
 Division

Manufacturer:
**Protech
 Screens,
 Inc.**

2425 ROY ROAD
 PEARLAND - TEXAS
 Tel.: (281) 485 2300
 Fax.: (281) 485 8837

Product:
**HURRICANE
 SCREEN
 SHUTTER**

Engineering:
EngCo Inc.

CA 8116
 6971 W. Sunrise Blvd. 104
 Plantation, Fl. 33313
 Tel.: (954) 585-0304

NOV 13 2003

Engineer Seal
 Pedro De Figueiredo
 PE 52609

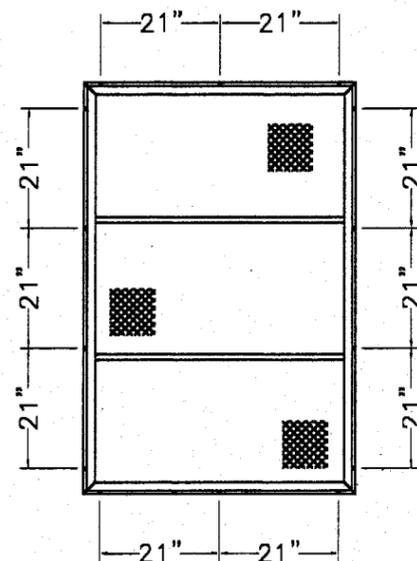
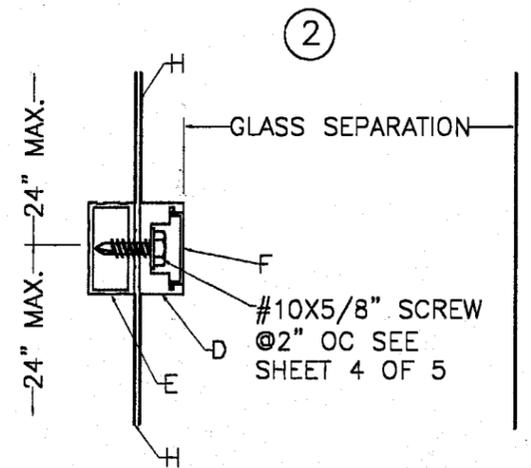
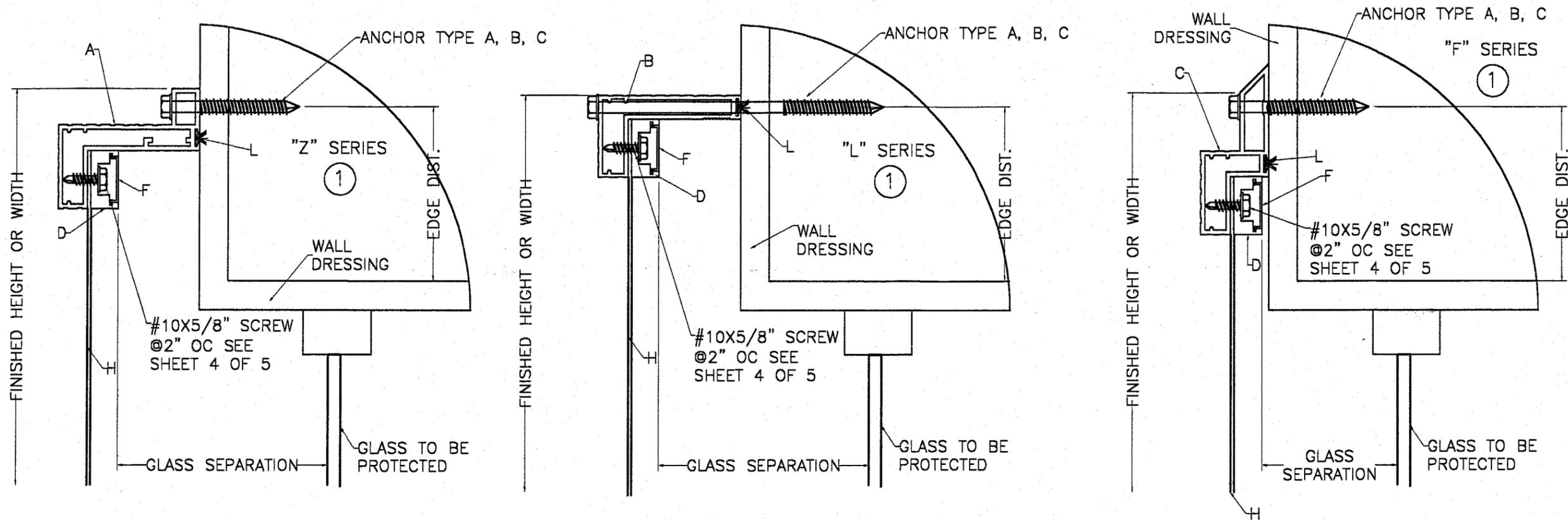
Date: 4/25/03
 Scale: NA
 Design by: PPMF

