



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

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

**NOTICE OF ACCEPTANCE (NOA)**

Protech Screens, Inc.  
P. O. Box 1710  
Pearland, TX 77588

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section 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 Section (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. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 Screen Barrier

**APPROVAL DOCUMENT:** Drawing No. 16-050, titled " Hurricane Screen Barrier ", sheets 1 through 10 of 10, prepared by EngCo, Inc., dated February 24, 2016, signed and sealed by Pedro De Figueiredo, P.E. on March 29, 2016, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

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

**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 #12-0725.02 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, E-4 & E-5 as well as approval document mentioned above.

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



*Helmy A. Makar*  
07/07/2016

NOA No 16-0418.12  
Expiration Date: 08/22/ 2017  
Approval Date: 07/07/ 2016  
Page 1

**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. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0528.01**

**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., M.S.

Product Control Section Supervisor

NOA No 16-0418.12

Expiration Date: 08/22/ 2017

Approval Date: 07/07/ 2016

**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 Muller 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*

**3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #05-0228.04**

**A. DRAWINGS**

1. *Drawing No. 05-016, titled " Hurricane Screen Barrier ", sheets 1 through 7 of 7, prepared by EngCo, Inc., dated January 14, 2005, signed and sealed by Pedro De Figueiredo, P.E. on April 11, 2005.*

**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-04-040, dated April 12, 2004, signed and sealed by Abdol H. Rezadad, P.E.*

  
Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No 16-0418.12

Expiration Date: 08/22/ 2017

Approval Date: 07/07/ 2016

**Protech Screens, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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 "Z" Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-04-145, dated September 10, 2004, signed and sealed by Abdol H. Rezadad, P.E.*
3. *Test reports on Uniform Static Air Pressure Test per TAS 202, and Cyclic Wind Pressure per TAS 203, along with marked-up drawings and installation diagram of Series "Z" Impact Screen, prepared by Construction Consulting Laboratory, International, Test Report No. CCLI-04-162, dated September 23, 2004, signed and sealed by Abdol H. Rezadad, P.E.*

**C. CALCULATIONS**

1. *Anchor Calculations and structural analysis, 20 pages, prepared by EngCo, Inc., dated February 24, 2005, 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*

**4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0912.02**

**A. DRAWINGS**

1. *Drawing No. 05-016r1, titled "Hurricane Screen Barrier", sheets 1 through 7 of 7, prepared by EngCo, Inc., dated July 11, 2005, signed and sealed by Pedro De Figueiredo, P.E. on July 11, 2005.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None.*



Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No 16-0418.12  
Expiration Date: 08/22/ 2017  
Approval Date: 07/07/ 2016

**Protech Screens, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #07-0208.08**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *None.*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. *None*

**6. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #12-0725.02**

**A. DRAWINGS**

1. *None.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

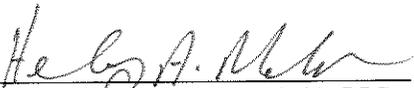
1. *None.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None*



Helmy A. Makar, P.E., M.S.  
Product Control Section Supervisor  
NOA No 16-0418.12  
Expiration Date: 08/22/ 2017  
Approval Date: 07/07/ 2016

Protech Screens, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**7. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. *Drawing No. 16-050, titled " Hurricane Screen Barrier ", sheets 1 through 10 of 10, prepared by EngCo, Inc., dated February 24, 2016, signed and sealed by Pedro De Figueiredo, P.E. on March 29, 2016.*

**B. TESTS**

1. *None.*

**C. CALCULATIONS**

1. *Anchor Calculations, 17 pages, prepared by EngCo, Inc., dated March 29, 2016, signed and sealed by Pedro De Figueiredo, P.E.*

**D. QUALITY ASSURANCE**

1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

**E. MATERIAL CERTIFICATIONS**

1. *None*

**F. STATEMENTS**

1. *Compliance with FBC, 2014 Edition letter, dated March 16, 2016, signed and sealed by Pedro De Figueiredo, P.E.*

  
\_\_\_\_\_  
Helmy A. Makar, P.E., M.S.

Product Control Section Supervisor

NOA No 16-0418.12

Expiration Date: 08/22/ 2017

Approval Date: 07/07/ 2016

# SCREEN BARRIER

0.028" STAINLESS STEEL HURRICANE BARRIER  
 LARGE AND SMALL IMPACT RESISTANT  
 ALLOWABLE PRESSURE: SEE SHEET 2

MANUFACTURER:  
**PROTECH  
 SCREENS, INC**

2425 ROY ROAD  
 PEARLAND - TEXAS  
 PHONE: (281) 485-2300  
 FAX: (281) 485-8837

PRODUCT:  
**SCREEN BARRIER**  
 0.028" STAINLESS STEEL  
 HURRICANE SCREEN  
 LARGE & SMALL MISSILE  
 IMPACT RATED

ENGINEERING:  
**ENGCO INC.** CA 8116  
 1791 BLOUNT ROAD 907  
 POMPANO BEACH, FL. 33069  
 Tel.: (754) 307-1319  
 ENGCO.COM



MAR 29 2016

Engineer Seal  
 Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED  
 as complying with the Florida  
 Building Code  
 Acceptance No 16-0418.12  
 Expiration Date 08/22/2017  
 By Helga H. Nelson  
 Miami Dade Product Control

DATE: 02/24/2016  
 SCALE: NA  
 DESIGN BY: PPMF

SHEET 1 OF 10  
 DRAWING #: 16-050

## TABLE OF CONTENTS:

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5	TYPE C BARRIER DETAILS
6	TYPE D60 BARRIER DETAILS
7	TYPE D48 BARRIER DETAILS
8	TYPE E BARRIER DETAILS
9	TYPE F BARRIER DETAILS
10	PRODUCT COMPONENTS & CORNER ASSEMBLY

## GENERAL NOTES:

- 1- CODE: FLORIDA BUILDING CODE 2014 - HVHZ.
- 2- TEST COMPLIANCE: TAS 201, TAS 202 AND TAS 203
- 3- PRODUCT DESCRIPTION: THIS PRODUCT IS A HURRICANE BARRIER DEVICE COMPOSED OF AN OPERABLE OR FIXED SCREEN
- 4- LABEL: A PERMANENT LEGIBLE LABEL SHALL BE PLACED ON EACH UNIT AT A VISIBLE LOCATION STATING THE FOLLOWING:  

"HURRICANE SCREEN BARRIER  
 PROTECH SCREEN, INC. - PEARLAND, TEXAS  
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"
- 5- MATERIAL:
  - 5.1- SCREEN MESH MADE OF 0.028" STAINLESS STEEL 304 GRADE.
  - 5.2- ALL ALUMINUM EXTRUSIONS SHALL BE MADE WITH 6063-T5 ALLOY OR AS INDICATED IN THIS DRAWING.
  - 5.3- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED BY THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING.
- 6- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH SHUTTER COMPONENT TO BE USED.
- 7- THE CONTRACTOR MUST VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE IN SUSTAINING THE PRODUCT IMPOSED LOADS.
- 8- ANCHORS INTO WOOD DESIGNED WITH 1.6 LOAD DURATION INCREASE IN ACCORDANCE WITH NDS.
- 9- DISSIMILAR MATERIALS: WHERE ALUMINUM IS IN CONTACT OR FASTENED TO DISSIMILAR MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, INSTALLATION SHALL MEET THE REQUIREMENTS OF CHAPTER M.7 OF THE ALUMINUM DESIGN MANUAL 2010.

# TYPICAL ELEVATIONS AND ALLOWABLE PRESSURES

ALLOWABLE DESIGNED PRESSURES:

TYPE	SERIES	ALLOWABLE PRESSURES (PSF)
A	F	+88, -88
B	F	+98, -98
C	Z	+52, -52
	L	+55, -60
	F	+53, -58
D60	Z	+122, -217
D48	Z	+121, -135
E(*)	L	+55, -60
F(*)	L & Z	+55, -60

(\*) MULTIPLE FIXED BARRIERS

MANUFACTURER:

**PROTECH  
SCREENS, INC**

2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
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PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116  
1791 BLOUNT ROAD 907  
POMPANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@AOL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

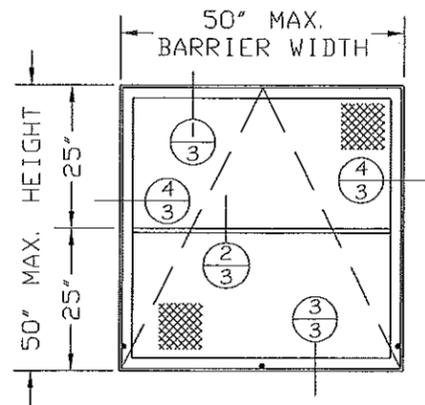
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0418.12  
Expiration Date 08/22/2017  
By *Heidi A. Miller*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

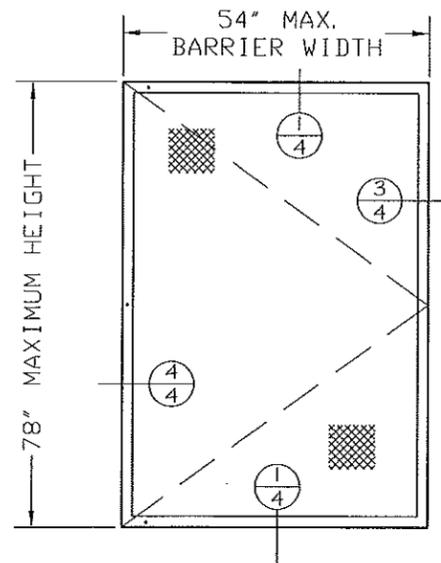
SHEET  
2 OF 10

DRAWING #:  
16-050

TYPE A BARRIER  
OUT-SWING OPERABLE BARRIER  
(SHEET 3 OF 10)



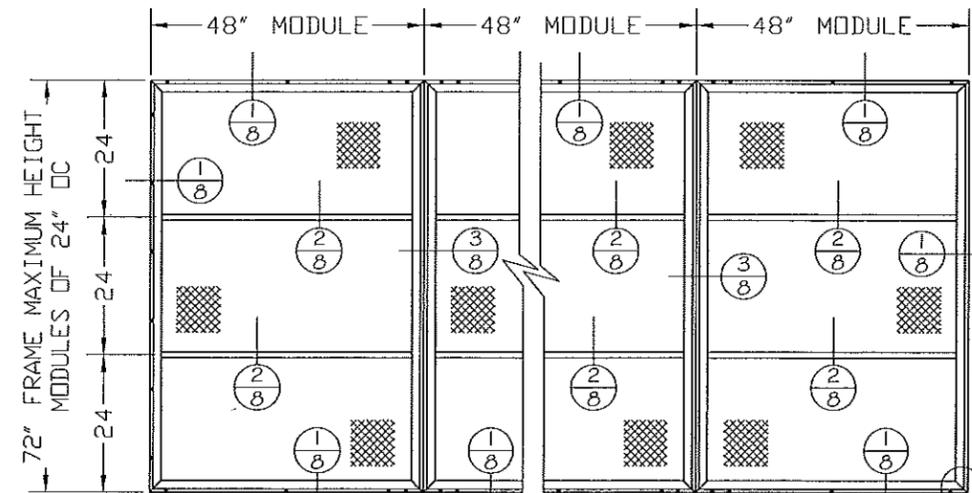
TYPE B BARRIER  
OUT-SWING OPERABLE BARRIER  
(SHEET 4 OF 10)



NOTES:

- 1- PRODUCT CAN BE INSTALLED ROTATED.
- 2- #12X.028 - 40% POROSITY (SCREEN)

