



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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov

Hendee Enterprises, Inc.
9350 South Point Drive
Houston, TX 77054

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: " Force 12 " Flexible Wind Abatement Screen System

APPROVAL DOCUMENT: Drawing No. F12, titled " Force 12 Flexible Wind Abatement Screen System ", sheets 1 through 15 of 15, last revision #2 dated March 16, 2009, signed & sealed by James R. Bailey, P.E., on March 24, 2009 bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and the expiration date by the 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 **renews NOA # 06-1214.03** and consists of this page 1, evidence submitted pages E-1, E-2 & E-3 as well as approval document mentioned above.

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



Helmy A. Makar
07/08/2009

NOA No. 09-0427.02
Expiration Date: 08/29/2014
Approval Date: 07/08/2009

Hendee Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0929.12

A. DRAWINGS

1. *Drawing No. F1201, titled "Force 12", prepared by Absolute Engineering Group CA-7895, dated May 3, 2000, last revision #5 dated July 19, 2001, sheets 1 through 9 of 9, signed and sealed by Robert R. Bullard, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test, and Static Wind Pressure Test of Hendee Enterprises Force 12 Protective Screen System, prepared by National Certified Testing Laboratories, Report No. NCTL 210-2310-1, 2, 3, dated May 2, 2001, signed and sealed by Barry Portnoy, P.E.*
2. *Addendum #1 to Test Report No. NCTL 210-2310-1, 2, 3, dated March 2, 2001, signed and sealed by Barry Portnoy, P.E.*
3. *Addendum #2 to Test Report No. NCTL 210-2310-1, 2, 3, dated May 2, 2001, signed and sealed by Barry Portnoy, P.E.*

C. CALCULATIONS

1. *Calculations, dated June 7, 2001, page 1 of 1, prepared by Robert R. Bullard, P.E., signed and sealed by Robert R. Bullard, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Mill certified Inspection Report with screen's physical properties.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #02-0419.02

A. DRAWINGS

See NOA 00-0929.12

B. TESTS

See NOA 00-0929.12

C. CALCULATIONS

See NOA 00-0929.12

D. MATERIAL CERTIFICATIONS

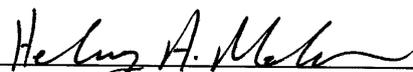
See NOA 00-0929.12

E. STATEMENTS

See NOA 00-0929.12

F. OTHER

NOA 00-0929.12



Jeffrey A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 09-0427.02

Expiration Date: 08/29/2014

Approval Date: 07/08/2009

Hendee Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #04-0413.04

A. DRAWINGS

1. *Drawing No. F1201, titled "Force 12 panel mounting cross sections", sheets 1 thru 9 of 9, dated May 3, 2000, last revision dated 07/19/2001, sheets 1 to 4, and 06/26/2001, sheets 5 to 9, all prepared, signed & sealed by Robert R. Bullard, P.E.*

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.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 06-1214.03

A. DRAWINGS

1. *Drawing No. F12, titled " Force 12 Flexible Wind Abatement Screen System ", sheets 1 through 15 of 15, last revision #2 dated March 16, 2009, signed & sealed by James R. Bailey, P.E., on March 24, 2009.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Calculations, dated September 11, 2007, page 1 through 17 of 17, prepared by Scott Wolters, P.E., signed and sealed by Scott Wolters, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 09-0427.02
Expiration Date: 08/29/2014
Approval Date: 07/08/2009

Hendee Enterprises, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

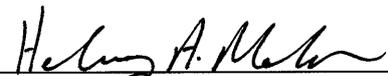
1. *None.*

D. QUALITY ASSURANCE

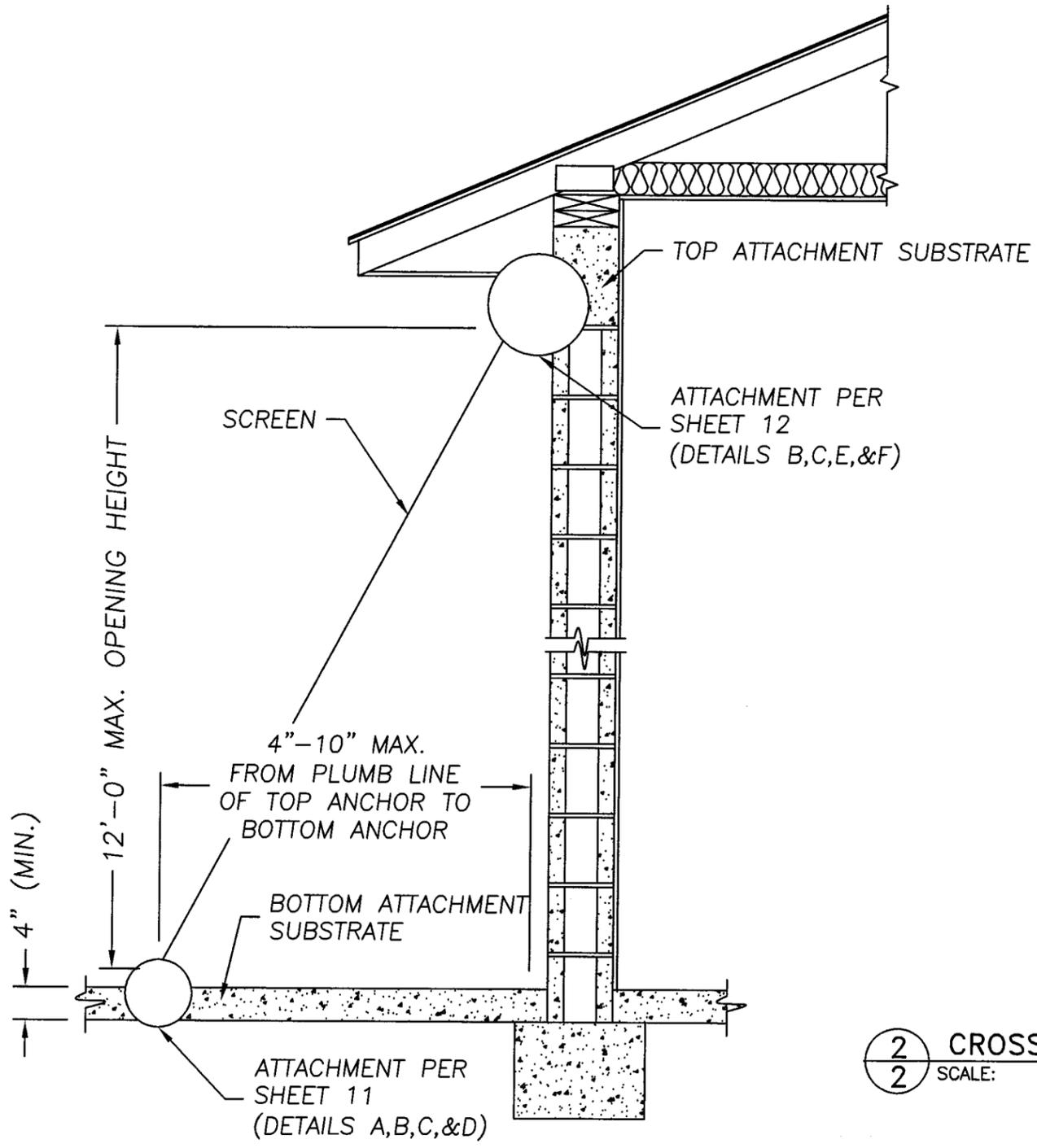
1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