Revision:
 1 Replaces 02-623
 Dwg

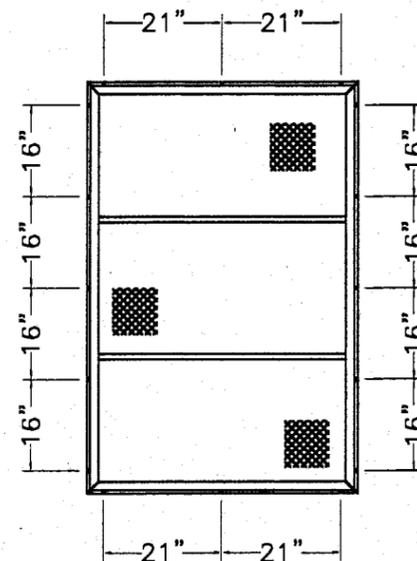
Drawing Number
 02-623R1

Sheet
 1 of 5

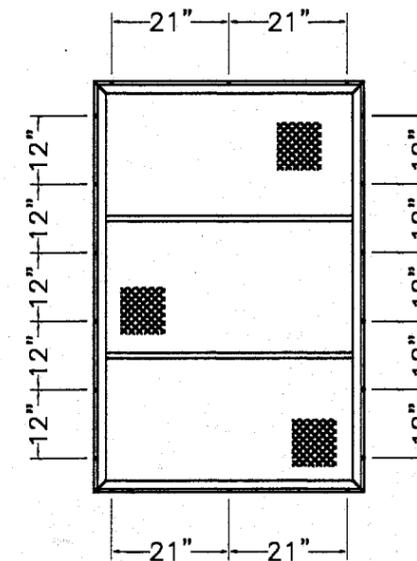
FIXED SINGLE MODULES



ANCHORS SPACING
INSTALLATION INTO CONCRETE
ALL TRACKS
INSTALLATION INTO WOOD
ALL TRACKS
INSTALLATION INTO HOLLOW BLOCK
"F" TRACK ONLY



ANCHORS SPACING
INSTALLATION INTO HOLLOW BLOCK
"Z" TRACK ONLY



ANCHORS SPACING
INSTALLATION INTO HOLLOW BLOCK
"L" TRACK ONLY

GLASS SEPARATION: (SINGLE UNIT)		
FRAMING -	ELEVATION <= 30'	ELEVATION > 30'
Z SERIES -	2 3/4"	2 3/8"
L SERIES -	3 5/8"	2 1/2"
F SERIES -	2 7/8"	2 1/8"

ANCHORS:

TYPE	DESCRIPTION	SUBSTRATUM	MIN. EMBED.
A	1/4" TAPCON	MIN. 3320 PSI CONCRETE	1 3/4"
B	1/4" TAPCON	CONCRETE HOLLOW BLOCK	1 1/4"
C	1/4" LAG SCREW	WOOD WITH SG >= .55	1 1/2"

EDGE DISTANCE:

SUBSTRATUM	EDGE DISTANCE
CONCRETE	3"
BLOCK	3"
WOOD	3/4"
METAL	3/4"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0528-01
Expiration Date 08/22/2007
By *Helmut A. Nelson*
Miami Dade Product Control
Division

Manufacturer:
**Protech
Screens,
Inc.**

2425 ROY ROAD
PEARLAND - TEXAS
Tel.: (281) 485 2300
Fax.: (281) 485 8837

Product:
**HURRICANE
SCREEN
SHUTTER**

Engineering:
EngCo Inc.

CA 8116
6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304

NOV 13 2003

Engineer Seal
Pedro De Figueiredo
PE 52609

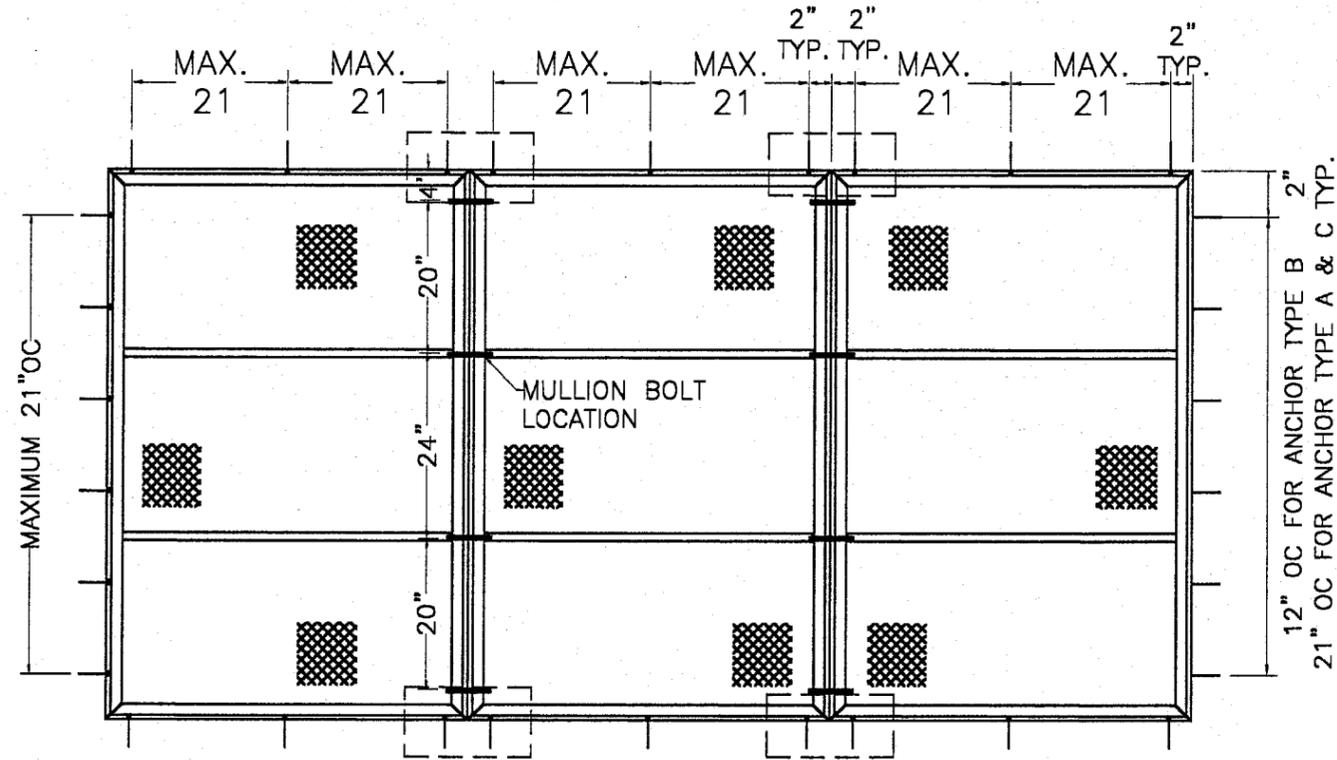
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Design by: PPMF