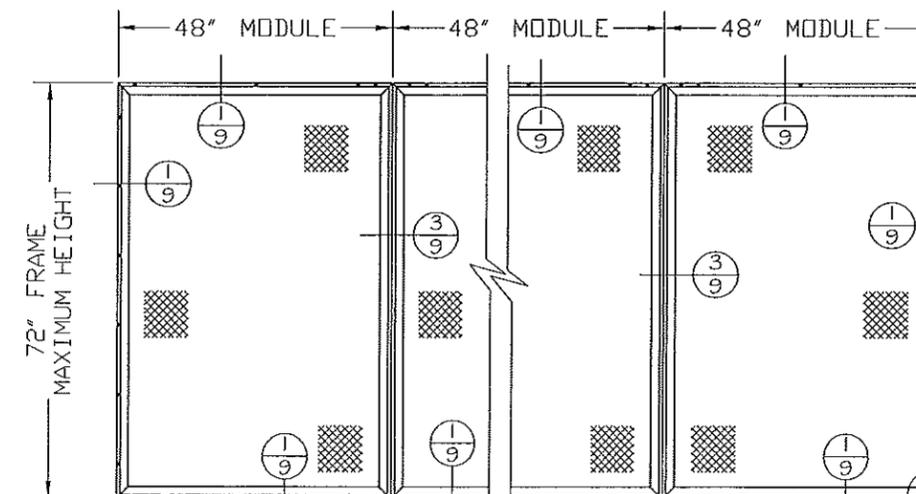
TYPE E - MULTIPLE FIXED BARRIERS  
(SHEET 8 OF 10)



MULTIPLE FIXED WITH L SERIES

SEE TYPICAL  
CORNER DETAILS  
ON SHEET 10

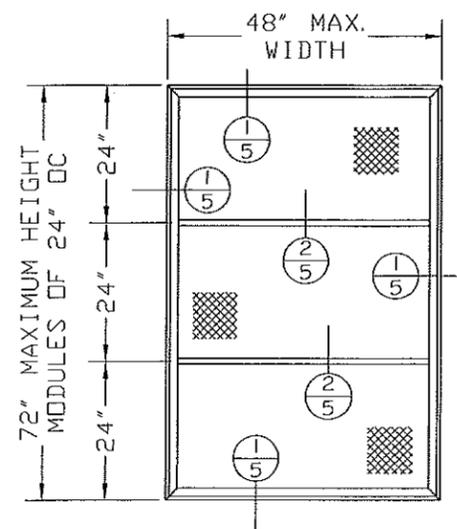
TYPE F - MULTIPLE FIXED BARRIERS  
(SHEET 9 OF 10)



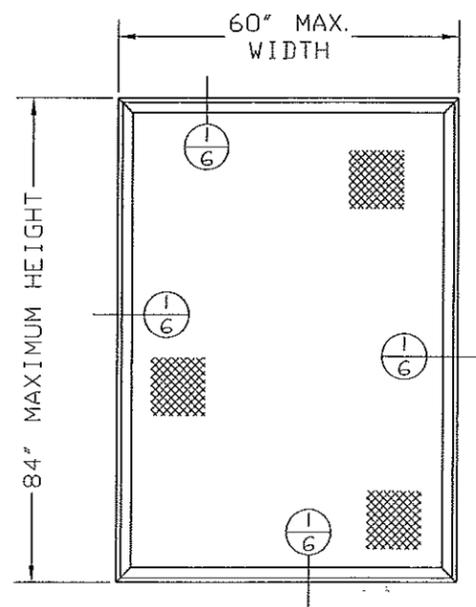
MULTIPLE FIXED WITH L & Z SERIES

SEE TYPICAL  
CORNER DETAILS  
ON SHEET 10

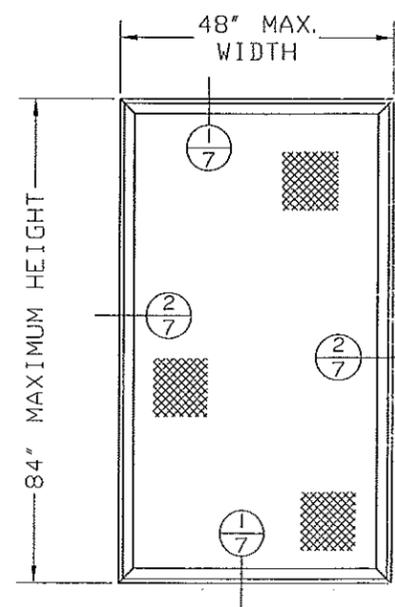
TYPE C - FIXED BARRIER  
(SHEET 5 OF 10)



TYPE D60 - FIXED BARRIER  
(SHEET 6 OF 10)

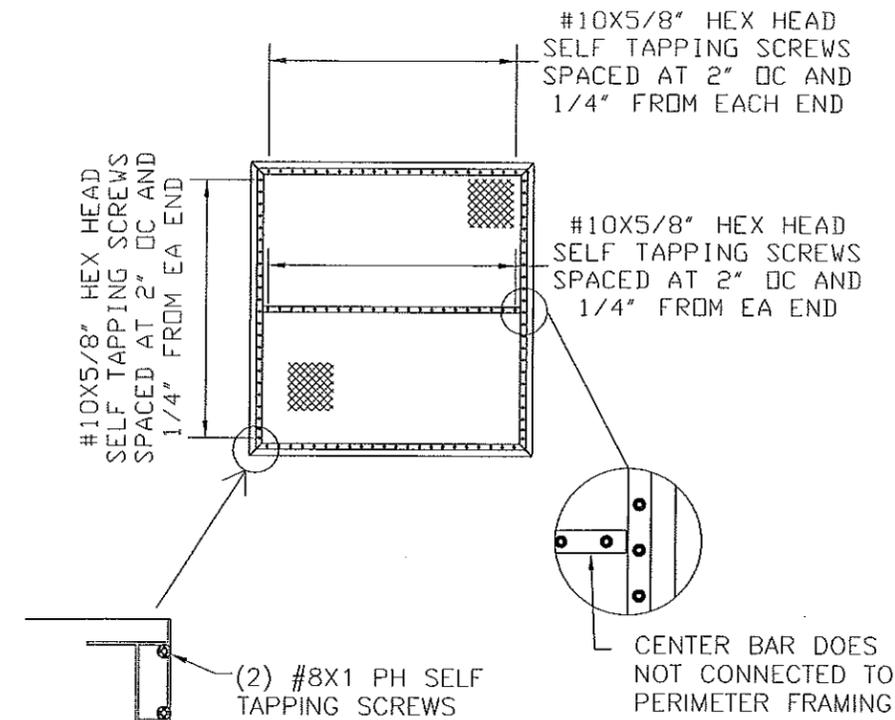


TYPE D48 - FIXED BARRIER  
(SHEET 7 OF 10)

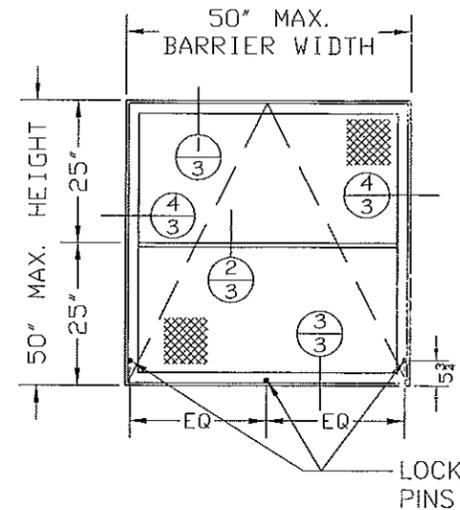


TYPE A BARRIER - Pd = ±88 PSF  
 OUT-SWING OPERABLE SINGLE MODULES  
 APPLICABLE ONLY FOR "F" SERIES

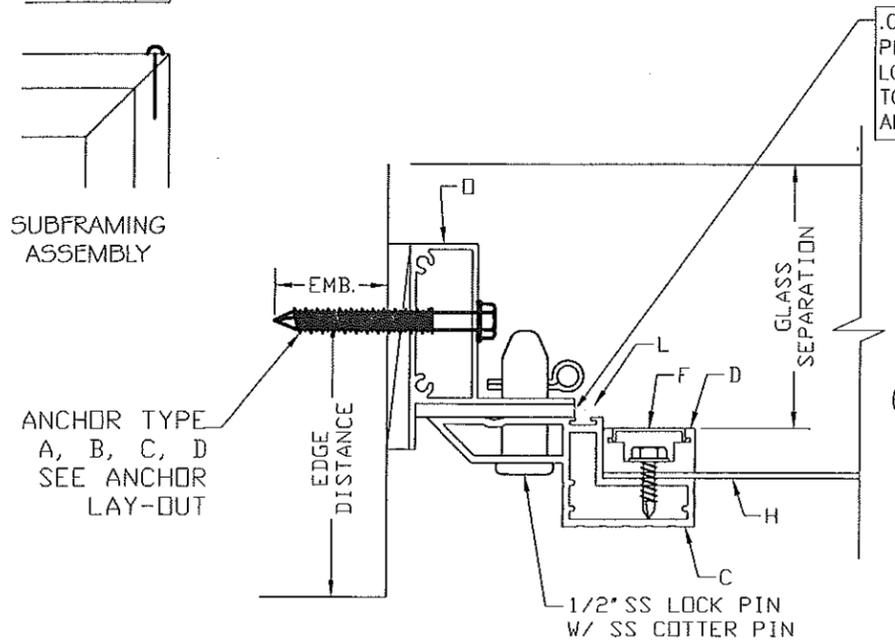
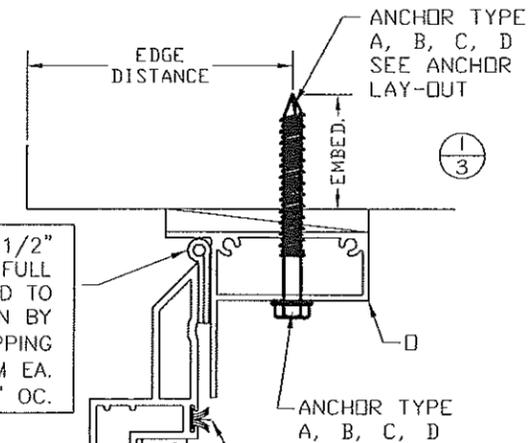
REAR BARRIER ELEVATION  
 TYPICAL SCREEN PANEL  
 ASSEMBLY SCREWS LAY-OUT



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

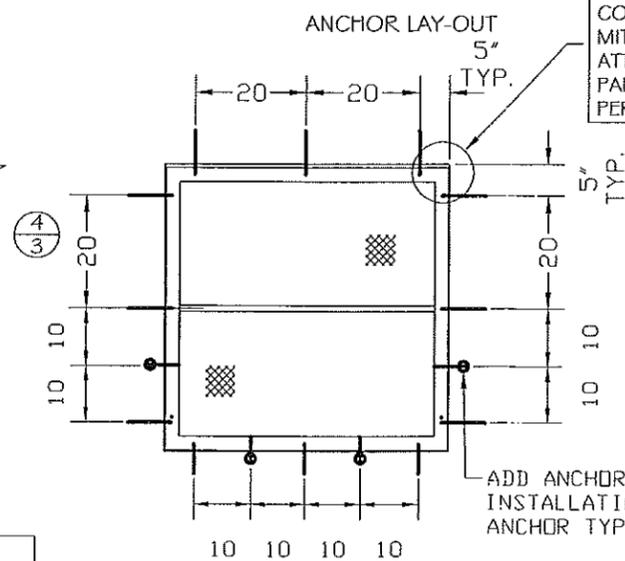


2X.06X.125 DIAM PIN WITH 1/2" ALUM. PIANO HINGE LOCATED FULL SPAN OF FRAME HEAD ATTACHED TO FRAME AND OPERABLE SCREEN BY #8X1/2" PAN HEAD SELF TAPPING SCREWS SPACED 1/4" FROM EA. END AND 2" OC.