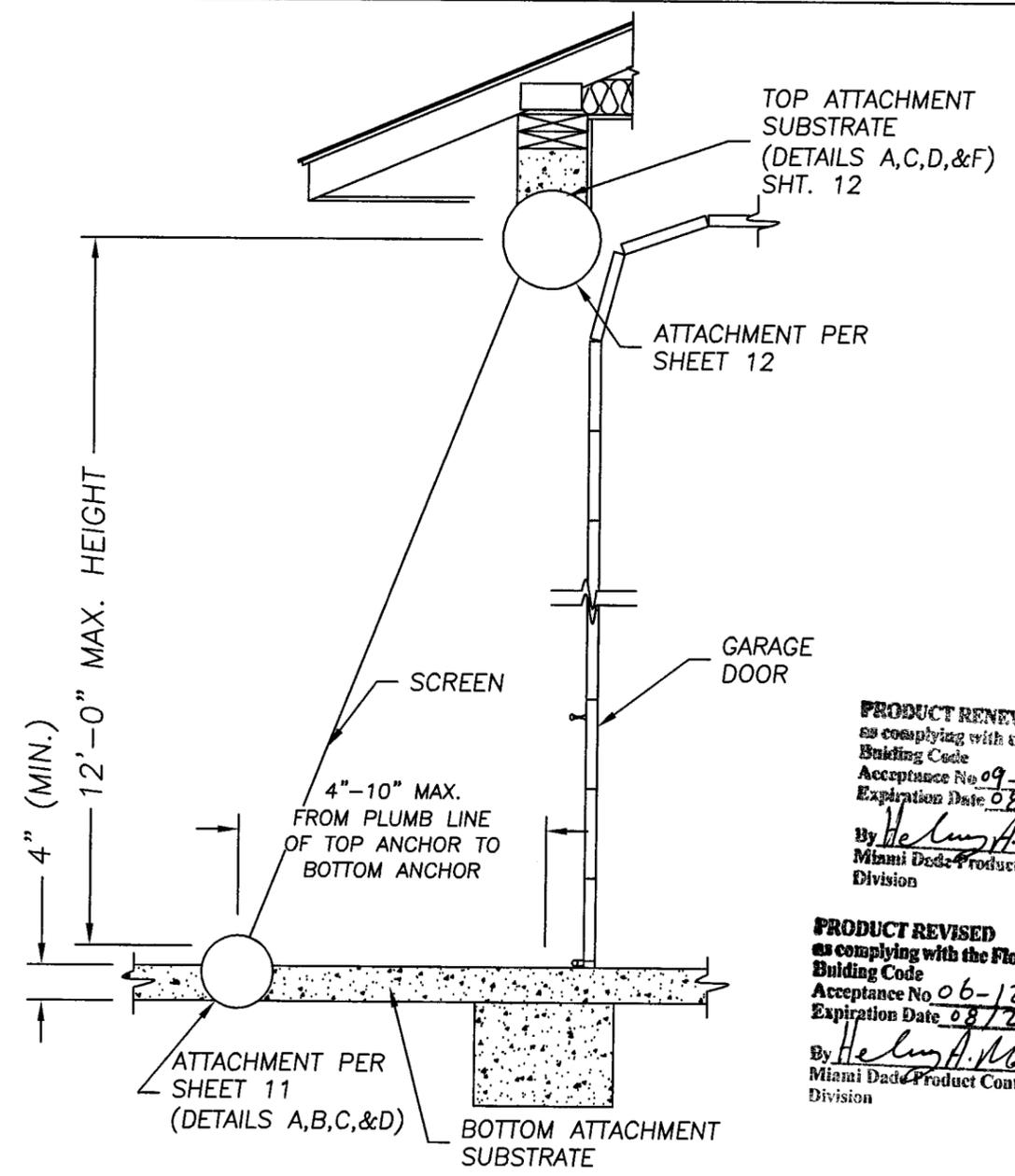
Henry A. Makar, P.E., M.S.
Senior Product Control Examiner
NOA No. 09-0427.02
Expiration Date: 08/29/2014
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1 SECTION VIEW OF ANGLE MOUNTED SCREEN
 2 SCALE: NTS = 1'-0"

JAMES R. BAILEY, Ph.D., P.E.
 PLATINUM RISK CONSULTING LLC
 4931 CHAPPEL HILL DR.
 MISSOURI CITY, TX 77459
 PHONE: 281-403-2825
 FL COA NO. 28156
 FL P.E. NO. 67773

James R. Bailey 3/24/09



2 CROSS SECTION OF ANG. MOUNTED SCREEN (SIDE VIEW/GARAGE DOOR)
 2 SCALE: NTS = 1'-0"

PRODUCT REVIEWED
 as complying with the Florida
 Building Code
 Acceptance No 09-0427.02
 Expiration Date 08/29/2014
 By *Heung A. Mohr*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 06-1214.03
 Expiration Date 08/29/2009
 By *Heung A. Mohr*
 Miami Dade Product Control
 Division

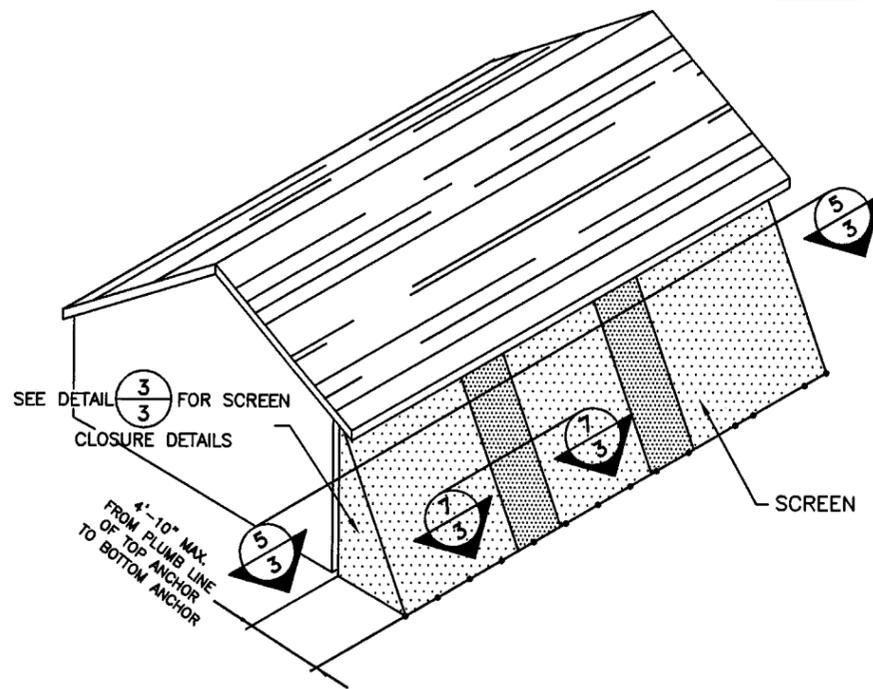
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

HE Hende Enterprises, Inc.
 The Innovative Solutions Company
 P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

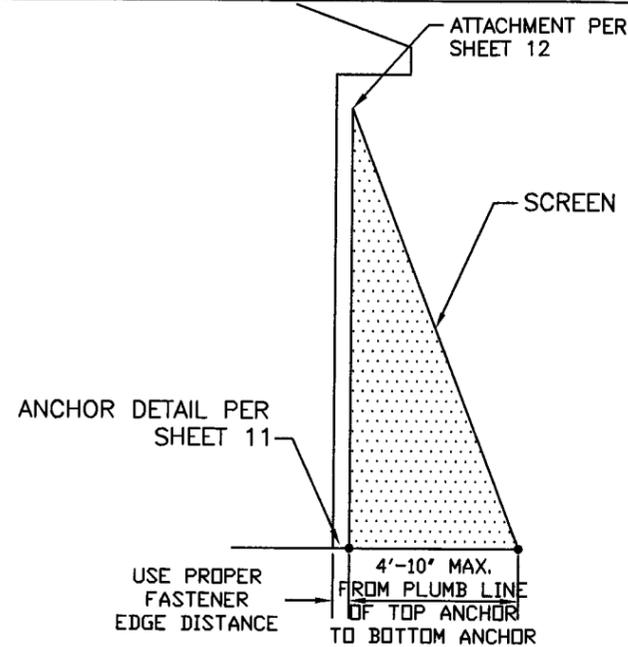
TITLE: FORCE 12
 ANGLED SCREEN MOUNTING CROSS SECTIONS

CLIENT: VARIES
 LOCATION: VARIES

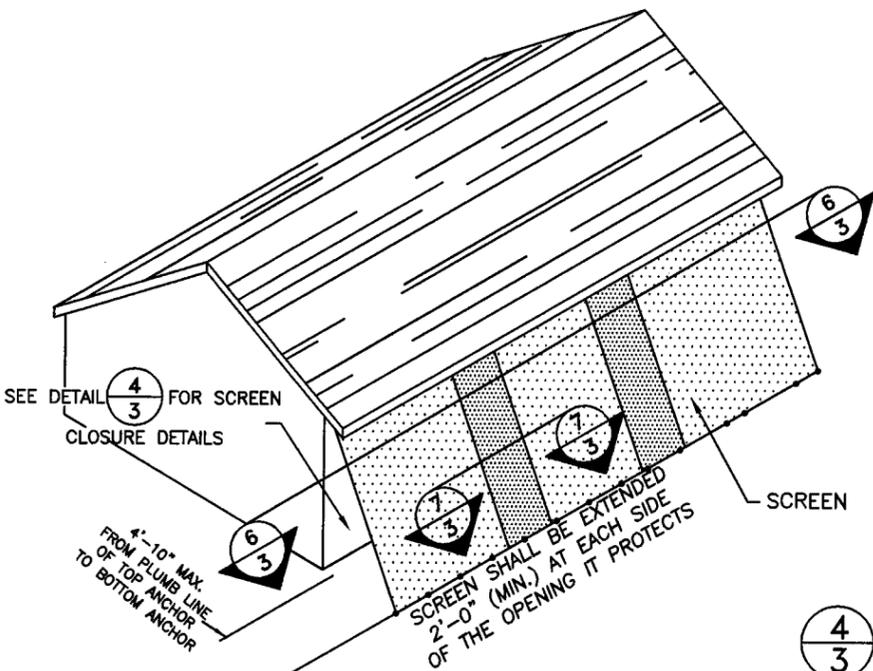
DRAWN BY: AD SCALE: NTS = 1'-0" SHEET 2 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_3 REV: 2