Revision:
1 Replaces 02-623
Dwg

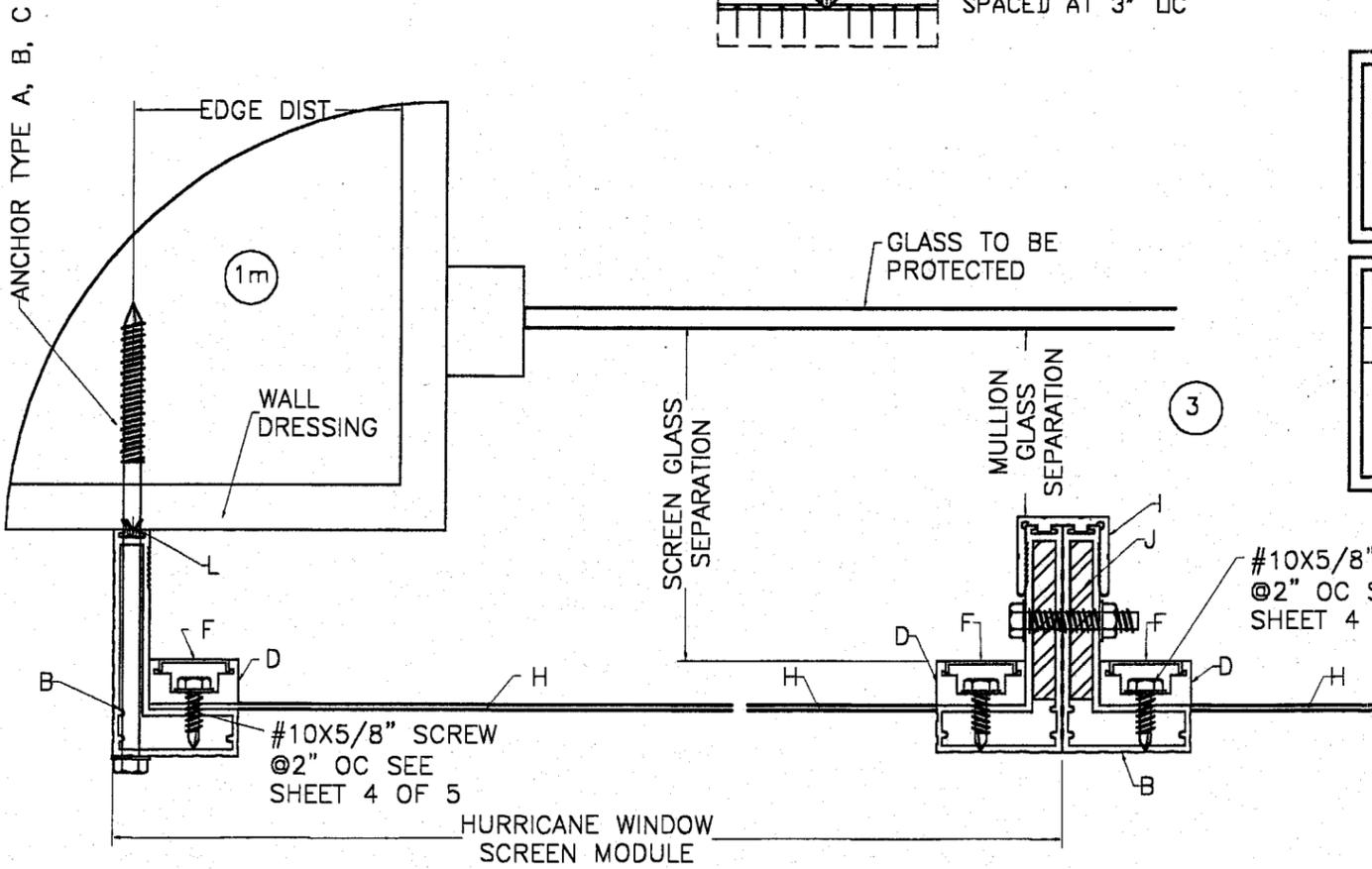
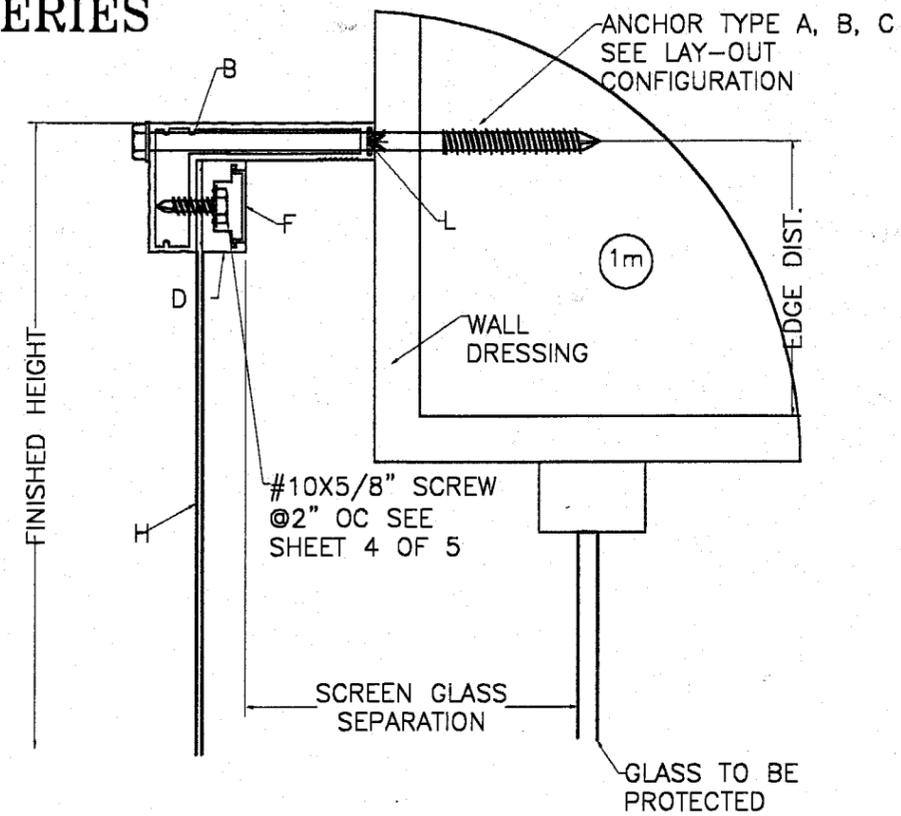
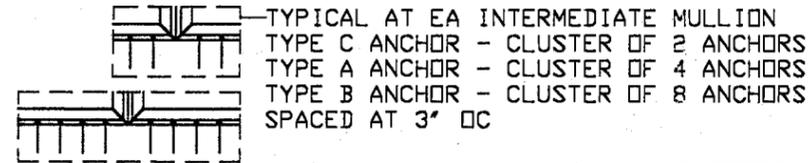
Drawing Number
02-623R1