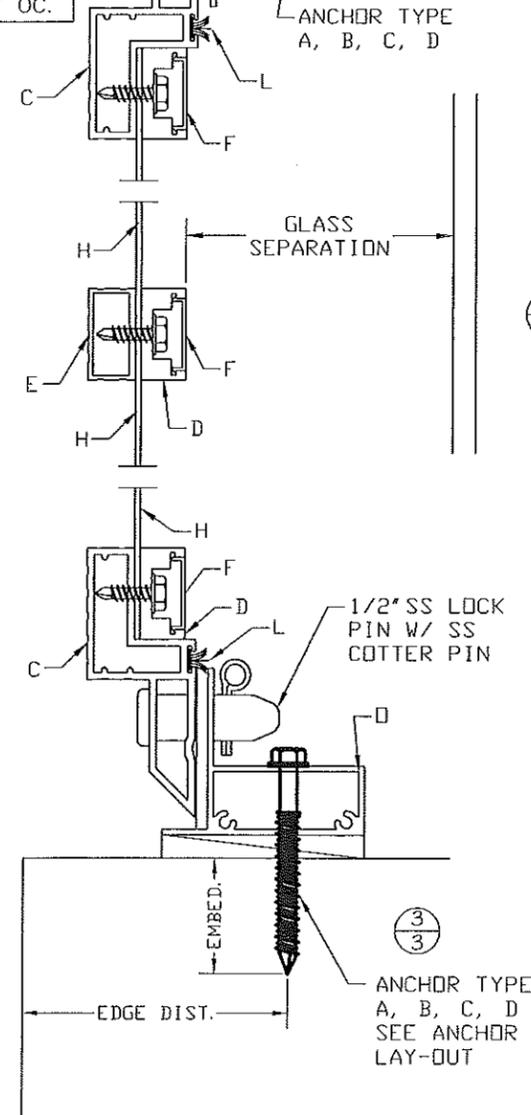
.0625"-1x7 ALUMINUM REINF. PLATE AT EACH LOCK PIN LOCATION. PLATE IS ADHERED TO SUBFRAME WITH LIQUID ALUMINUM WELD BY DEVCON.

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



GLASS SEPARATION:

(SINGLE UNIT - TYPE A)	
"F" SERIES OPERABLE	
ELEVATION <= 30'	5 1/4"
ELEVATION > 30'	2 3/4"



ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG > 0.55	1.50	0.75
D	1/4-14X1 1/2 5D5 GR5	1/8" METAL	.125	0.75

NOTES:  
 1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING  
 2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL

MANUFACTURER:  
**PROTECH  
 SCREENS, INC**

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 0.028" STAINLESS STEEL  
 HURRICANE SCREEN  
 LARGE & SMALL MISSILE  
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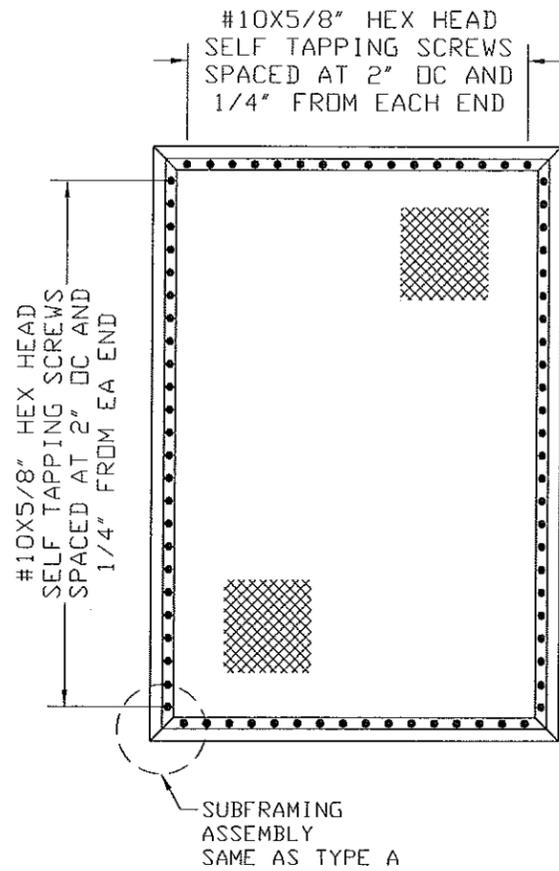
MAR 29 2016  
 Engineer Seal  
 Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:  
 PRODUCT REVISED  
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 Acceptance No 16-0418.12  
 Expiration Date 08/23/2017  
 By *[Signature]*  
 Miami Dade Product Control