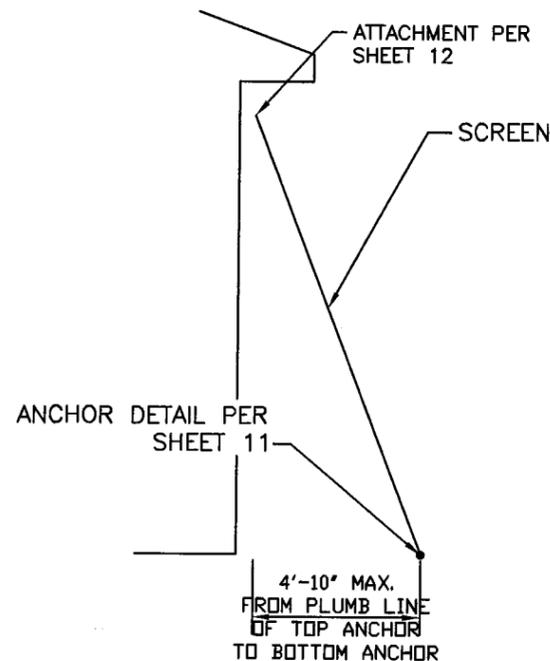
1 SCREEN WITH SIDE CLOSURE SCREEN
3 SCALE: NTS = 1'-0"



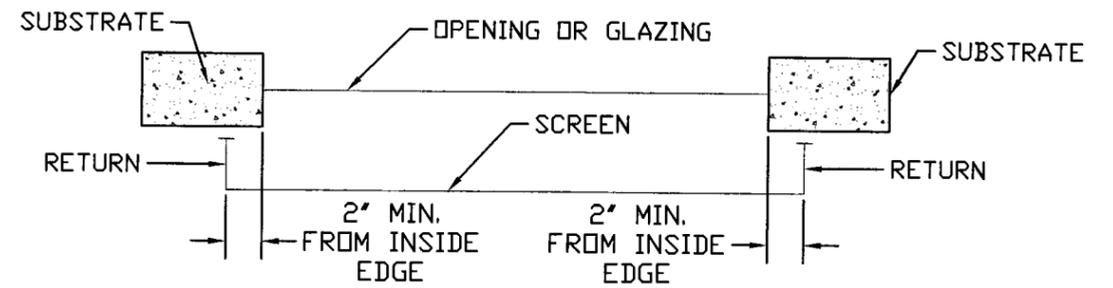
3 SIDE CLOSURE SCREEN
3 SCALE: NTS = 1'-0"



2 SCREEN WITHOUT SIDE CLOSURE SCREEN
3 SCALE: NTS = 1'-0"

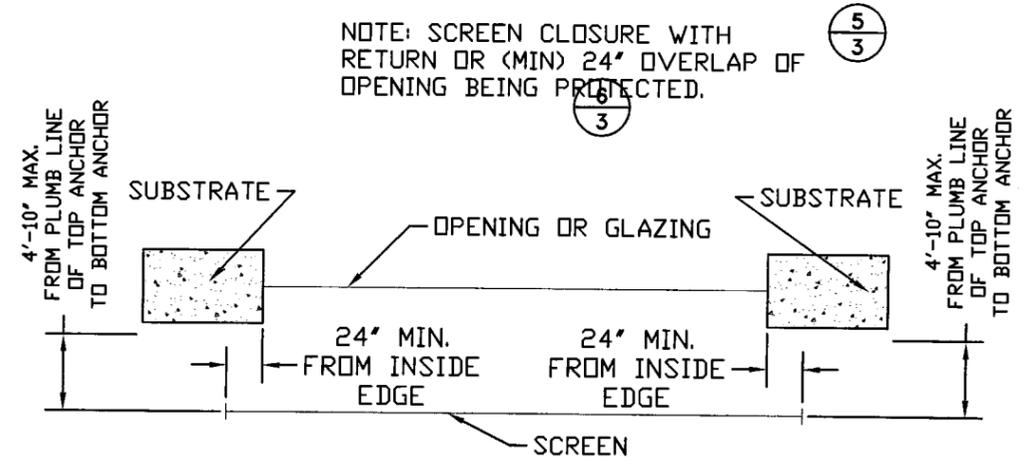


4 SIDE CLOSURE SCREEN - NO RETURN
3 SCALE: NTS = 1'-0"

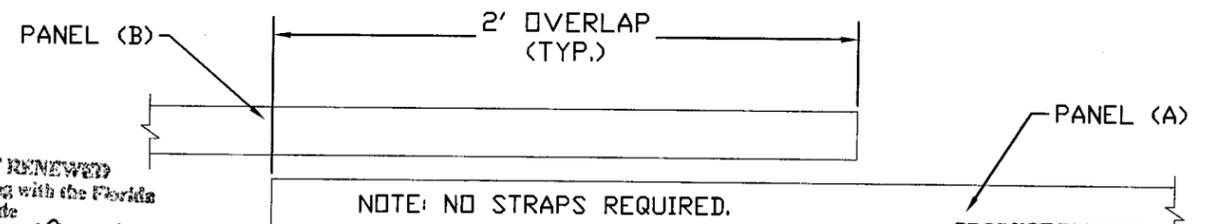


5 ANGLED SCREEN CLOSURE WITH RETURN (PLAN VIEW)
3 SCALE: NTS = 1'-0"

NOTE: SCREEN CLOSURE WITH RETURN OR (MIN) 24" OVERLAP OF OPENING BEING PROTECTED.



6 ANGLED SCREEN CLOSURE - NO RETURN (PLAN VIEW)
3 SCALE: NTS = 1'-0"



7 PANEL OVERLAP - SECTION
3 SCALE: NTS = 1'-0"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 09-0427.02
 Expiration Date 08/29/2014
 By *Helmut A. Mehn*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
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 Acceptance No. 06-1214.03
 Expiration Date 08/29/2009
 By *Helmut A. Mehn*
 Miami Dade Product Control
 Division

JAMES R. BAILEY, Ph.D., P.E.
 PLATINUM RISK CONSULTING LLC
 4931 CHAPPEL HILL DR.
 MISSOURI CITY, TX 77459
 PHONE: 281-403-2825
 FL COA NO. 28156
 FL P.E. NO. 67773

James R. Bailey 3/24/09

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

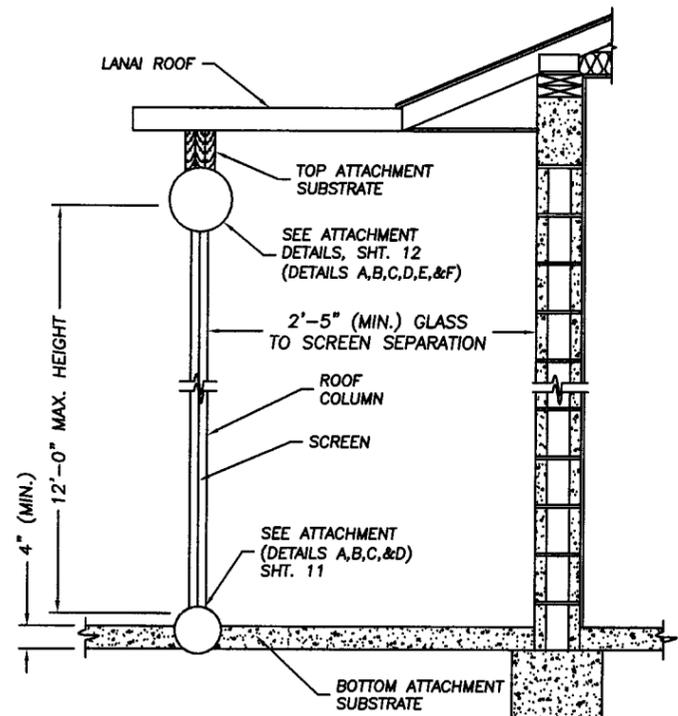
HE Hendee Enterprises, Inc.
 The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