Sheet
2 of 5

FIXED MULTIPLE MODULES APPLICABLE ONLY FOR "L" SERIES



ANCHORS SPACING - "L" TRACK ONLY
INSTALLATION INTO HOLLOW BLOCK, CONCRETE OR WOOD



GLASS SEPARATION: (MULTIPLE UNITS)	
FRAMING - ELEVATION <= 30'	- ELEVATION > 30'
MULLION - 2"	1 3/8"
SCREEN - 4 1/4"	2 5/8"

ANCHORS:			
TYPE	DESCRIPTION	SUBSTRATUM	MIN. EMBED.
A	1/4" TAPCON	MIN. 3320 PSI CONCRETE	1 3/4"
B	1/4" TAPCON	CONCRETE HOLLOW BLOCK	1 1/4"
C	1/4" LAG SCREW	WOOD WITH SG >= .55	1 1/2"

EDGE DISTANCE:	
SUBSTRATUM	EDGE DISTANCE
CONCRETE	3"
BLOCK	3"
WOOD	3/4"
METAL	3/4"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0528.01
Expiration Date 08/22/2007
By *Helmy A. Mohr*
Miami Dade Product Control
Division

Manufacturer:
**Protech
Screens,
Inc.**
2425 ROY ROAD
PEARLAND - TEXAS
Tel.: (281) 485 2300
Fax.: (281) 485 8837

Product:
**HURRICANE
SCREEN
SHUTTER**

Engineering:
EngCo Inc.
CA 8116
6971 W. Sunrise Blvd. 104
Plantation, FL 33313
Tel.: (954) 585-0304

[Signature]

NOV 13 2003
Engineer Seal
Pedro De Figueiredo
PE 52609

Date: 4/25/03
Scale: NA
Design by: PPMF

Revision:
1 Replaces 02-623
Dwg

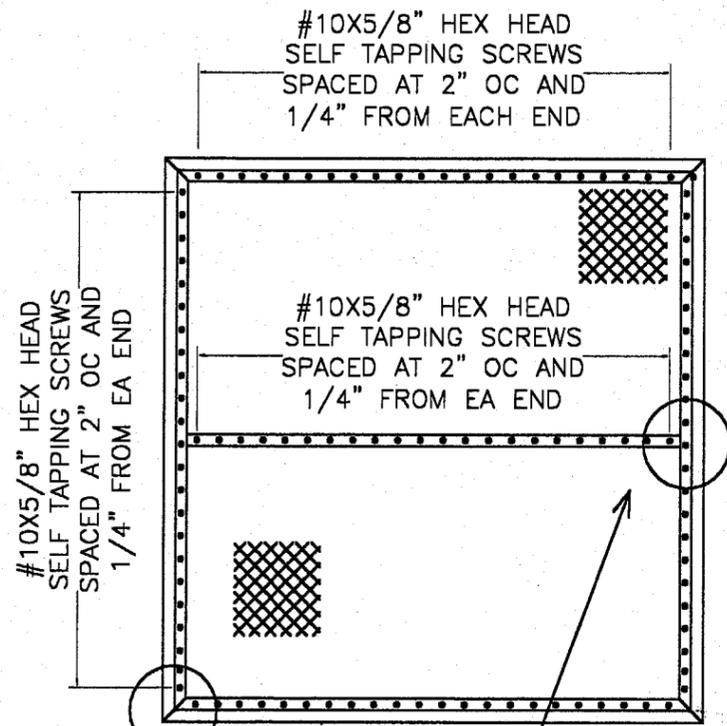
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02-623R1