DATE: 02/24/2016  
 SCALE: NA  
 DESIGN BY: PPMF

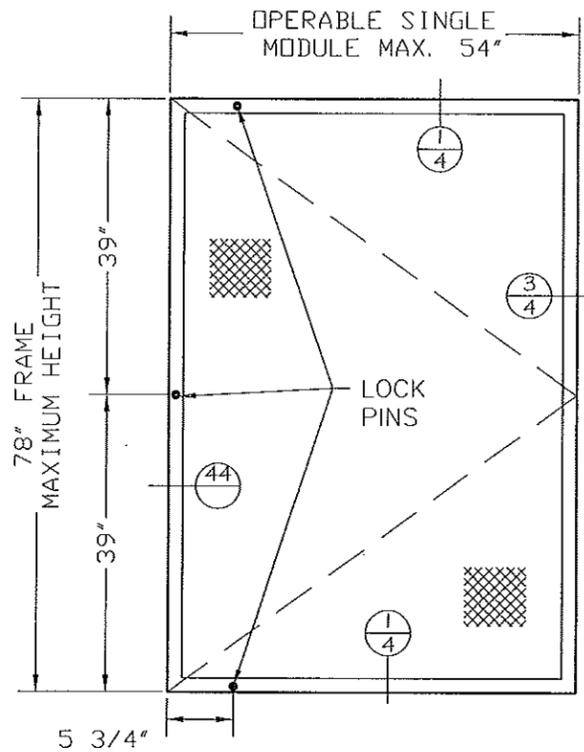
SHEET 3 OF 10  
 DRAWING #: 16-050

REAR BARRIER ELEVATION  
TYPICAL SCREEN PANEL  
ASSEMBLY SCREWS LAY-OUT



TYPE B BARRIER - Pd = ±98 PSF  
ALTERNATE OUT-SWING OPERABLE SINGLE MODULES  
APPLICABLE ONLY FOR "F" SERIES

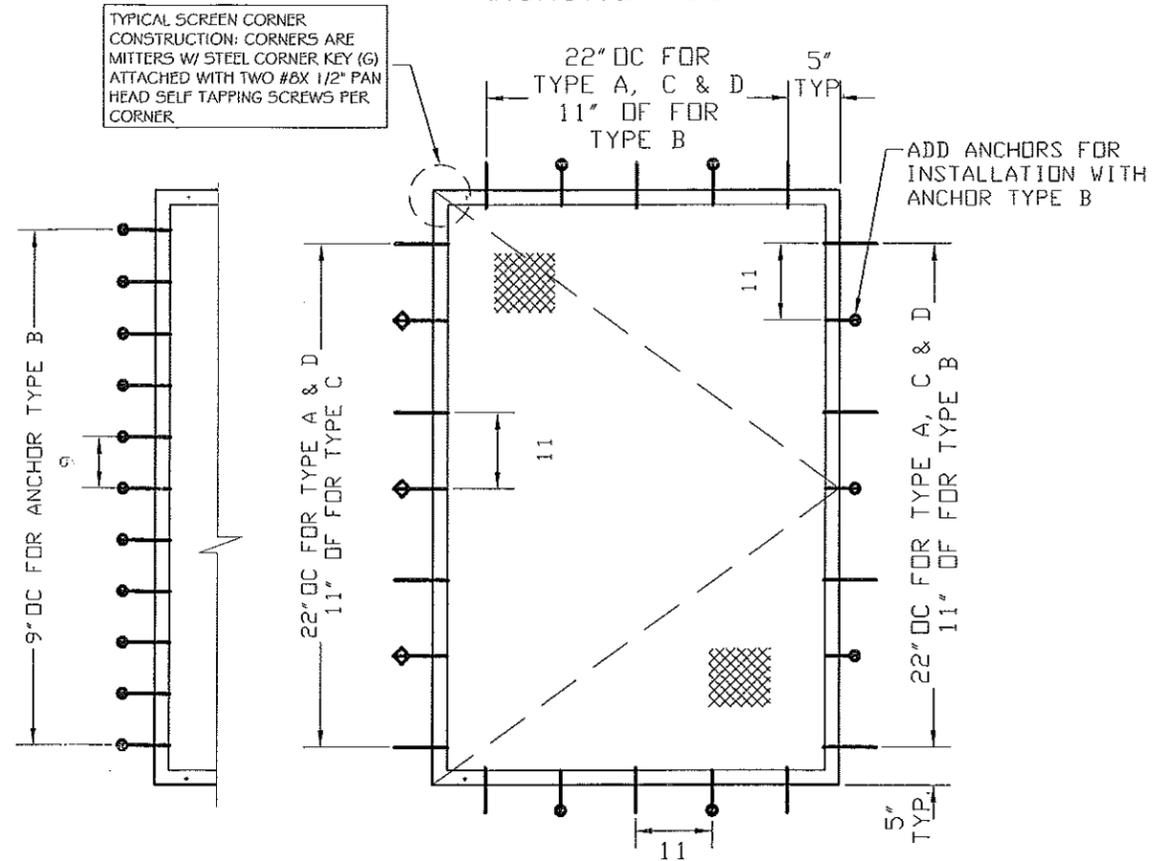
FRONT BARRIER ELEVATION  
TYPICAL SCREEN PANEL LOCKING  
PINS AND HINGE LAY-OUT



GLASS SEPARATION:  
(SINGLE UNIT - TYPE B)  
"F" SERIES OPERABLE

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

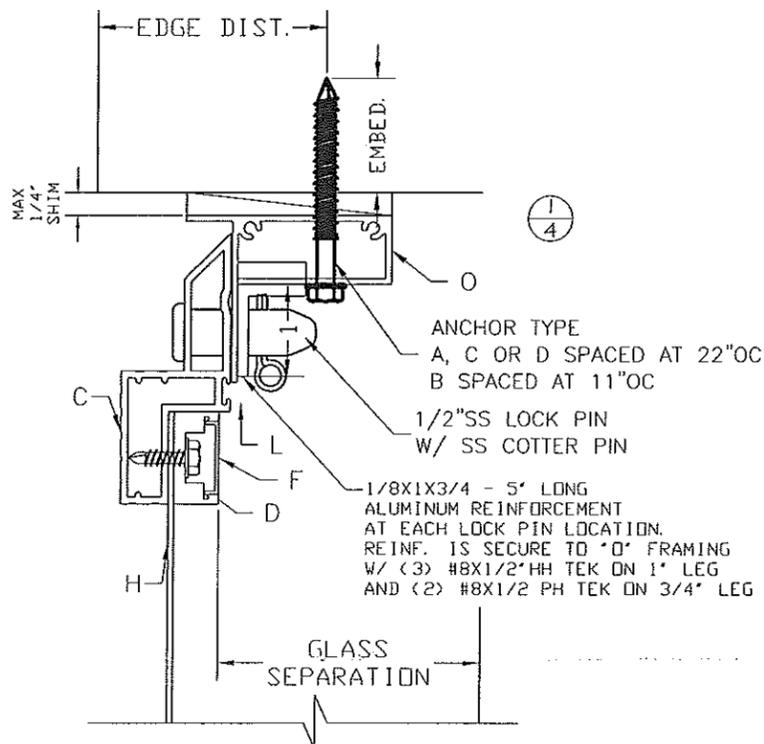
ANCHOR LAY-OUT



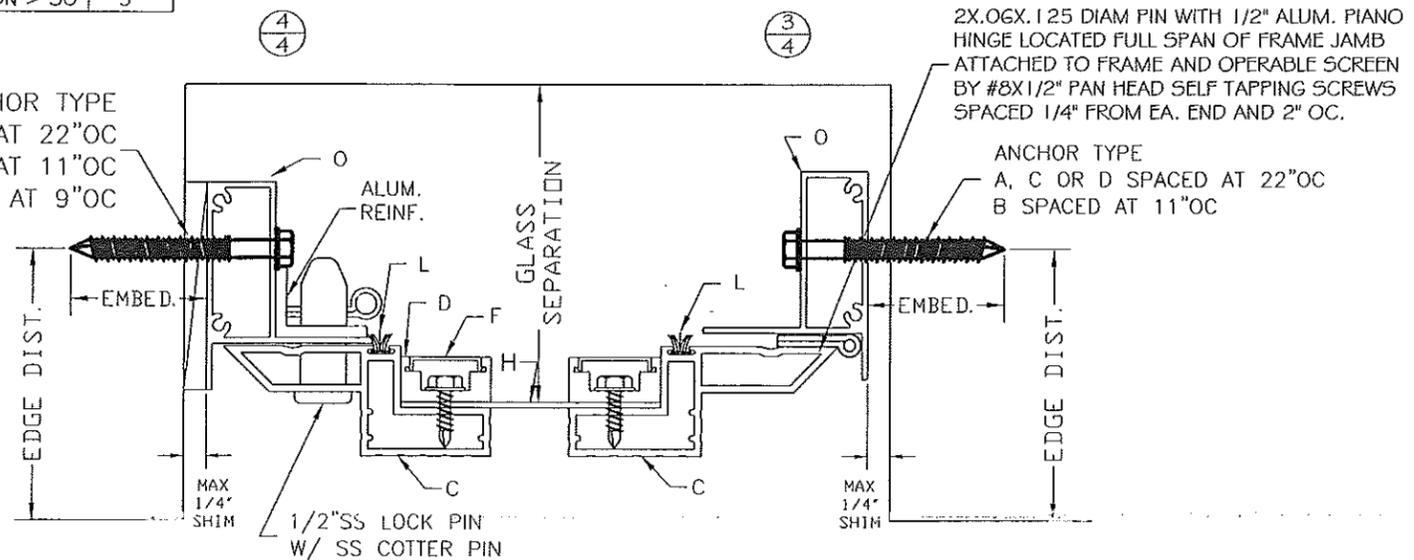
ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4"-14X1 1/2 SDS GR5	1/8" METAL	.125	0.75

NOTES:  
1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING  
2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL



ANCHOR TYPE  
A OR D SPACED AT 22"OC  
C SPACED AT 11"OC  
B SPACED AT 9"OC



MANUFACTURER:

**PROTECH  
SCREENS, INC**

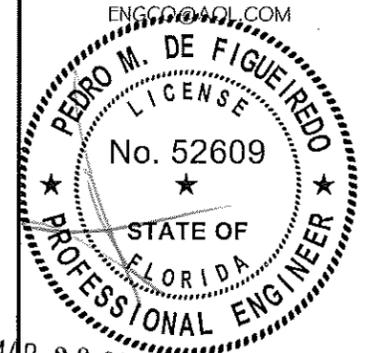
2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116  
1791 BLOUNT ROAD 907  
POMPAHO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@AOL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 16-0418.12  
Expiration Date 08/22/2017  
By *Helga...*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

SHEET  
4 OF 10

DRAWING #:  
16-050

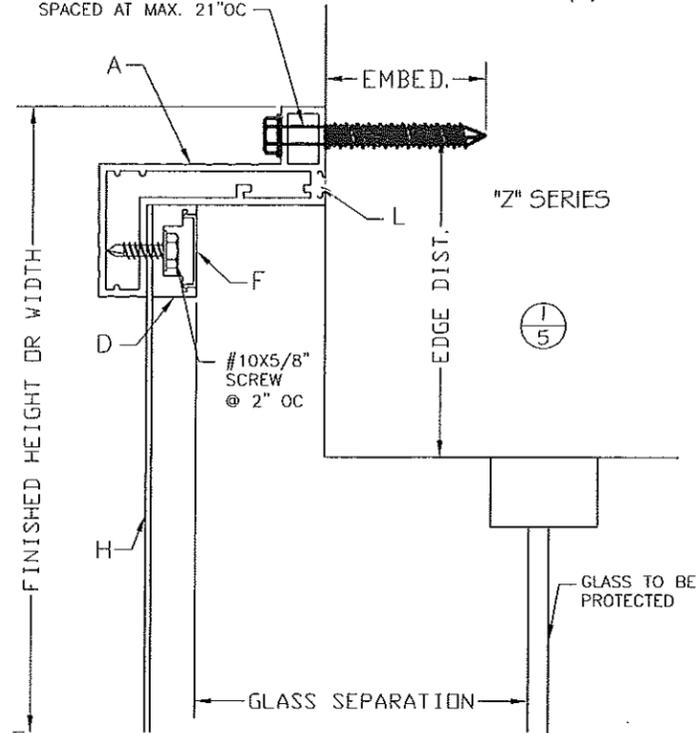
### TYPE C BARRIER

Pd (F)= +53, -58 PSF, Pd (L)= +55, -60 PSF, Pd (Z)= +52, -52 PSF

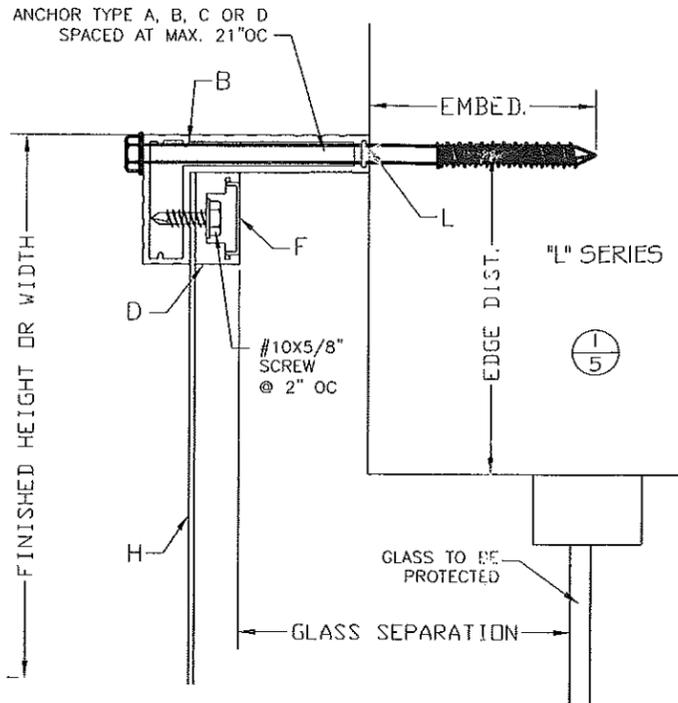
FIXED SINGLE MODULES

APPLICABLE FOR "F", "L" AND "Z" SERIES

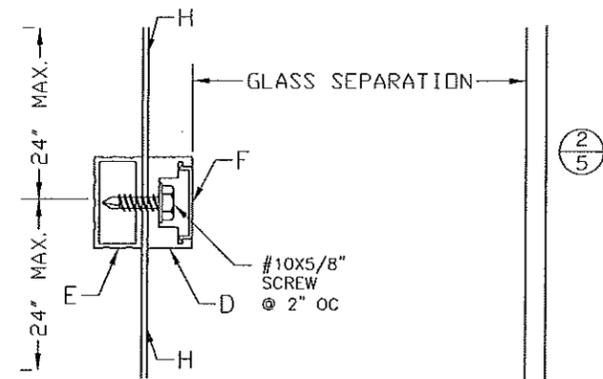
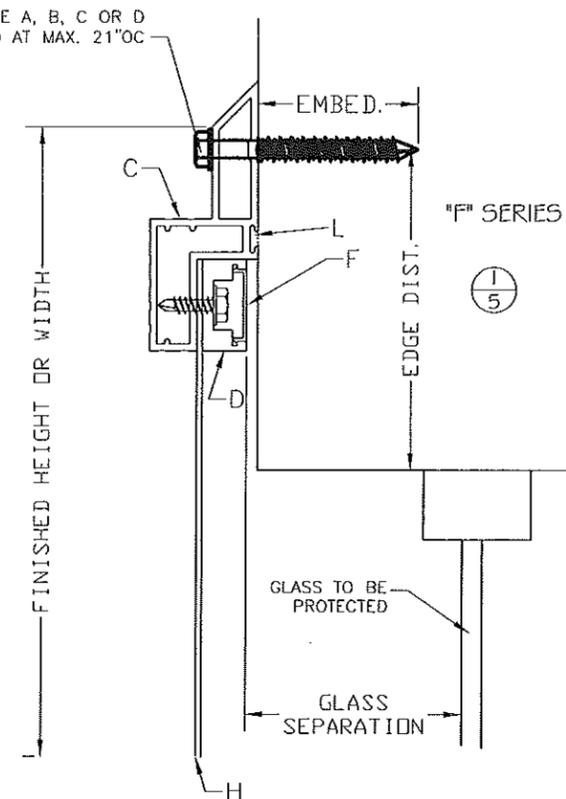
ANCHOR TYPE A, B, C OR D  
SPACED AT MAX. 21"OC



ANCHOR TYPE A, B, C OR D  
SPACED AT MAX. 21"OC



ANCHOR TYPE A, B, C OR D  
SPACED AT MAX. 21"OC



GLASS SEPARATION: (SINGLE UNIT)

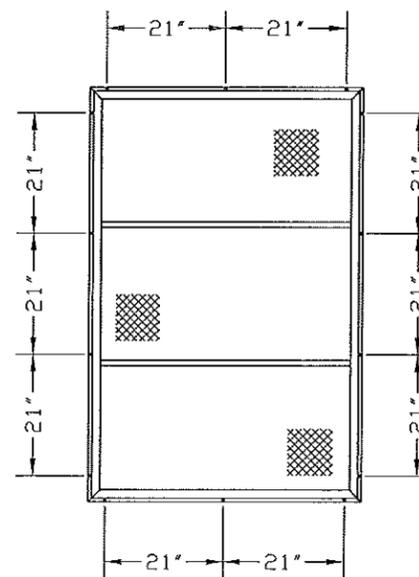
FRAMING TYPE	ELEVATION	
	<=30'	>30'
Z SERIES	2 3/4"	2 3/8"
L SERIES	3 5/8"	2 1/2"
F SERIES	2 7/8"	2 1/8"

ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4-14X1 1/2 SDS GR5	1/8" METAL	.125	0.75

NOTES:  
1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING  
2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL

ANCHORS SPACING LAY-OUT



MANUFACTURER:

**PROTECH  
SCREENS, INC**

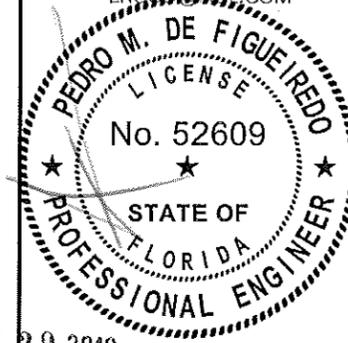
2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116  
1791 BLOUNT ROAD 907  
POMPANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@GMAIL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