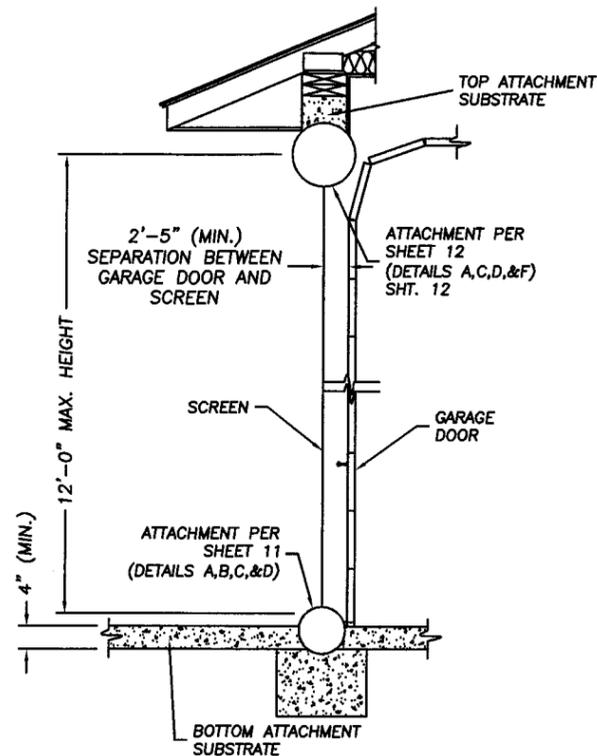
TITLE: FORCE 12
 CLOSURE DETAILS FOR ANGLED SCREEN

CLIENT: VARIES
 LOCATION: VARIES

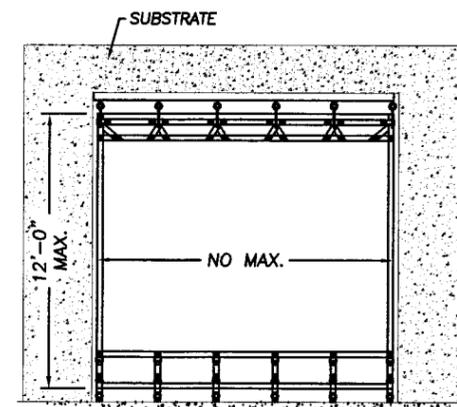
DRAWN BY: AD SCALE: NTS SHEET 3 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_2 REV: 2



1 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW)/LANAI
 4 SCALE: NTS=1'-0"



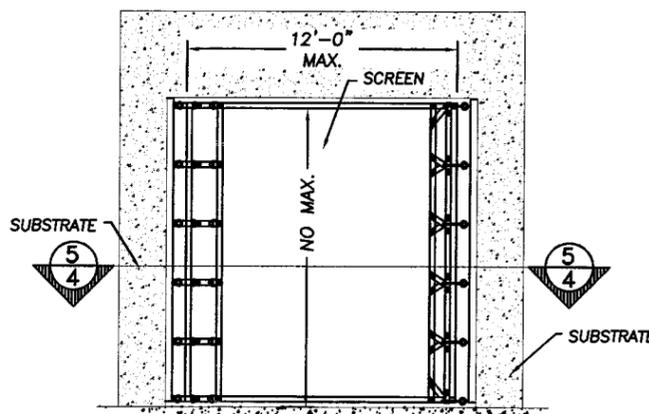
2 CROSS SECTION OF VERT. MOUNTED STRAIGHT DROP SCREEN (SIDE VIEW/GARAGE DOOR)
 4 SCALE: NTS=1'-0"



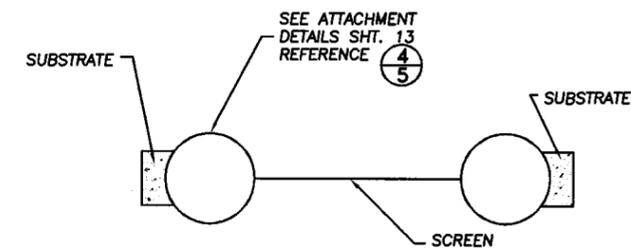
3 VERT. MOUNTED STRAIGHT DROP SCREEN (ELEVATION)
 4 SCALE: NTS=1'-0"

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 09-0427.02
 Expiration Date 08/29/2014
 By *Helmut A. Meiser*
 Miami Dade Product Control
 Division

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 By *Helmut A. Meiser*
 Miami Dade Product Control
 Division



4 HOR. MOUNTED STRAIGHT DROP SCREEN (ELEVATION)
 4 SCALE: NTS=1'-0"



**IF THE SUBSTRATE IS NOT A CONTINUOUS LATERALLY-SUPPORTED WALL MADE OF STRUCTURAL TIMBER FRAMING, RE-ENFORCED CONCRETE, OR RE-ENFORCED CONCRETE BLOCK OR THE SUBSTRATE IS A COLUMN WITHOUT INTERMEDIATE LATERAL SUPPORT, THEN A LICENSED PROFESSIONAL ENGINEER IS TO DETERMINE IF COLUMN/SUBSTRATE CAN RESIST APPLIED LOADS FROM THE SCREEN AS REQUIRED BY CODE.

5 SECTION OF HOR. MOUNTED STRAIGHT DROP SCREEN (PLAN VIEW)
 4 SCALE: NTS=1'-0"

JAMES R. BAILEY, Ph.D., P.E.
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 4931 CHAPPEL HILL DR.
 MISSOURI CITY, TX 77459
 PHONE: 281-403-2825
 FL COA NO. 28156
 FL P.E. NO. 67773

James R. Bailey
 3/24/09

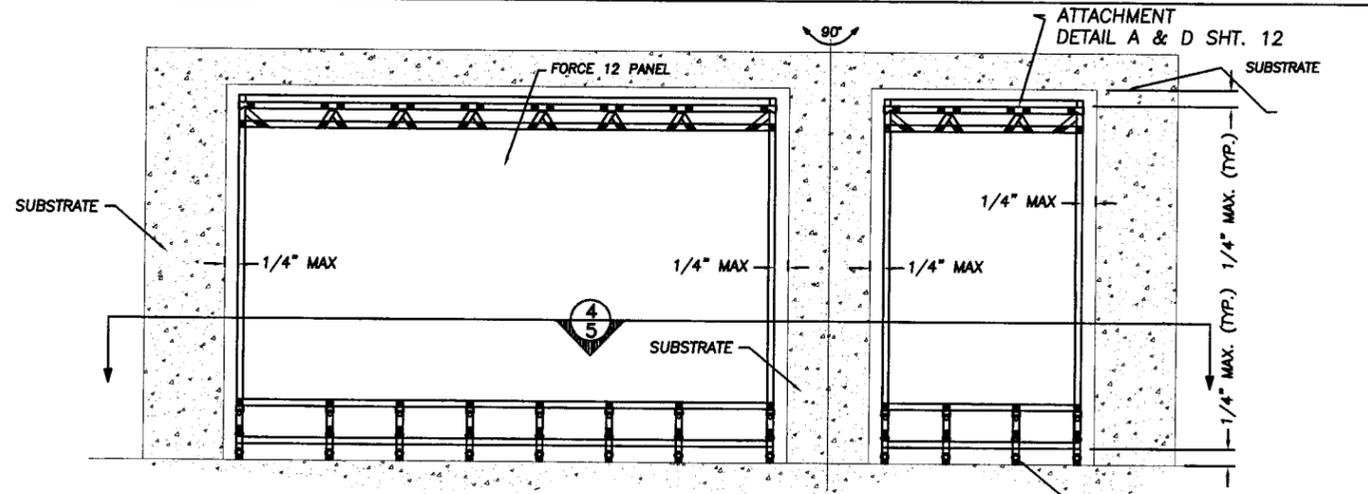
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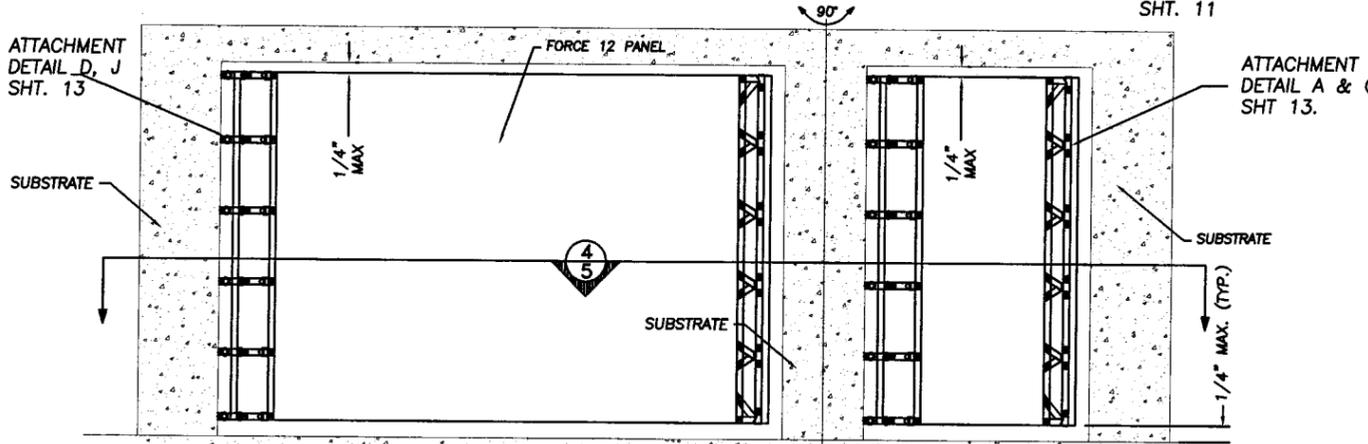
TITLE: FORCE 12
 STRAIGHT DROP SCREEN MOUNTING CROSS SECTIONS