Sheet
3 of 5

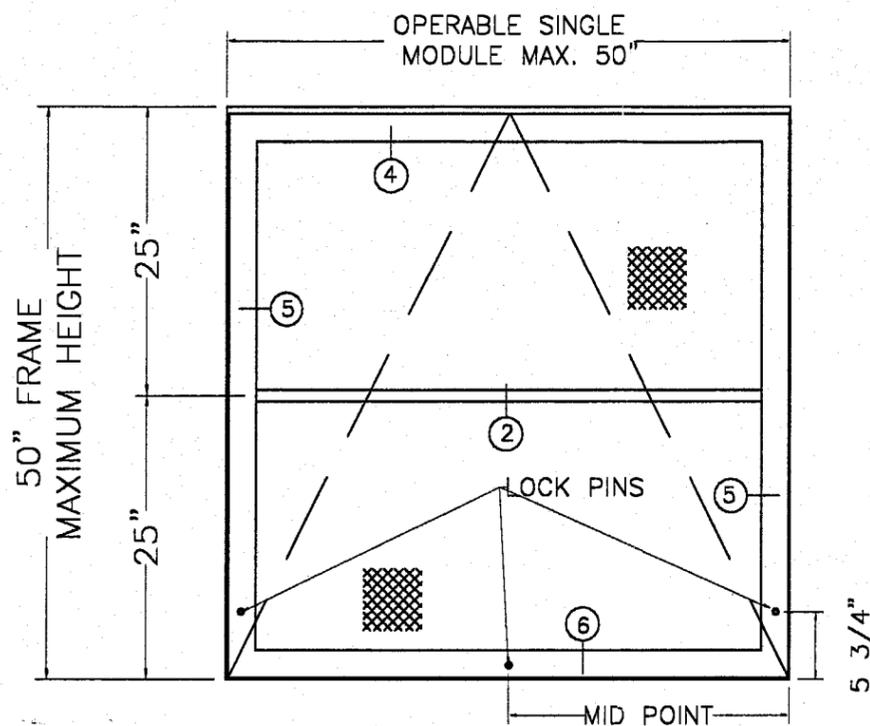
OUT-SWING OPERABLE SINGLE MODULES

APPLICABLE ONLY FOR "F" SERIES

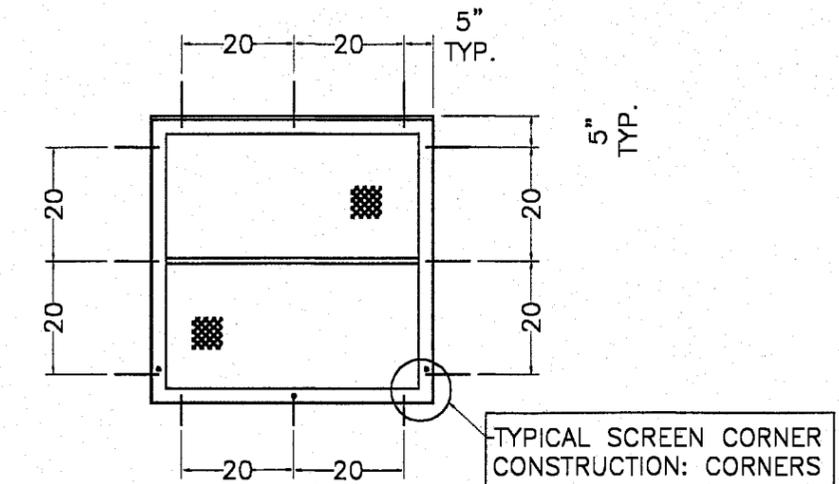
REAR SHUTTER ELEVATION TYPICAL SCREEN
PANEL ASSEMBLY SCREWS LAY-OUT



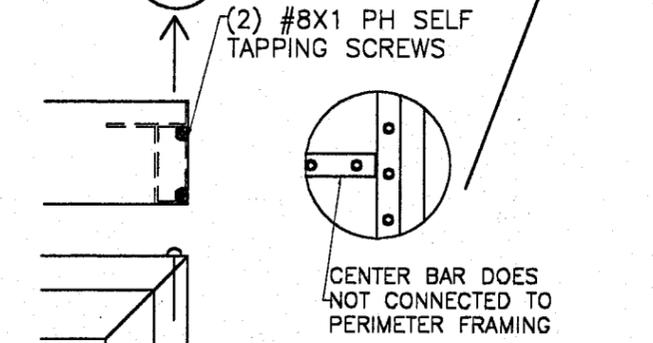
FRONT SHUTTER ELEVATION TYPICAL SCREEN
PANEL LOCKING PINS AND HINGE LAY-OUT



ANCHOR LAY-OUT

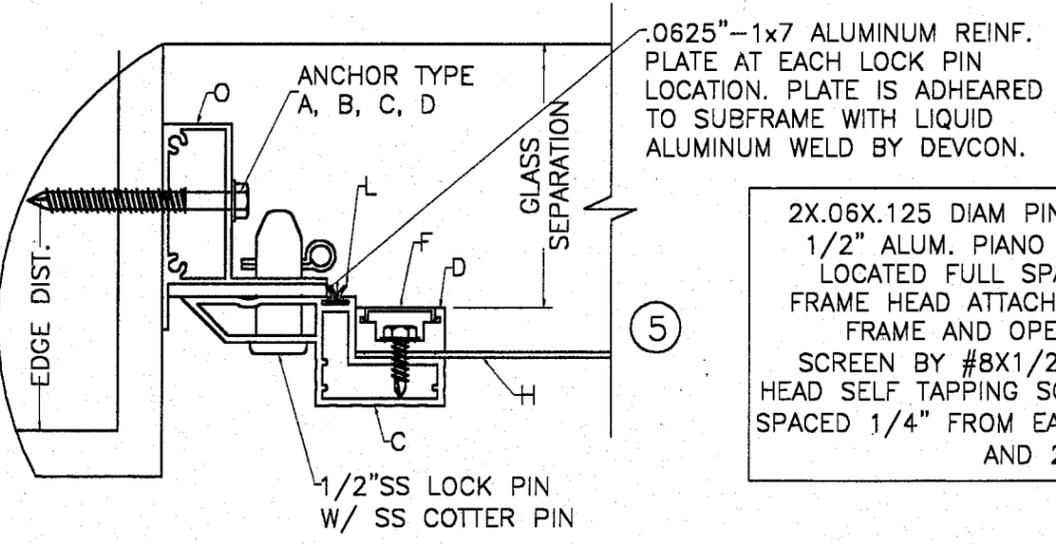