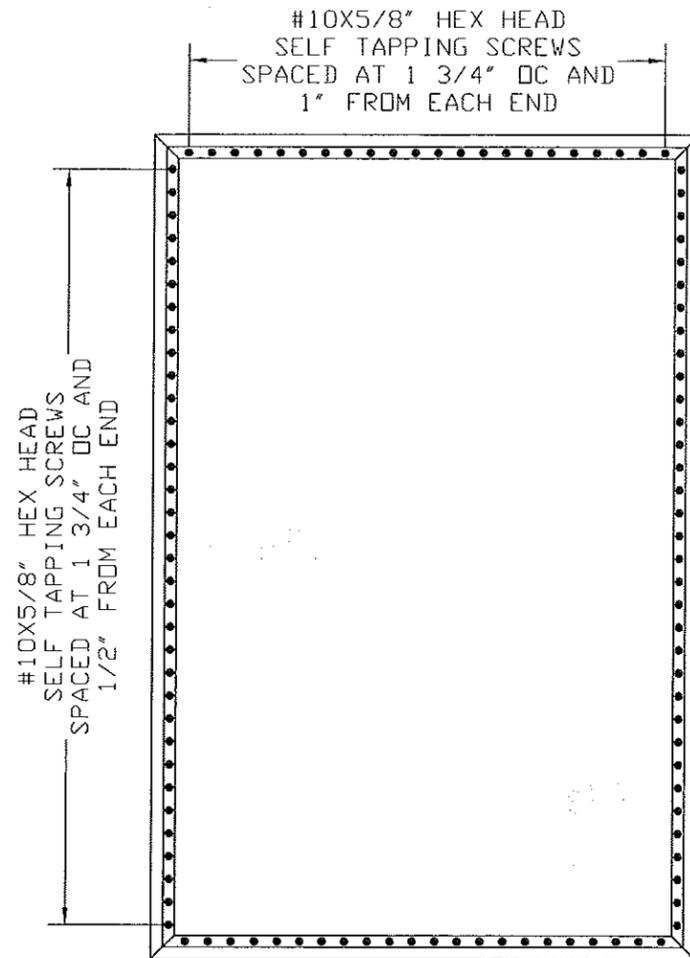
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0418.12  
Expiration Date 08/22/2017  
By *[Signature]*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

SHEET  
5 OF 10

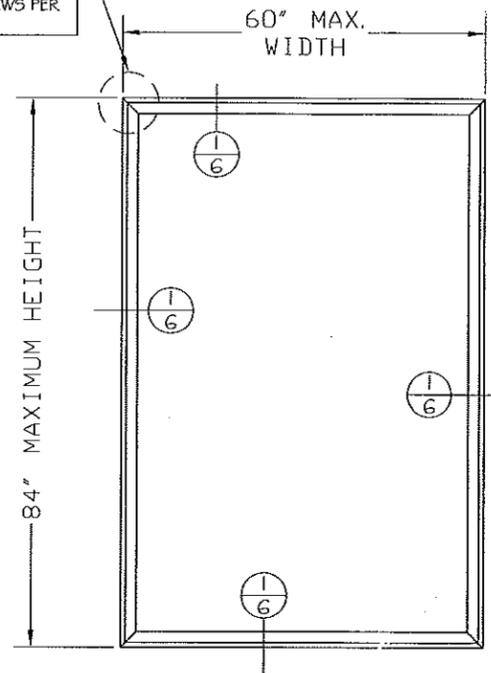
DRAWING #:  
16-050

REAR ELEVATION  
TYPICAL SCREEN PANEL  
ASSEMBLY SCREWS LAY-OUT



TYPE D60 BARRIER  
Pd (F)= +122, -217 PSF  
FIXED SINGLE MODULES  
APPLICABLE FOR "Z" SERIES

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



GLASS SEPARATION:

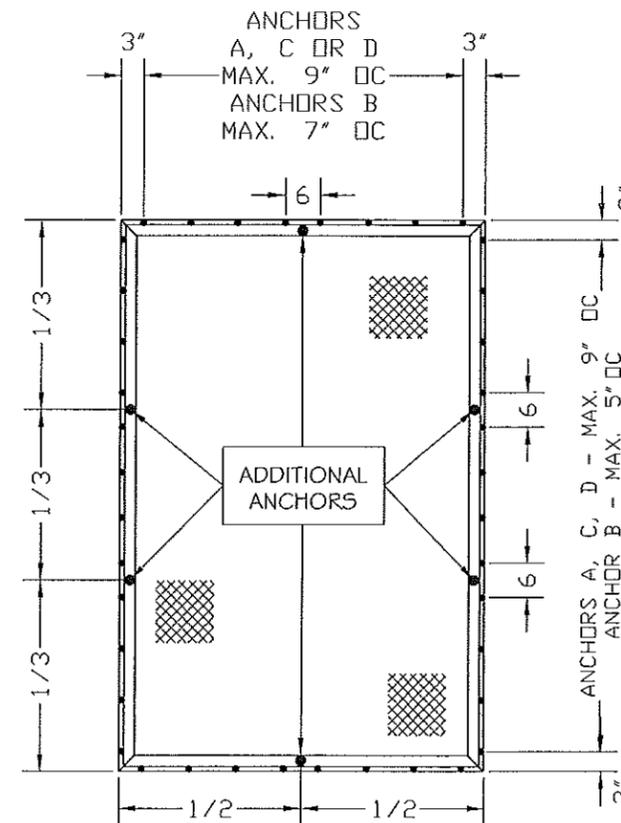
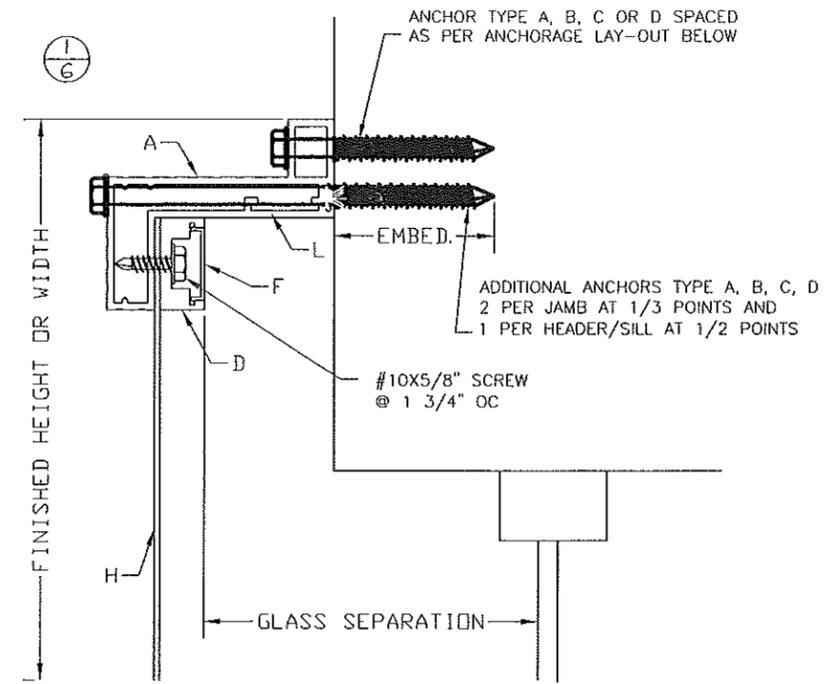
(SINGLE UNIT - TYPE D)	
ELEVATION <= 30'	4 1/4"
ELEVATION > 30'	3 3/4"

ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4-14X1 1/2 SDS GR5	1/8" METAL	1.25	0.75

NOTES:

- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING
- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL



MANUFACTURER:

**PROTECH  
SCREENS, INC**

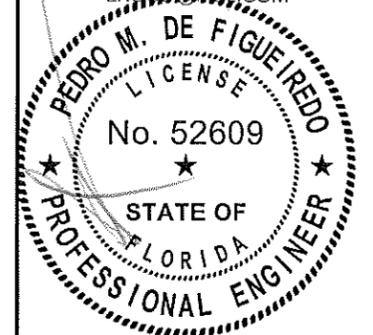
2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116  
1791 BLOUNT ROAD 907  
POMPANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@AOL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0418.12  
Expiration Date 08/22/2017  
By *Hedy A. Miller*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

SHEET  
6 OF 10

DRAWING #:  
16-050

MANUFACTURER:

**PROTECH  
SCREENS, INC**

2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

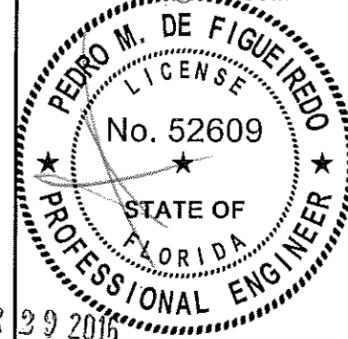
PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116

1791 BLOUNT ROAD 907  
POMFANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@GMAIL.COM



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MIAMI-DADE BCCO:

PRODUCT REVISED  
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Expiration Date 08/22/2017  
By Hely J. M...  
Miami Dade Product Control

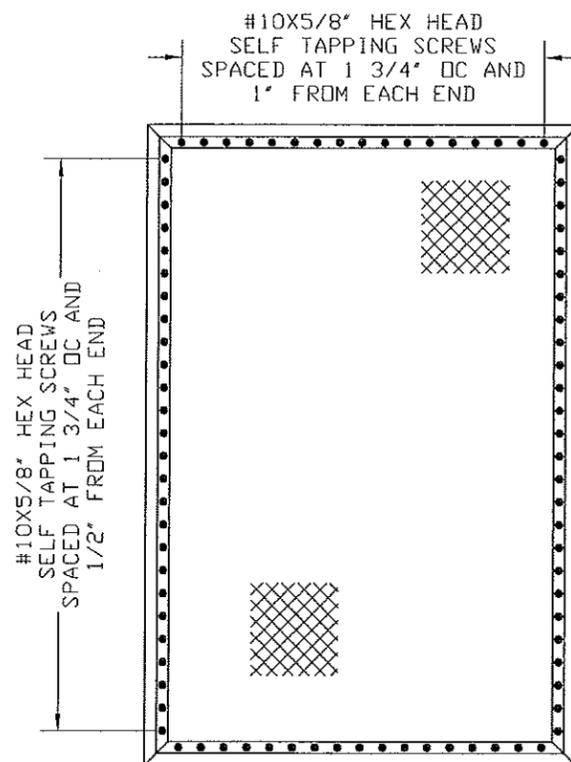
DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

SHEET  
7 OF 10

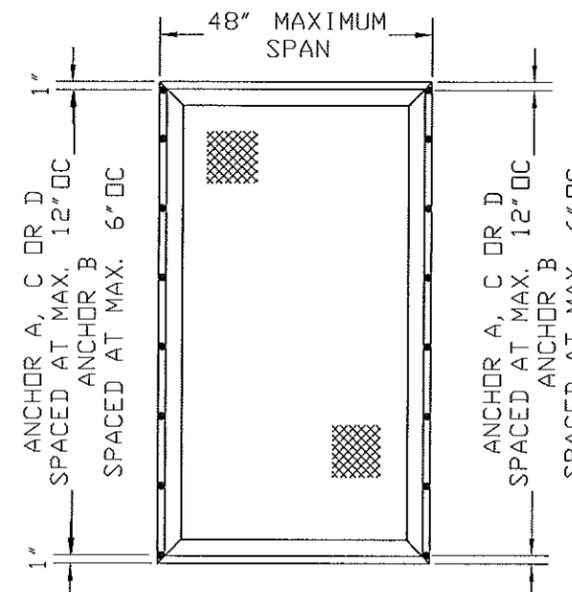
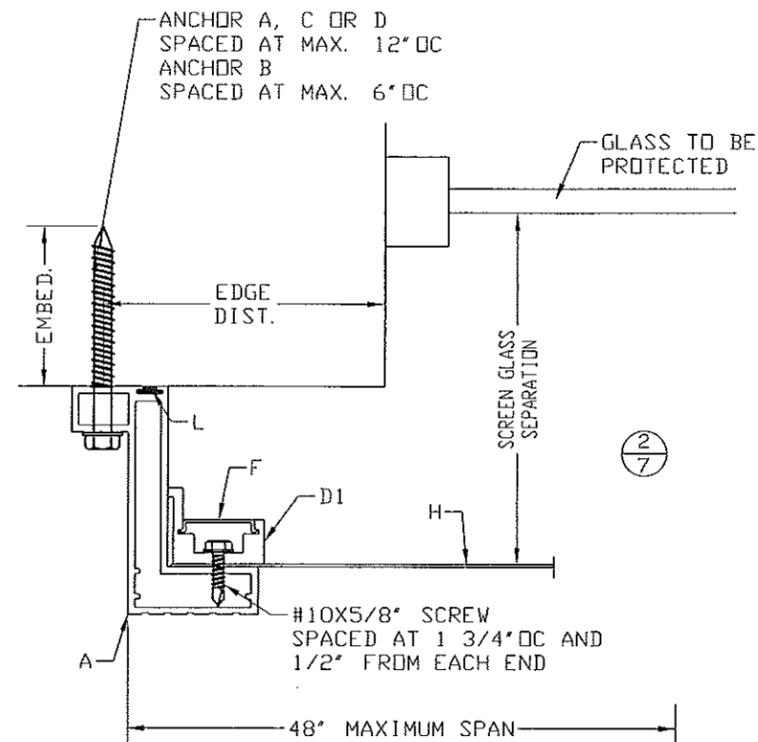
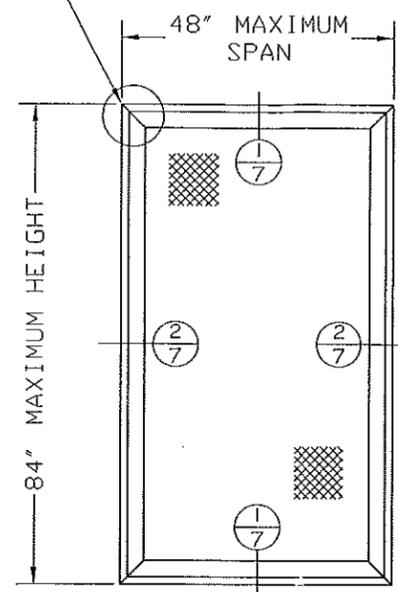
DRAWING #:  
16-050