CLIENT: VARIES
 LOCATION: VARIES

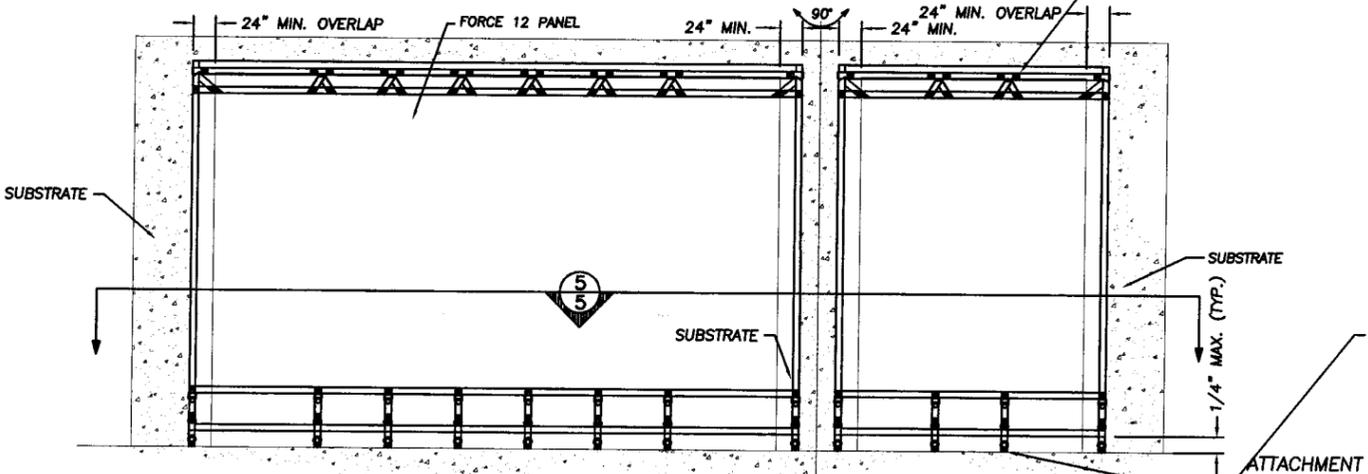
DRAWN BY: AD SCALE: NTS= 1'-0" SHEET 4 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_3 REV: 2



1 STRAIGHT DROP FORCE 12 PANEL (VERT. MOUNT, FRONT/SIDE ELEVATION)
SCALE: NTS=1'-0"

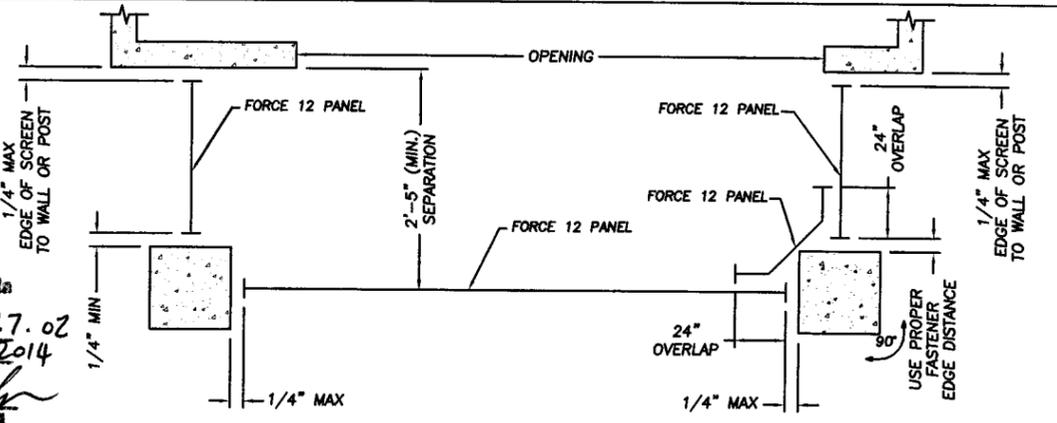


2 STRAIGHT DROP FORCE 12 PANEL (HOR. MOUNT, FRONT/SIDE ELEVATION)
SCALE: NTS=1'-0"

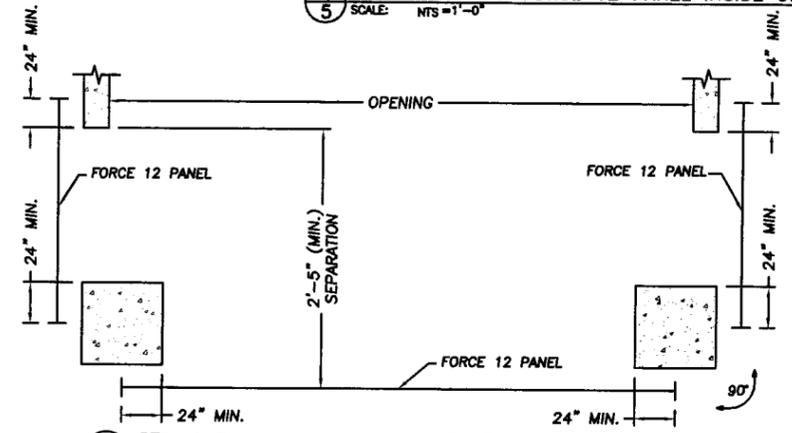


3 STRAIGHT DROP FORCE 12 PANEL (PAST OPENING MOUNT, VER. MOUNT, FRONT/SIDE ELEVATION)
SCALE: NTS=1'-0"

PRODUCT RENEWED
As complying with the Florida Building Code
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By *Helmut A. Mehn*
Miami Dade Product Control Division

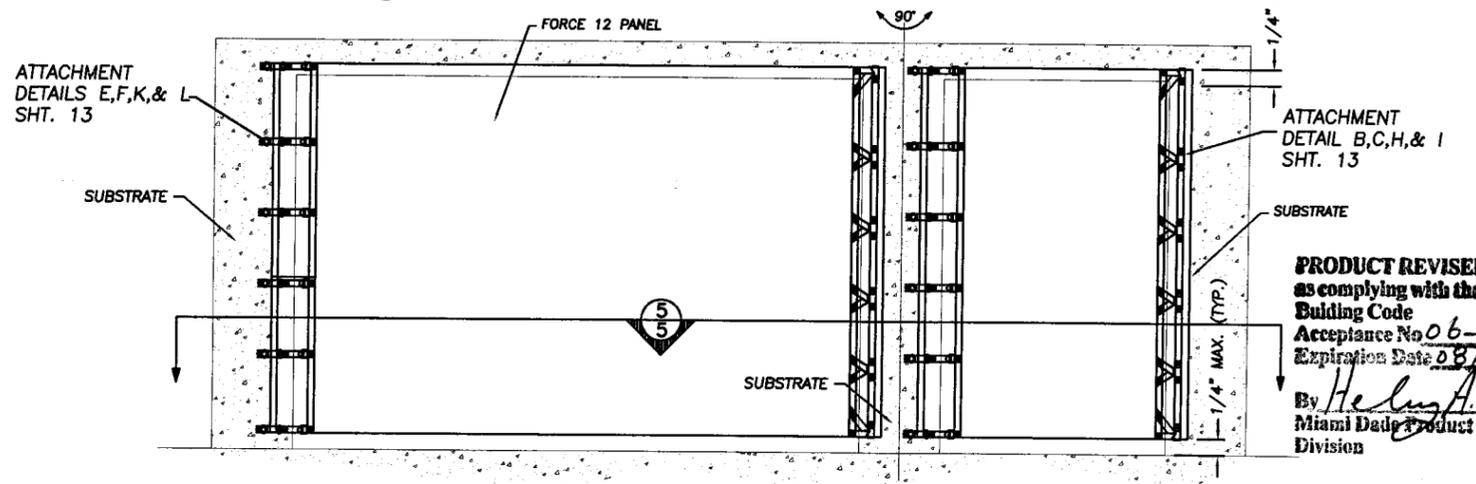


4 STRAIGHT DROP FORCE 12 PANEL INSIDE OF WALLS/POST (PLAN)
SCALE: NTS=1'-0"



5 STRAIGHT DROP FORCE 12 PANEL PASSING WALL (PLAN)
SCALE: NTS=1'-0"

NOTE: SCREEN CLOSURE WITH RETURN DR (MIN) 24" OVERLAP OF OPENING BEING PROTECTED.