TYPICAL SCREEN CORNER CONSTRUCTION: CORNERS ARE MITTERS W/ STEEL CORNER KEY (G) ATTACHED WITH TWO #8X 1/2" PAN HEAD SELF TAPPING SCREWS PER CORNER

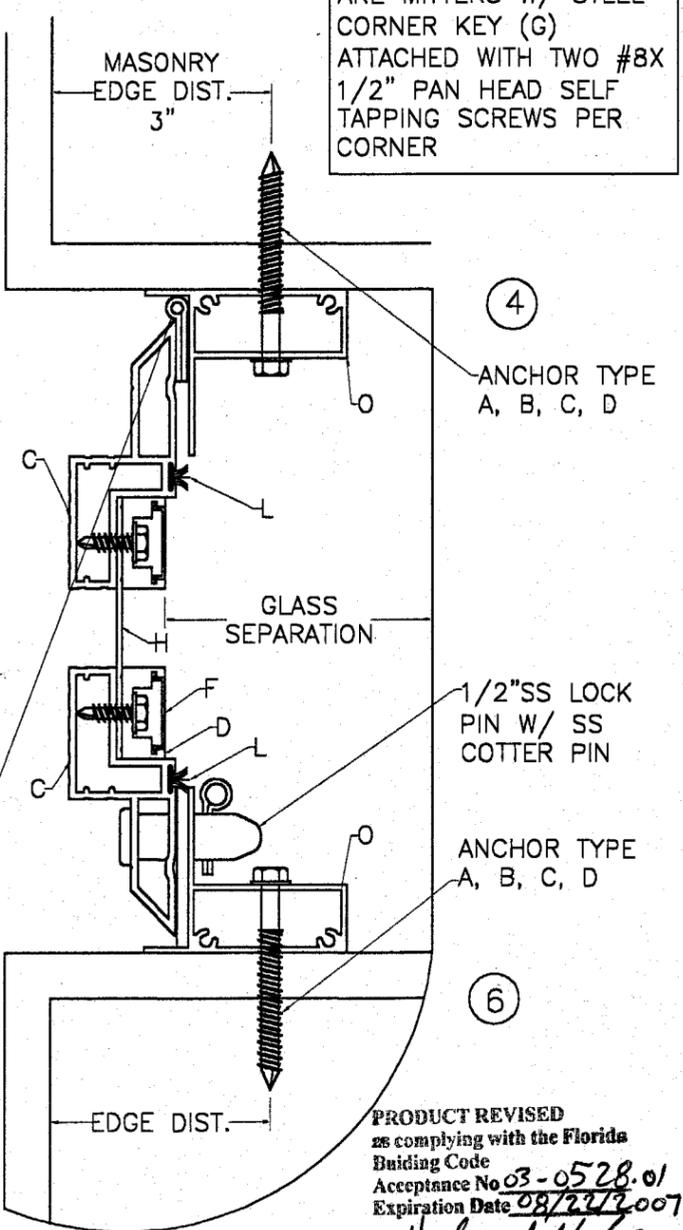


EDGE DISTANCE:

SUBSTRATUM	EDGE DISTANCE
CONCRETE	3"
BLOCK	3"
WOOD	3/4"
METAL	3/4"



2X.06X.125 DIAM PIN WITH 1/2" ALUM. PIANO HINGE LOCATED FULL SPAN OF FRAME HEAD ATTACHED TO FRAME AND OPERABLE SCREEN BY #8X1/2" PAN HEAD SELF TAPPING SCREWS SPACED 1/4" FROM EA. END AND 2" OC.