**TYPE D48 BARRIER**  
Pd= +121, -135 PSF  
FIXED SINGLE MODULES  
APPLICABLE FOR "Z" SERIES

REAR ELEVATION  
TYPICAL SCREEN PANEL  
ASSEMBLY SCREWS LAY-OUT



TYPICAL SCREEN CORNER  
CONSTRUCTION: CORNERS ARE  
MITTERED W/ STEEL CORNER KEY  
(G) ATTACHED WITH TWO #8X1  
1/2" PAN HEAD SELF TAPPING  
SCREWS PER CORNER



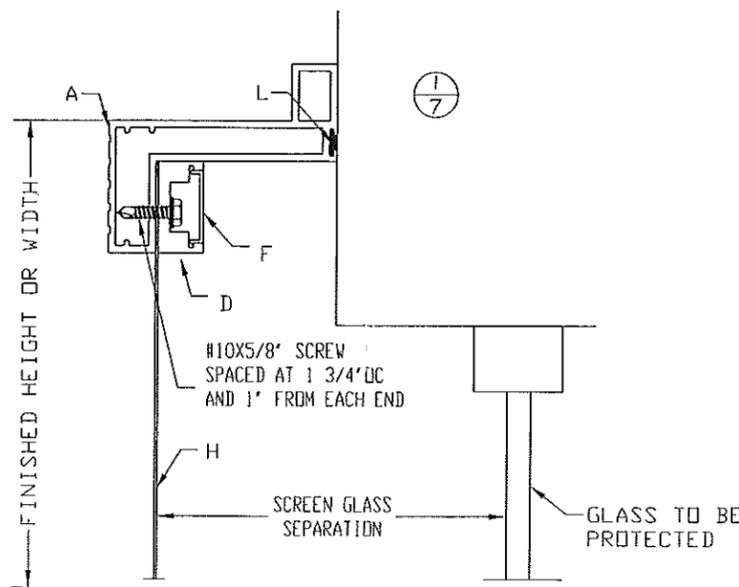
GLASS SEPARATION:

(SINGLE UNIT - TYPE D48)	
ELEVATION >30'	3 3/4"
ELEVATION <=30'	3"

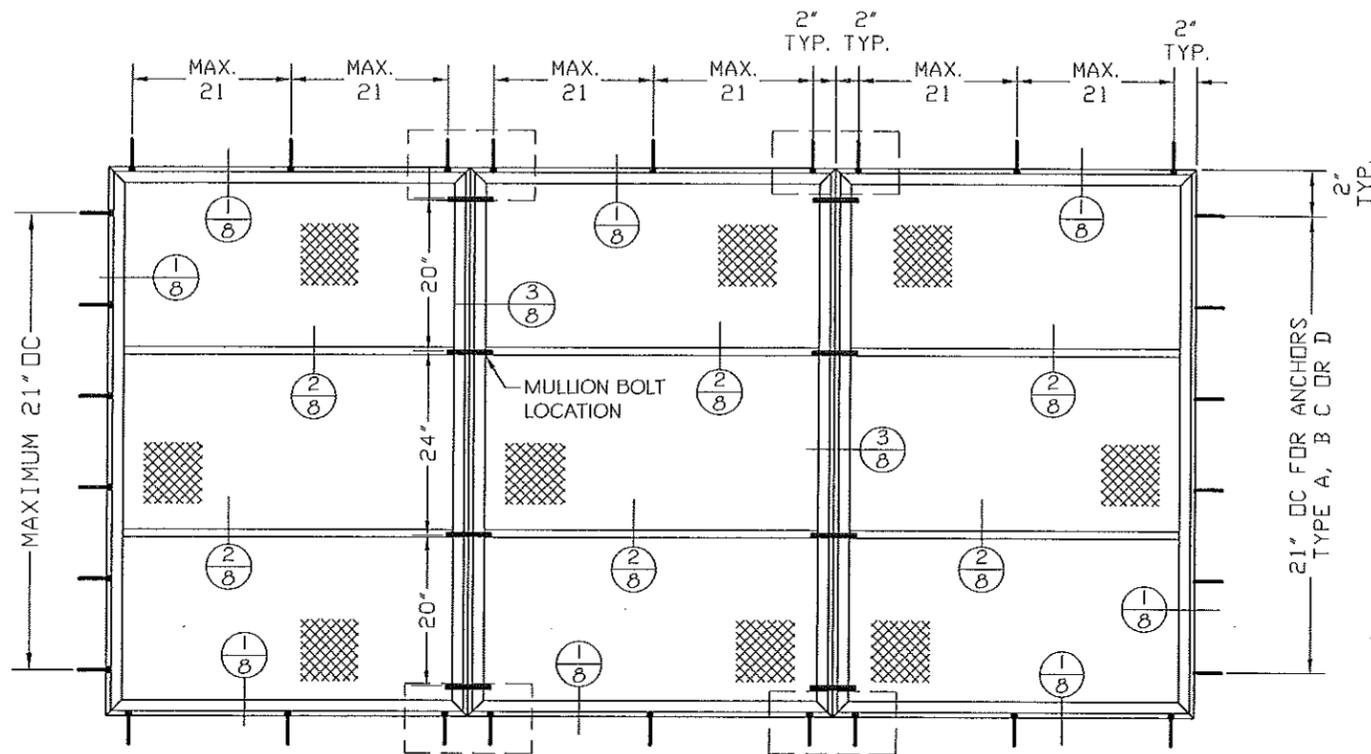
ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4-14X1 1/2 SDS GR5	1/8" METAL	.125	0.75

NOTES:  
1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING  
2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL

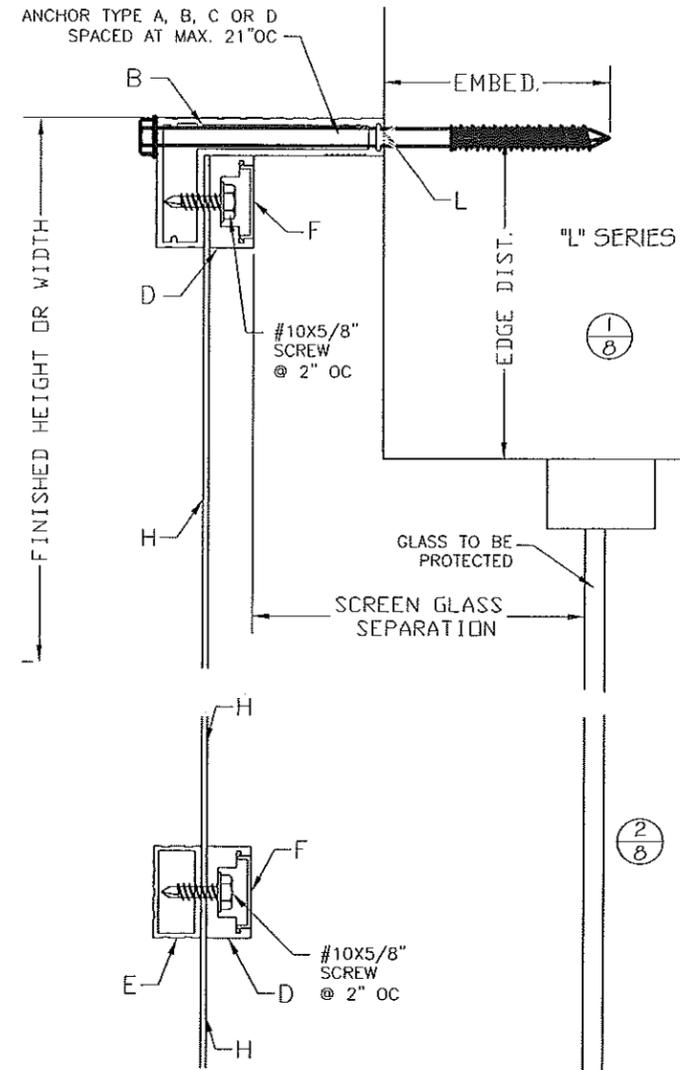


TYPE E BARRIER  
Pd= +55, -60 PSF  
FIXED MULTIPLE MODULES - APPLICABLE FOR "L" SERIES



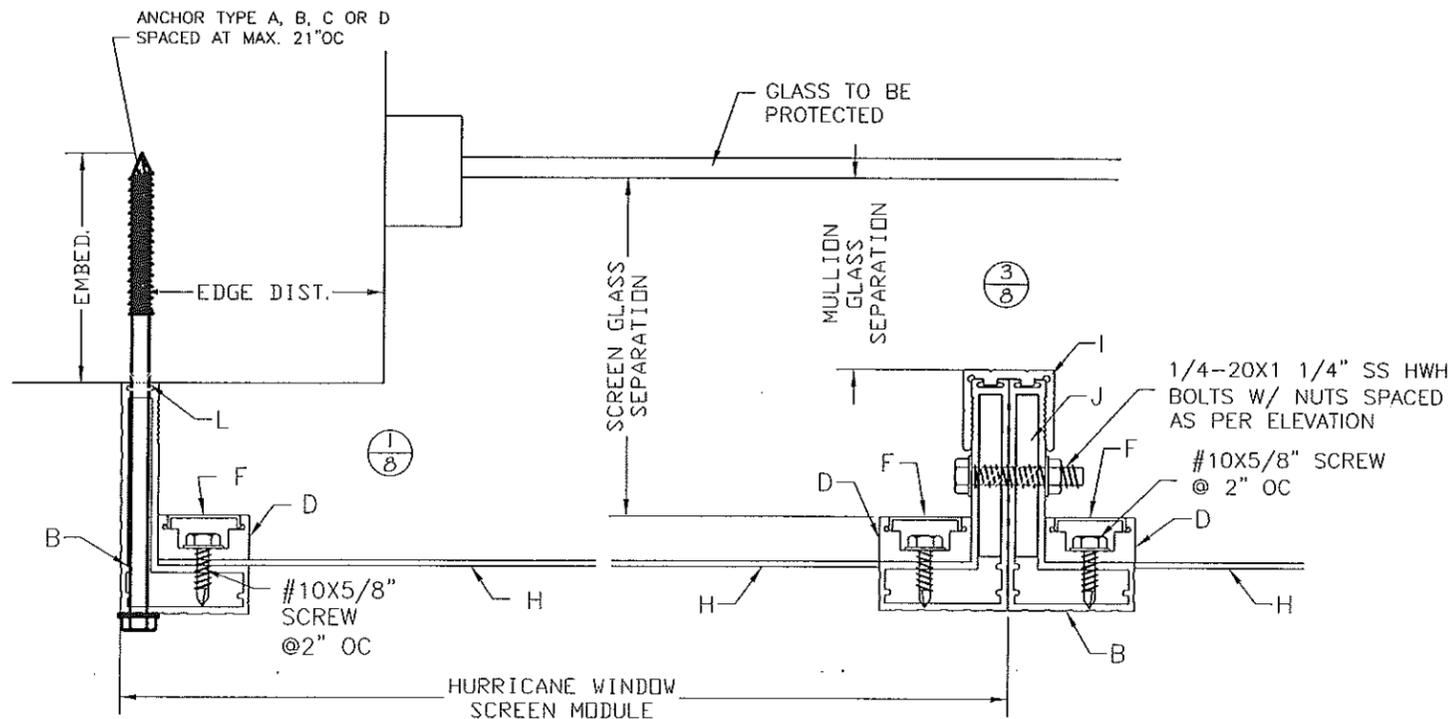
ANCHORS SPACING - "L" TRACK ONLY  
INSTALLATION INTO CONCRETE, HOLLOW BLOCK  
WOOD OR METAL STRUCTURES