6 STRAIGHT DROP FORCE 12 PANEL (PAST OPENING MOUNT, HOR. MOUNT, FRONT/SIDE ELEVATION)
SCALE: NTS=1'-0"

PRODUCT REVISED
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Miami Dade Product Control Division

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REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

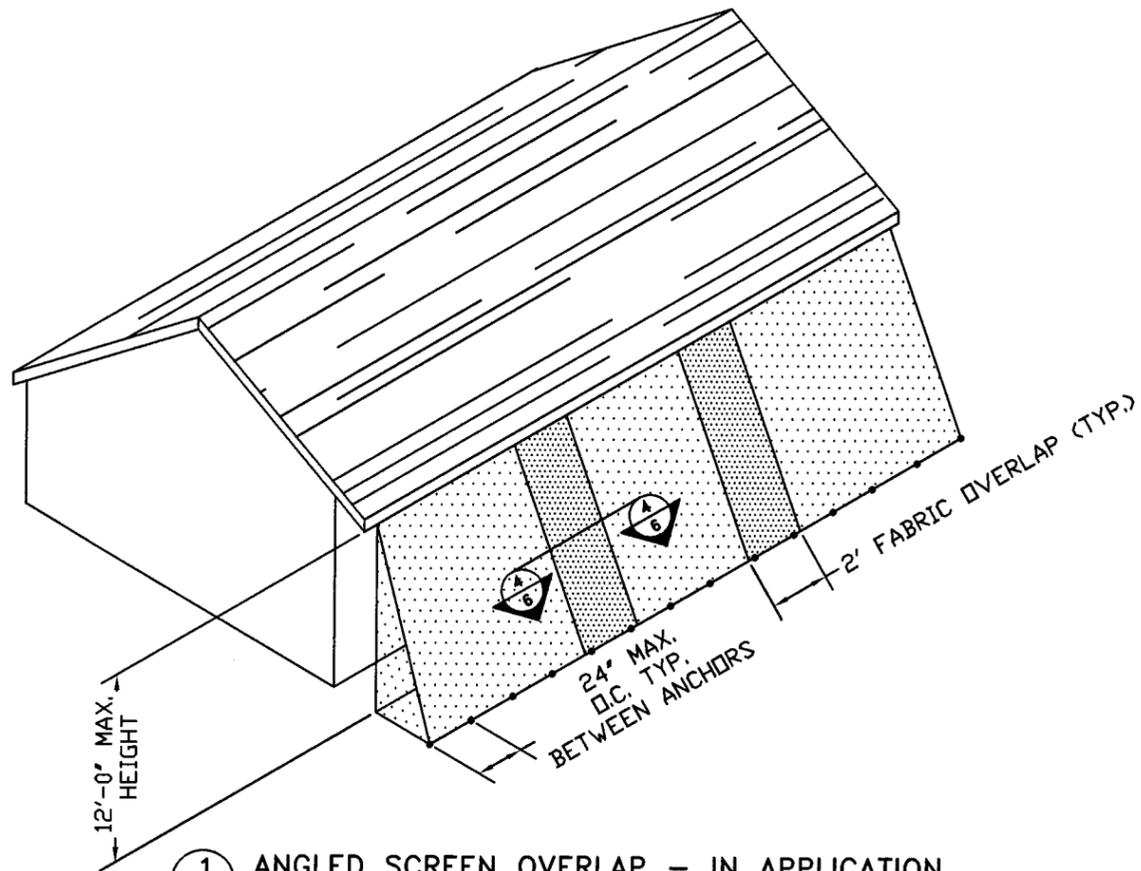
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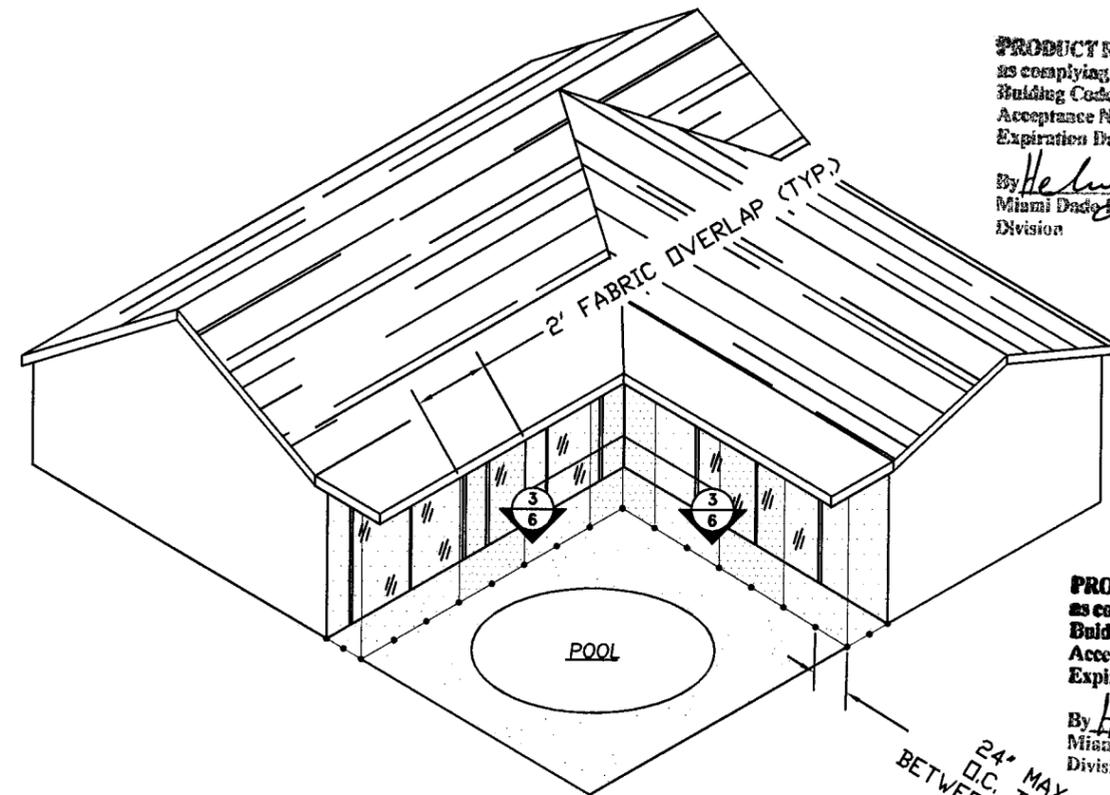
TITLE: FORCE 12 - STRAIGHT DROP SCREEN MOUNTING ELEVATIONS/CROSS SECTIONS

CLIENT: VARIES
LOCATION: VARIES

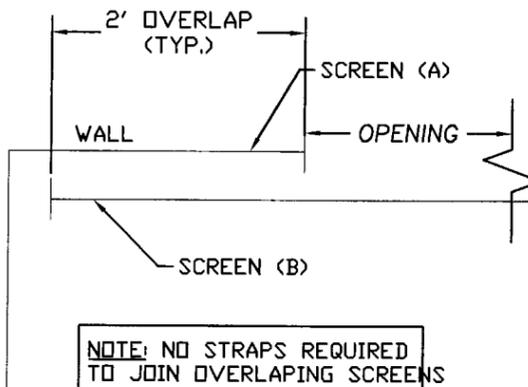
DRAWN BY: AD SCALE: NTS= 1'-0" SHEET 5 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_3 REV: 2



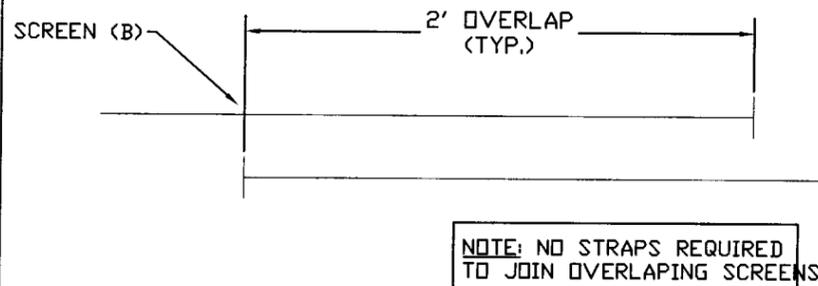
1 ANGLLED SCREEN OVERLAP - IN APPLICATION
 6 SCALE: NTS = 1'-0"