ANCHORS:

TYPE	DESCRIPTION	SUBSTRATUM	MIN. EMBED.
A	1/4" TAPCON	MIN. 3320 PSI CONCRETE	1 3/4"
B	1/4" TAPCON	CONCRETE HOLLOW BLOCK	1 1/4"
C	1/4" LAG SCREW	WOOD WITH SG >= .55	1 1/2"
D	1/4"-14X1 1/2" DRIL-FLEX	6063-T5 ALUM	-
D	1/4"-14X1 1/2" DRIL-FLEX	A36 STEEL	-

**GLASS SEPARATION:
(SINGLE UNIT)**

"F" SERIES OPERABLE

ELEVATION <= 30'	5 1/4"
ELEVATION > 30'	2 3/4"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 03-0528.01 Expiration Date 08/22/2007
By *Helmut A. Mohr*
Miami Dade Product Control Division

Manufacturer:
Protech Screens, Inc.
2425 ROY ROAD
PEARLAND - TEXAS
Tel.: (281) 485 2300
Fax.: (281) 485 8837

Product:
HURRICANE SCREEN SHUTTER

Engineering:
EngCo Inc.
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6971 W. Sunrise Blvd. 104
Plantation, Fl. 33313
Tel.: (954) 585-0304

NOV 13 2003

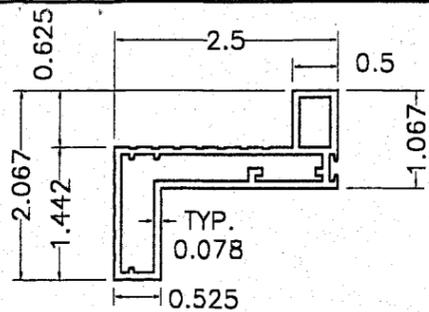
Engineer Seal
Pedro De Figueiredo
PE 52609

Date: 4/25/03
Scale: NA
Design by: PPMF

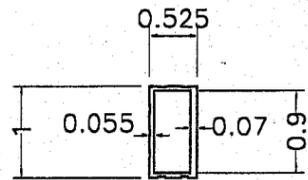
Revision:
1 Replaces 02-623 Dwg

Drawing Number
02-623R1

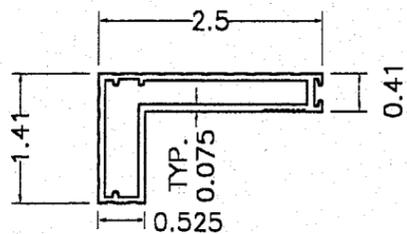
Sheet
4 of 5



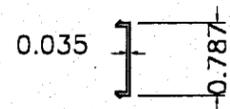
A- FLG H-NXT FRAME
#7348 - 6063-T5
US PAT.# PENDING
'Z' SERIES



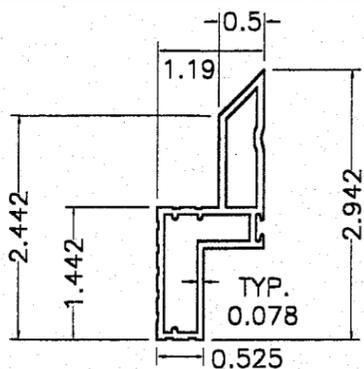
E- CENTER BAR
#4471 - 6063-T5



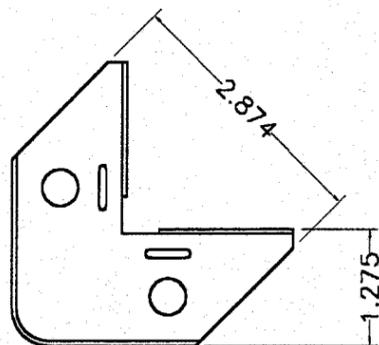
B- EXTENDED H-NXT FRAME
#7347 - 6063-T5
US PAT.# 6,314,690 B1
'L' SERIES



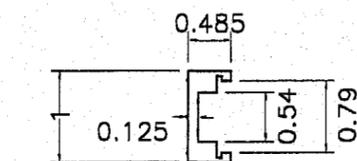
F- SCREW COVER
#1000244 BLK - PLASTIC



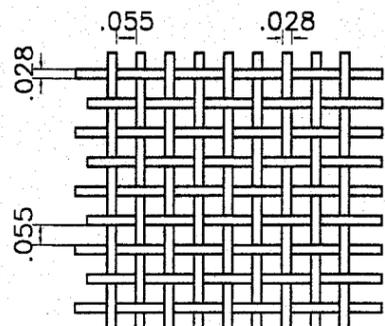
C- NXT-FLANGED FRAME
#6971 - 6063-T5
US PAT.# 6,230,455 B1
'F' SERIES



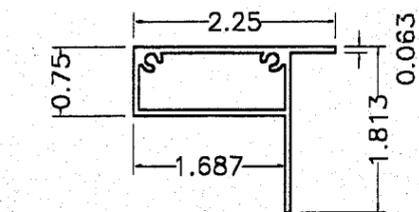
G- FRAME CORNER KEY
#390-0393
18ga/.05 GALV. STEEL



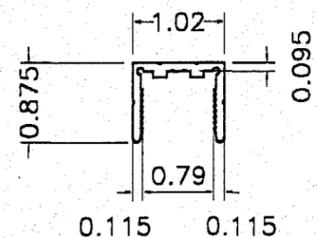
D- COVER STRIP V-CORNER
#7372 - 6063-T5
US PAT.# 4,932,457



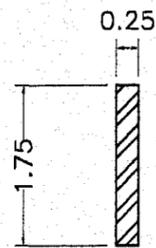
H- NXT 12 MESH
.028 Stainless Steel 304
SCREEN