TYPICAL AT EA INTERMEDIATE MULLION  
TYPE A ANCHOR - CLUSTER OF 2 ANCHORS AT 4" OC  
TYPE B ANCHOR - CLUSTER OF 4 ANCHORS AT 4" OC  
TYPE C OR D ANCHOR - CLUSTER OF 2 ANCHORS AT 3" OC



GLASS SEPARATION: (MULTIPLE UNITS)

MULLION	ELEVATION <=30'	2"
	ELEVATION >30'	1 3/8"
SCREEN	ELEVATION <=30'	4 1/4"
	ELEVATION >30'	2 5/8"



ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4-14X1 1/2 SDS GR5	1/8" METAL	.125	0.75

NOTES:  
1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING  
2- 1/8" METAL 6063-T6 ALUMINUM OR ASTM A36 STEEL

MANUFACTURER:

**PROTECH  
SCREENS, INC**

2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGGCO INC.** CA 8116  
1791 BLOUNT ROAD 907  
POMPANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGGCO@GOL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

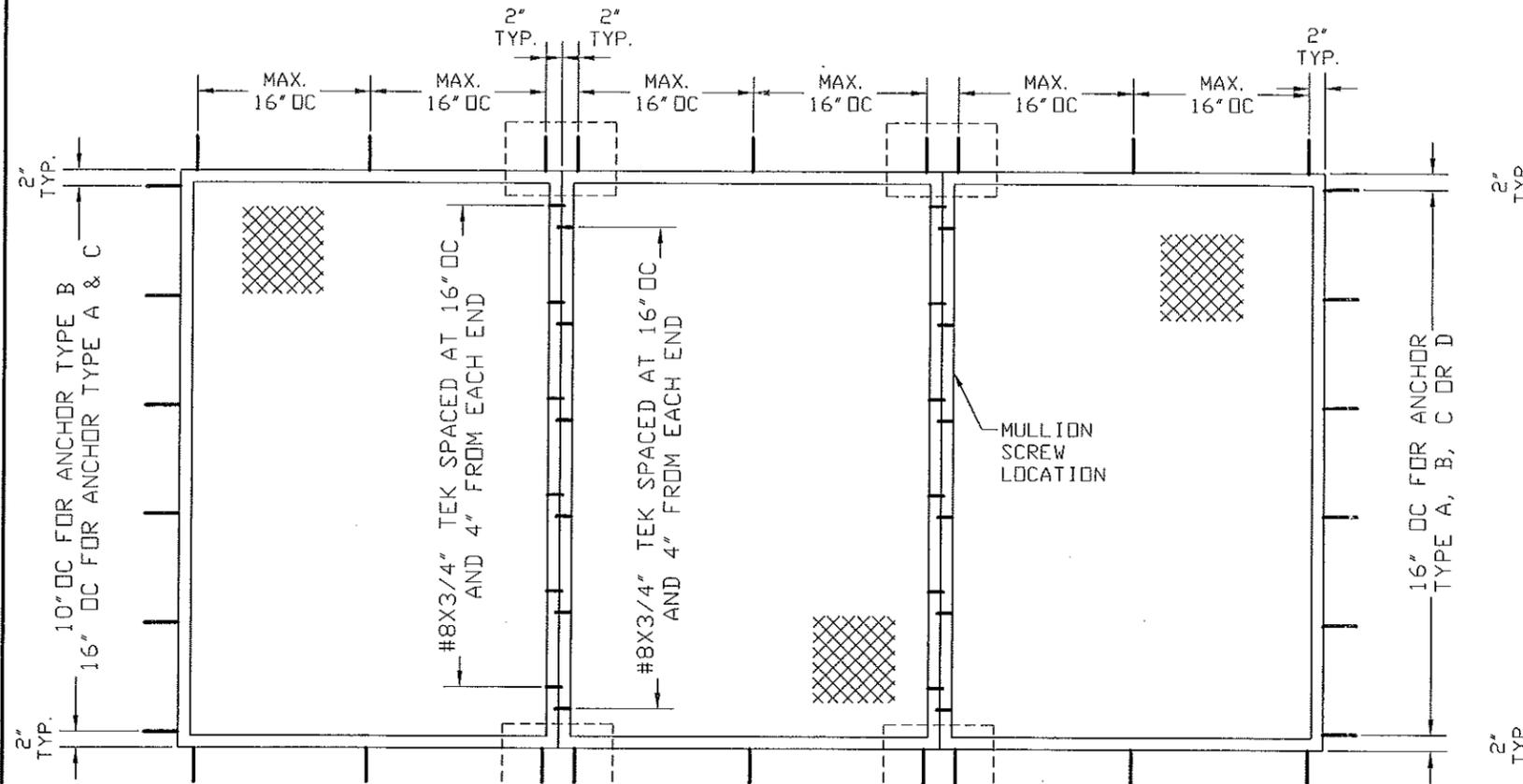
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0418.12  
Expiration Date 08/22/2017  
By *[Signature]*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

SHEET  
8 OF 10

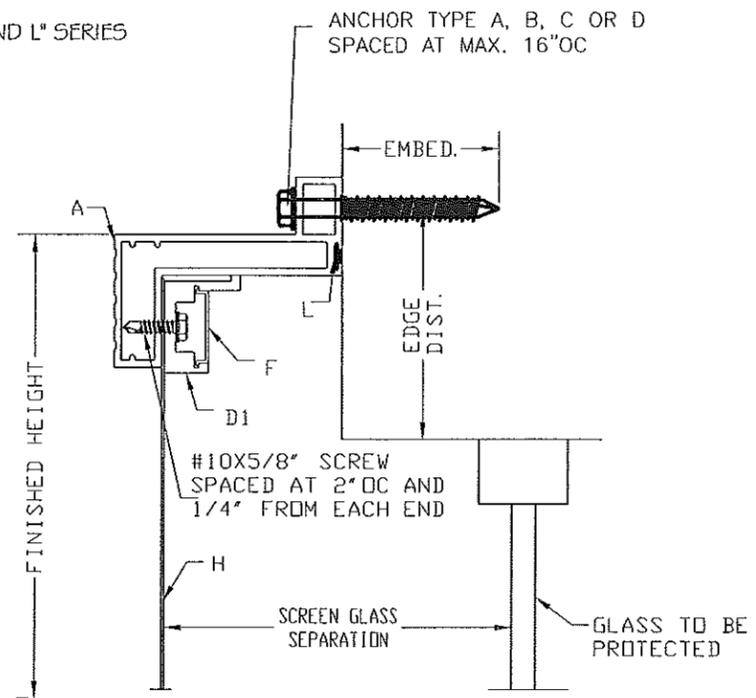
DRAWING #:  
16-050

TYPE F BARRIER  
 Pd= +55, -60 PSF  
 FIXED MULTIPLE MODULES - APPLICABLE FOR "Z AND L" SERIES



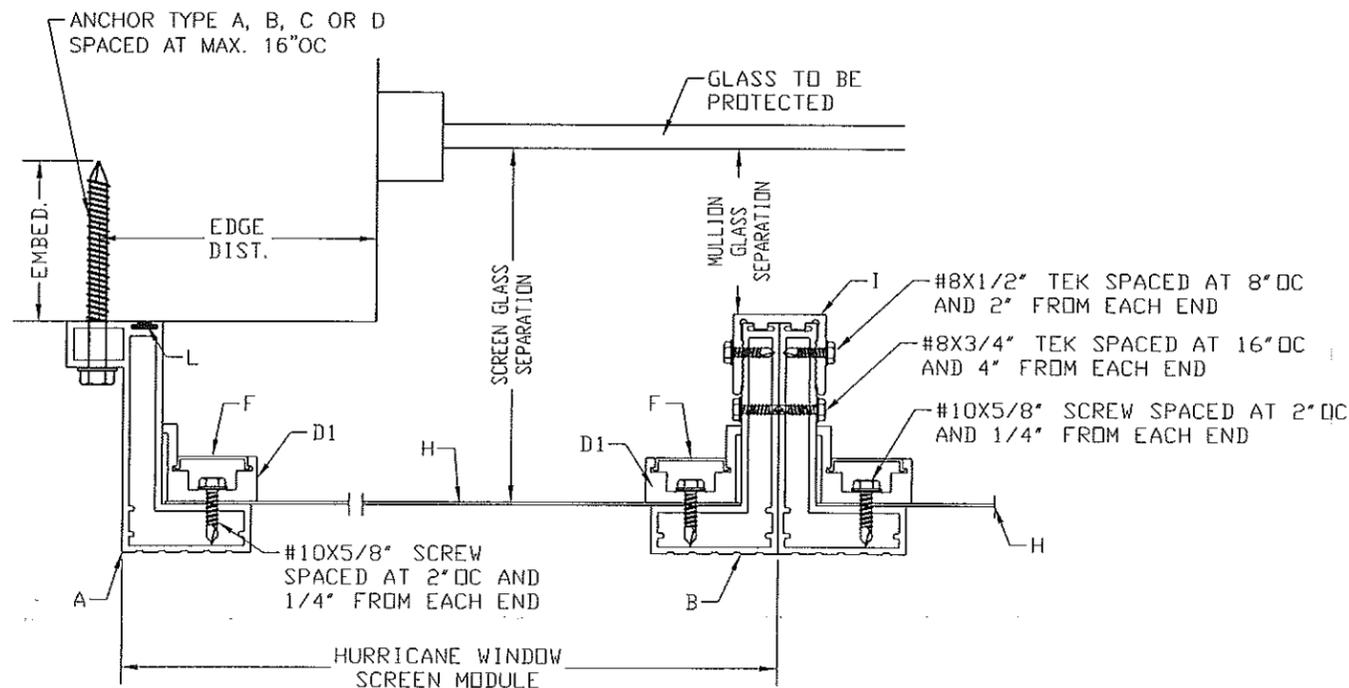
ANCHORS SPACING - "Z & L" TRACK ONLY  
 INSTALLATION INTO HOLLOW BLOCK, CONCRETE AND WOOD

TYPICAL AT EA INTERMEDIATE MULLION  
 TYPE A ANCHOR - CLUSTER OF 2 ANCHORS AT 4" OC  
 TYPE B ANCHOR - CLUSTER OF 4 ANCHORS AT 4" OC  
 TYPE C OR D ANCHOR - CLUSTER OF 2 ANCHORS AT 3" OC



GLASS SEPARATION: (MULTIPLE UNITS)

MULLION	ELEVATION ≤ 30'	2 3/8"
	ELEVATION > 30'	1 3/8"
SCREEN	ELEVATION ≤ 30'	4 1/4"
	ELEVATION > 30'	2 7/8"



ANCHORS SCHEDULE:

TYPE	DESCRIPTION	SUBSTRATUM	EMBED.	E.D.
A	1/4" TAPCONS BY ITW BUILDDEX	3000 PSI CONCRETE	1.75	2.50
B	1/4" TAPCONS BY ITW BUILDDEX	HOLLOW BLOCK	1.25	2.50
C	1/4" LAG SCREWS	WOOD SG>0.55	1.50	0.75
D	1/4-14X1 1/2 SD5 GR5	1/8" METAL	.125	0.75