2 VERTICAL SCREEN CORNER OVERLAP - IN APPLICATION
 6 SCALE: NTS = 1'-0"



3 CORNER PANEL OVERLAP (PLAN VIEW)
 6 SCALE: NTS = 1'-0"



4 SCREEN OVERLAP - SECTION
 6 SCALE: NTS = 1'-0"

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 By *Heather A. Malar*
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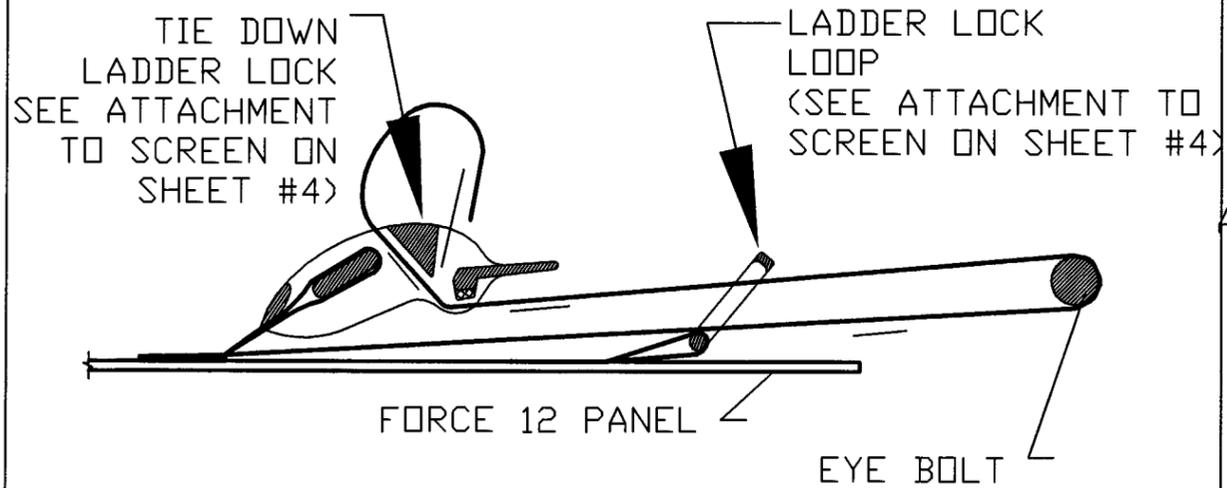
HE Hendee Enterprises, Inc.
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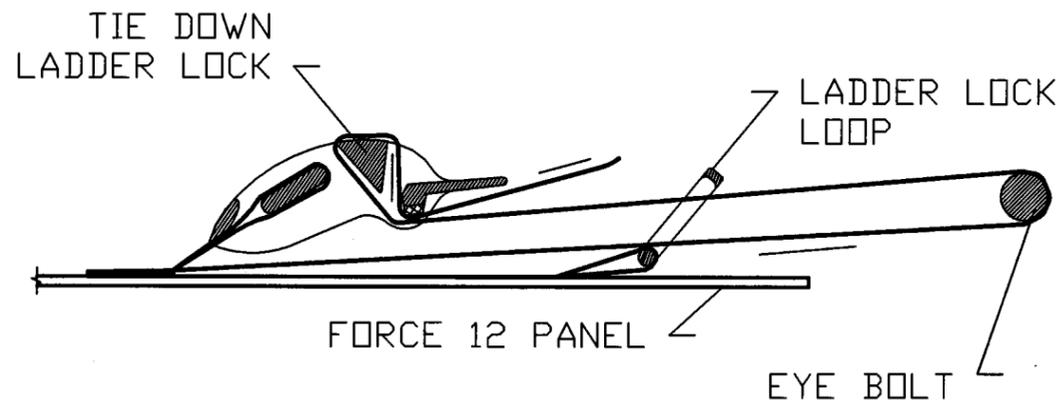
TITLE: FORCE 12
 OVERLAPPING PANEL DETAILS

CLIENT: VARIES
 LOCATION: VARIES

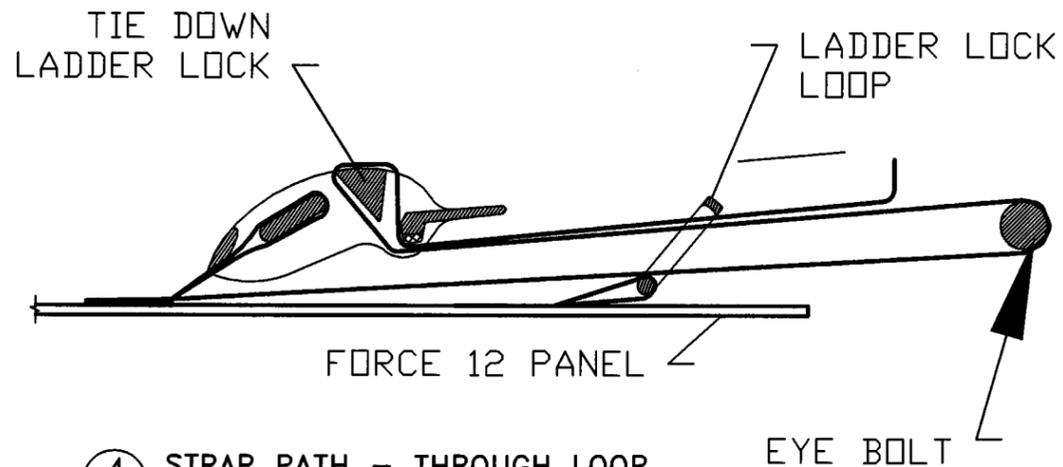
DRAWN BY: AD SCALE: NTS SHEET 6 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_2 REV: 2



2 STRAP PATH - THROUGH BUCKLE
D1 SCALE: N.T.S. = 1'-0"



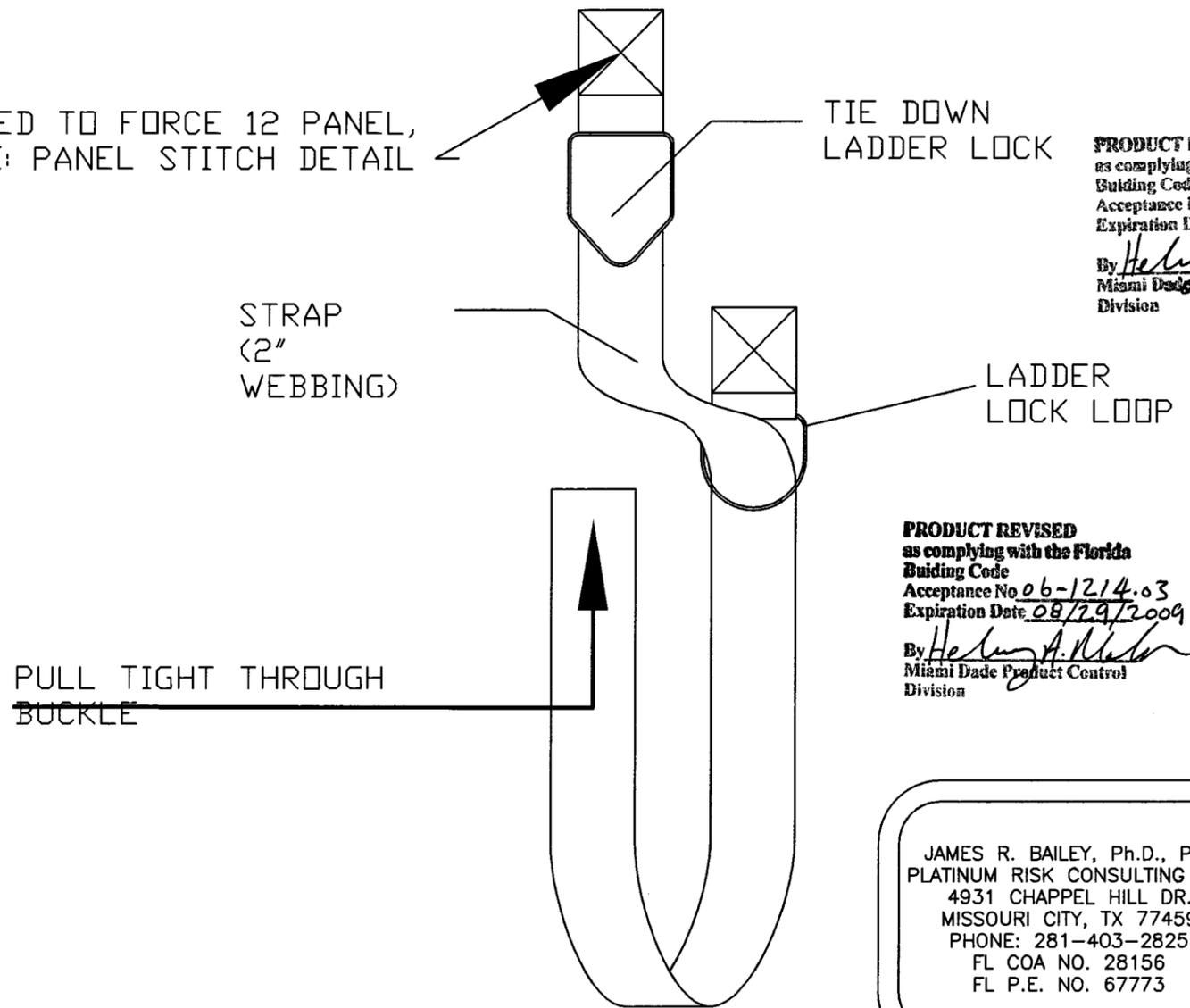
3 STRAP PATH - TIGHTEN
D1 SCALE: N.T.S. = 1'-0"



4 STRAP PATH - THROUGH LOOP
D1 SCALE: N.T.S. = 1'-0"

SCREEN ATTACHMENT STRAP DETAIL
AT THE BOTTOM OF SCREEN

ATTACHED TO FORCE 12 PANEL,
RE: PANEL STITCH DETAIL



1 PANEL ATTACHMENT - STRAP
D1 SCALE: N.T.S. = 1'-0"

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 09-0427.02
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By *Heather A. Mullen*
Miami Dade Product Control
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PRODUCT REVISED
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FL P.E. NO. 67773