I- OPERABLE SCREEN
SUBFRAMING - 6063-T5

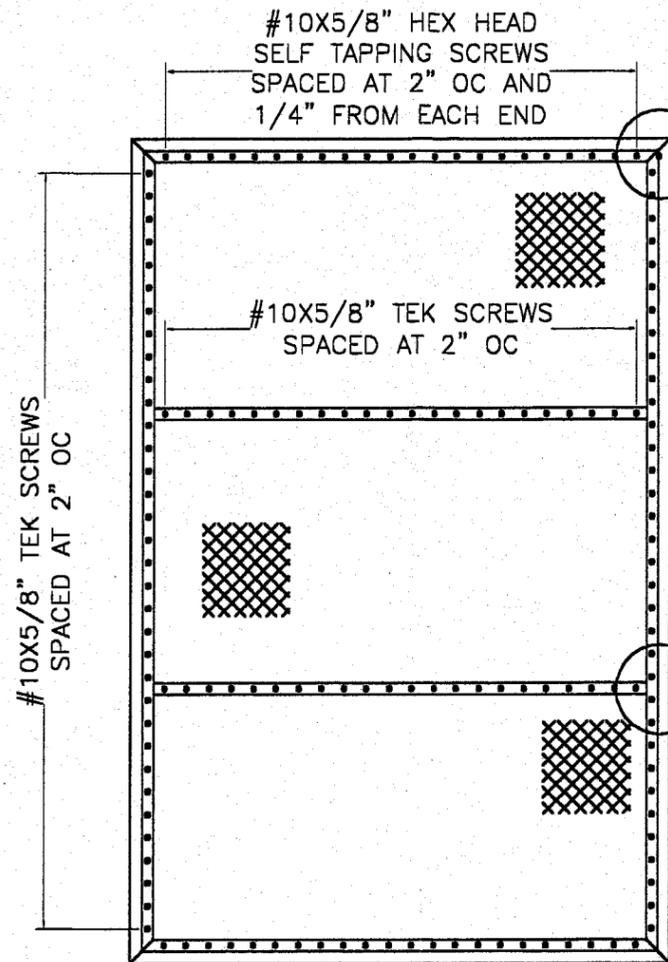


I- FRAME CAP
6063-T5 ALUMINUM

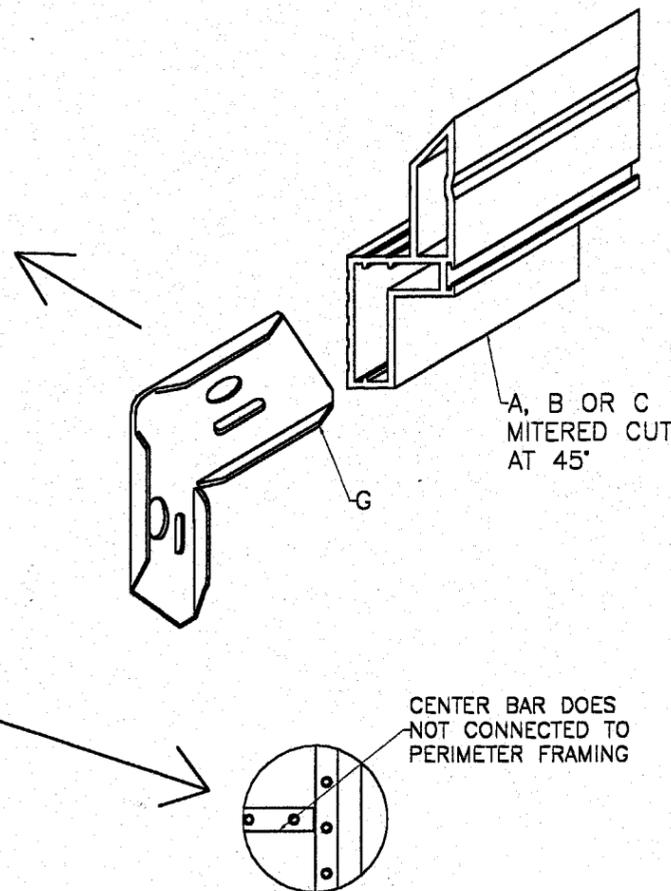


J- STEEL REINFORCEMENT
ASTM A36 STEEL
FULL SPAN OF MULLION

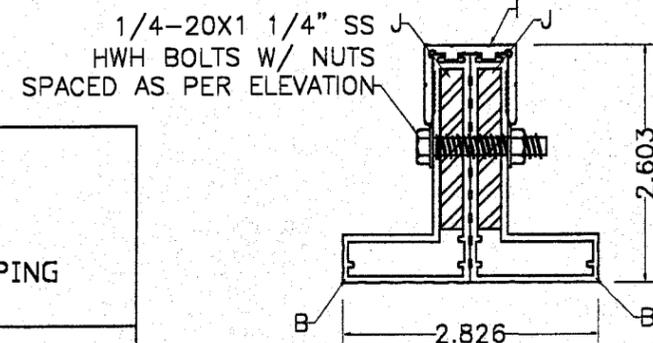
REAR ELEVATION
TYPICAL SCREEN PANEL
ASSEMBLY SCREWS LAY-OUT



TYPICAL CORNER ASSEMBLY



TYPICAL INTERMEDIATE
MULLION



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0528.01
Expiration Date 08/22/2007
By *Helmut A. Weber*
Miami Dade Product Control
Division

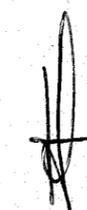
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2425 ROY ROAD
PEARLAND - TEXAS
Tel.: (281) 485 2300
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Product:
**HURRICANE
SCREEN
SHUTTER**

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Tel.: (954) 585-0304



NOV 13 2003

Engineer Seal
Pedro De Figueiredo
PE 52609

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Scale: NA
Design by: PPMF

Revision:
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Sheet
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