NOTES:

- 1- EMBEDMENT AND EDGE DISTANCE ARE BEYOND WALL DRESSING
- 2- 1/8" METAL G063-T6 ALUMINUM OR ASTM A36 STEEL

MANUFACTURER:

**PROTECH  
 SCREENS, INC**

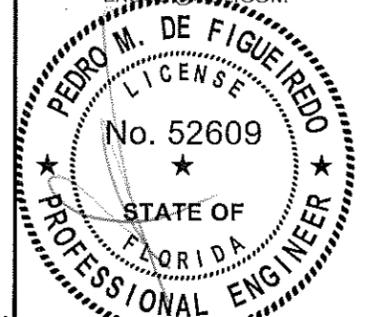
2425 ROY ROAD  
 PEARLAND - TEXAS  
 PHONE: (281) 485-2300  
 FAX: (281) 485-8837

PRODUCT:

**SCREEN BARRIER**  
 0.028" STAINLESS STEEL  
 HURRICANE SCREEN  
 LARGE & SMALL MISSILE  
 IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116  
 1791 BLOUNT ROAD 907  
 POMPANO BEACH, FL. 33069  
 Tel.: (754) 307-1319  
 ENGCO.COM



MAR 29 2016

Engineer Seal  
 Pedro De Figueiredo - PE 52609

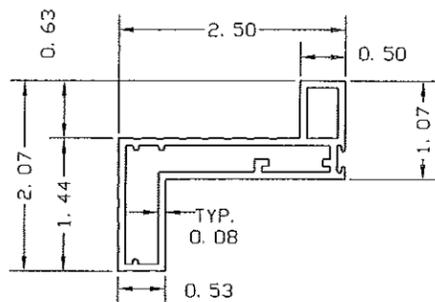
MIAMI-DADE BCCO:

PRODUCT REVISED  
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 Acceptance No 16-0418.12  
 Expiration Date 08/23/2017  
 By *Helga J. Miller*  
 Miami Dade Product Control

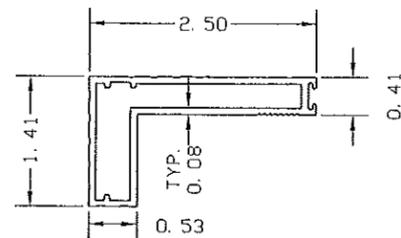
DATE: 02/24/2016  
 SCALE: NA  
 DESIGN BY: PPMF

SHEET  
 9 OF 10

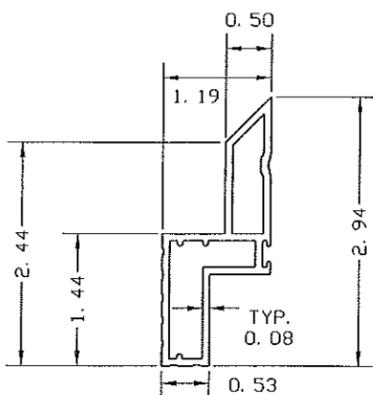
DRAWING #:  
 16-050



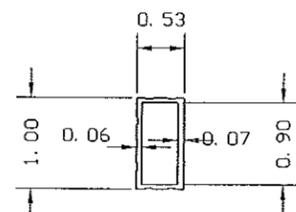
A- FLG H-NXT FRAME  
#7348 - 6063-T5  
US PAT.# PENDING  
"Z" SERIES



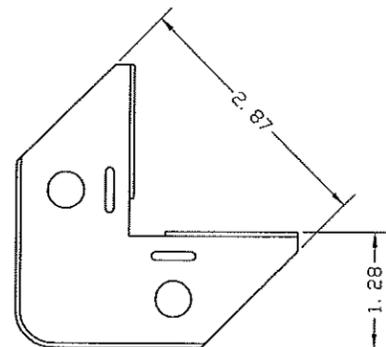
B- EXTENDED H-NXT FRAME  
#7347 - 6063-T5  
US PAT.# 6,314,690 B1  
"L" SERIES



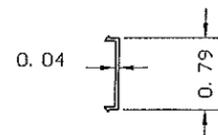
C- NXT-FLANGED FRAME  
#6971 - 6063-T5  
US PAT.# 6,230,455 B1  
"F" SERIES



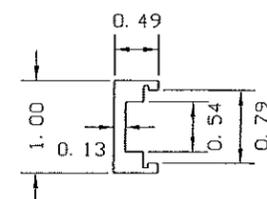
E- CENTER BAR  
#4471 - 6063-T5



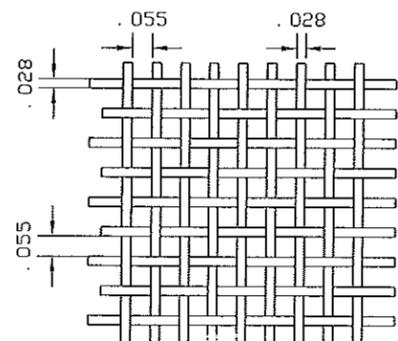
G- FRAME CORNER KEY  
#390-0393  
1.8gal.05 GALV. STEEL



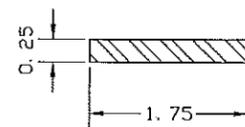
F- SCREW COVER  
#1000244 BLK - PLASTIC



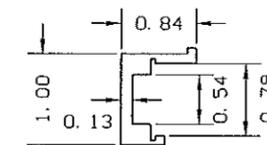
D- COVER STRIP V-CORNER  
#7372 - 6063-T5  
US PAT.# 4,932,457



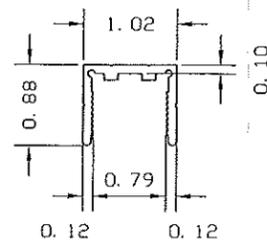
H- NXT 12 MESH  
.028 Stainless Steel 304 SCREEN



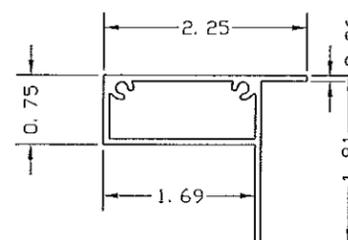
J- STEEL REINFORCEMENT  
ASTM A36 STEEL  
FULL SPAN OF MULLION



D1- COVER STRIP V-CORNER  
#10405 - 6063-T5

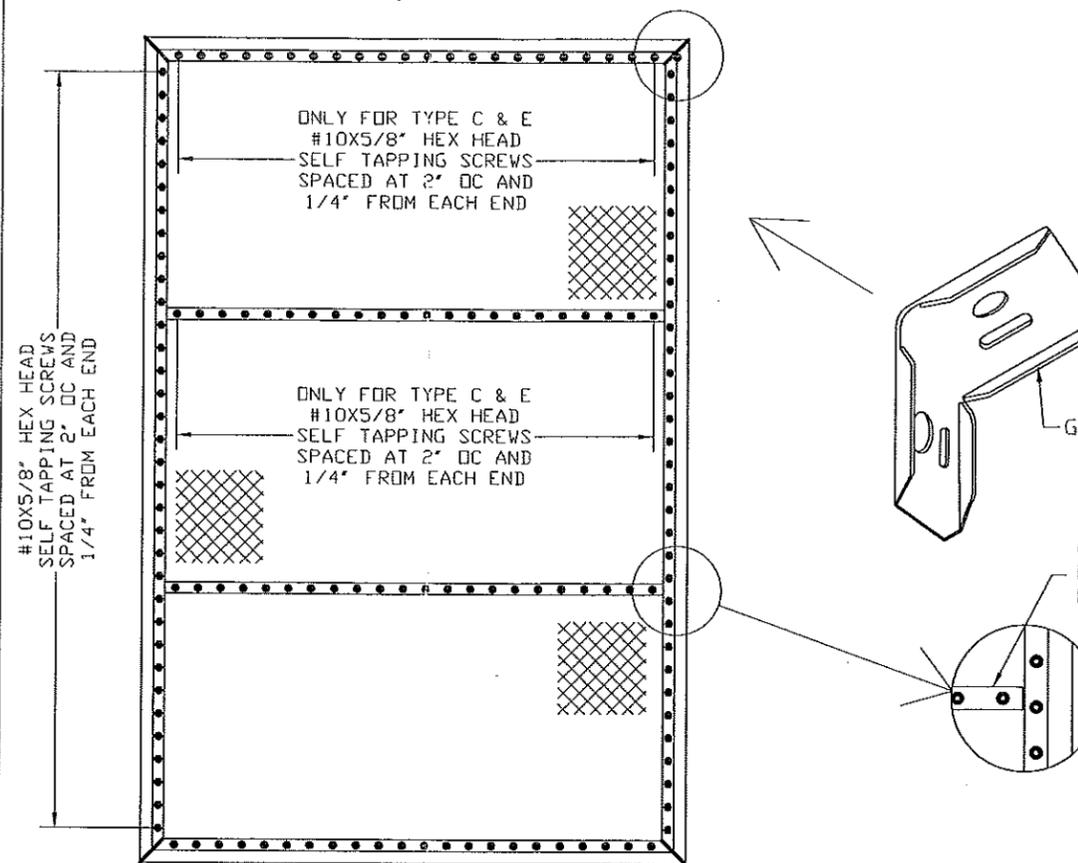


I- FRAME CAP  
6063-T5 ALUMINUM

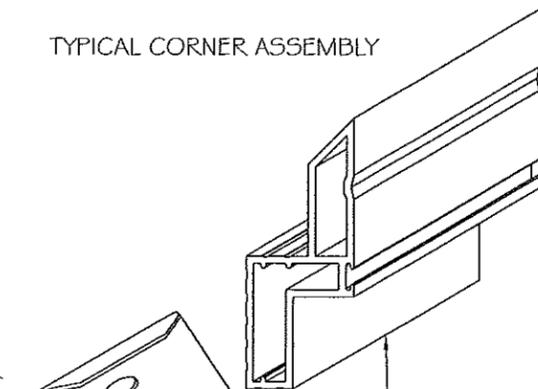


O- OPERABLE SCREEN  
SUBFRAMING - 6063-T5

REAR ELEVATION  
SCREEN PANEL ASSEMBLY  
SCREWS LAY-OUT  
TYPE C, E AND F



TYPICAL CORNER ASSEMBLY



A, B OR C  
MITERED CUT  
AT 45°

CENTER BAR DOES  
NOT CONNECTED TO  
PERIMETER FRAMING

MANUFACTURER:

**PROTECH  
SCREENS, INC**

2425 ROY ROAD  
PEARLAND - TEXAS  
PHONE: (281) 485-2300  
FAX: (281) 485-8837

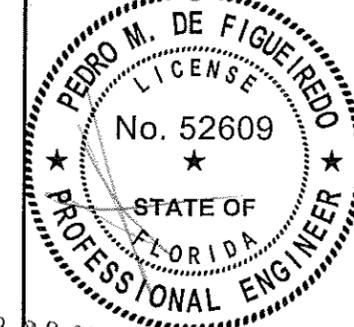
PRODUCT:

**SCREEN BARRIER**  
0.028" STAINLESS STEEL  
HURRICANE SCREEN  
LARGE & SMALL MISSILE  
IMPACT RATED

ENGINEERING:

**ENGCO INC.** CA 8116

1791 BLOUNT ROAD 907  
POMPANO BEACH, FL. 33069  
Tel.: (754) 307-1319  
ENGCO@AOL.COM



MAR 29 2016

Engineer Seal  
Pedro De Figueiredo - PE 52609

MIAMI-DADE BCCO:

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0418-12  
Expiration Date 08/22/2017  
By *Helga A. Allen*  
Miami Dade Product Control

DATE: 02/24/2016  
SCALE: NA  
DESIGN BY: PPMF

**L- WEATHER STRIPPING  
PILE FELT**

SHEET  
10 OF 10

DRAWING #:  
16-050