James R. Bailey 3/2/09

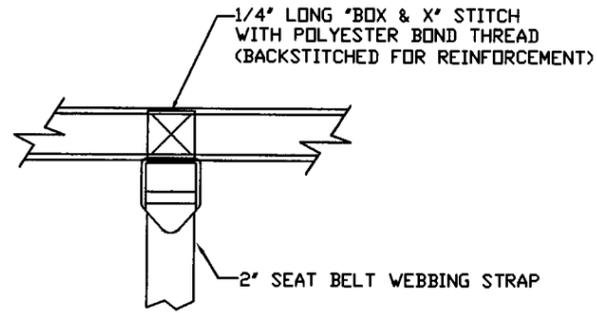
REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

HE Hendee Enterprises, Inc.
The Innovative Solutions Company
P.O.Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

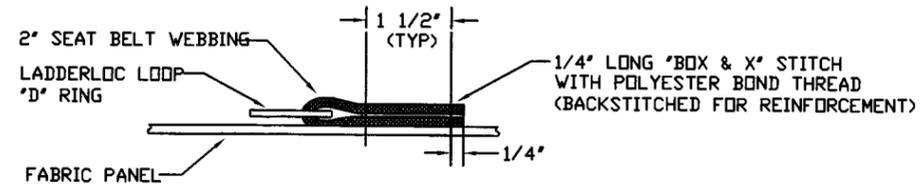
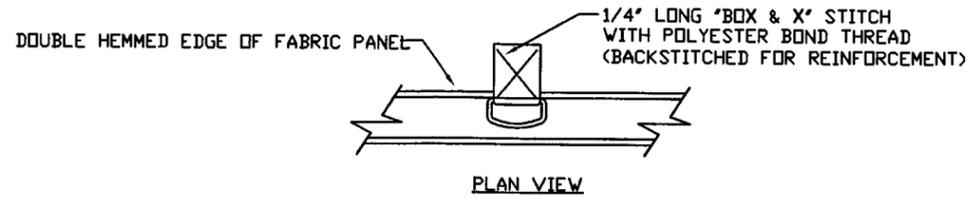
TITLE: FORCE 12 - STRAIGHT DROP
STRAP DETAILS

CLIENT: VARIES
LOCATION: VARIES

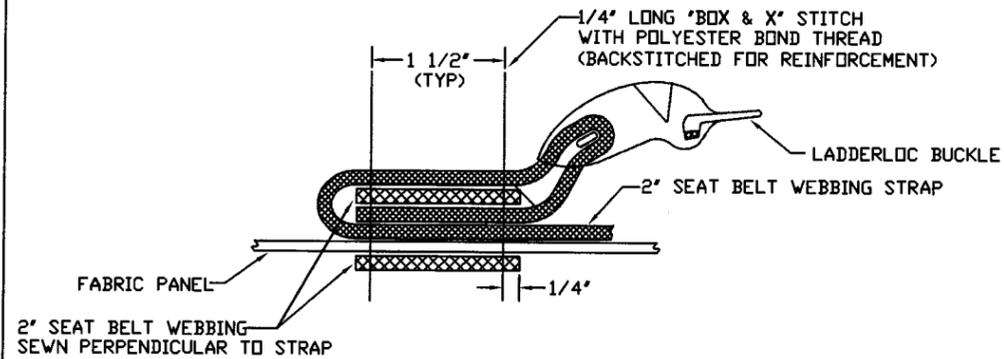
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DATE: 03/16/09 DOCUMENT NO: F12_2001_3 REV: 2



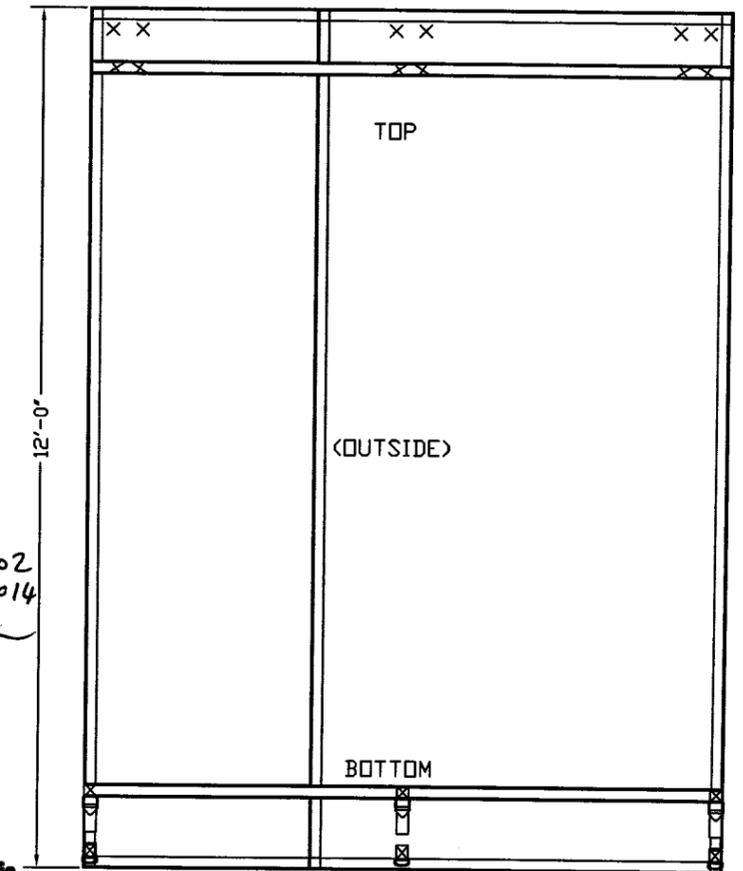
PLAN VIEW



ATTACHMENT OF LADDERLOC LOOP DETAIL TO SCREEN AT THE BOTTOM OF SCREEN



ATTACHMENT OF TIE-DOWN LADDERLOC DETAIL TO SCREEN AT THE BOTTOM OF SCREEN

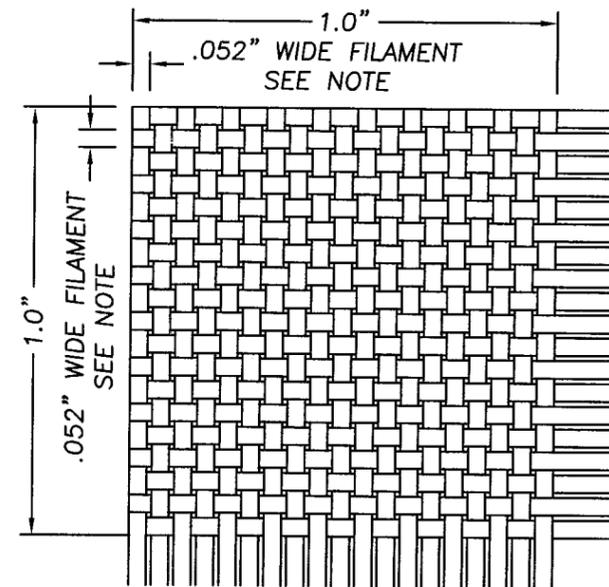


PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 09-0427.02
Expiration Date 08/29/2014
By *Heather A. Miller*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 06-1214.03
Expiration Date 08/29/2009
By *Heather A. Miller*
Miami Dade Product Control Division

HURRICANE SCREEN ELEVATION

(OUTSIDE STITCHING DETAILS. THE SCREEN IS MANUFACTURED IN (3) STYLES) VERTICAL SEAM, HORIZONTAL SEAM, & NON-SEAMED (OVERLAPPED FABRIC PANELS)



1 SQ. INCH OF SCREEN WEAVE PATTERN

NOTE:
THERE ARE (19) .052" WIDE FILAMENTS, BOTH HORIZONTALLY & VERTICALLY IN A SQUARE INCH OF FABRIC. EACH FILAMENT IS MADE UP OF (3) .013" WIDE SUB FILAMENTS.

FORCE 12 - MATERIAL SPECIFICATIONS OF SCREEN

FIBER CONTENT	100% POLYPROPYLENE
COLOR	BLACK OR ROYAL BLUE
FINISH	TENTERED & CALENDERED
CONSTRUCTION (APPROXIMATE)	WARP: 60 FILL: 50
WEAVE	3/4" BASKET WEAVE
THICKNESS	20 MILS
WEIGHT (ASTM D-3776-85)	7.6 OZ/YD ²
ABRASION RESISTANCE (ASTM D-3884)	WARP: 190 LBS FILL: 250 LBS
TENSILE STRENGTH (ASTM D-1682, GRAB METHOD)	WARP: 445 LBS FILL: 375 LBS
TEAR STRENGTH (ASTM D-2261, TRAP METHOD)	WARP: 185 LBS FILL: 190 LBS
BURST STRENGTH (ASTM D-3786 MULLEN)	720 LBS/IN ²
PUNCTURE STRENGTH (ASTM D-3787, MODIFIED)	165 LBS
U.V. RESISTANCE (ASTM G-53, % RETAINED AT 5,000 HOURS)	90%
AIR FLOW	230 CFM

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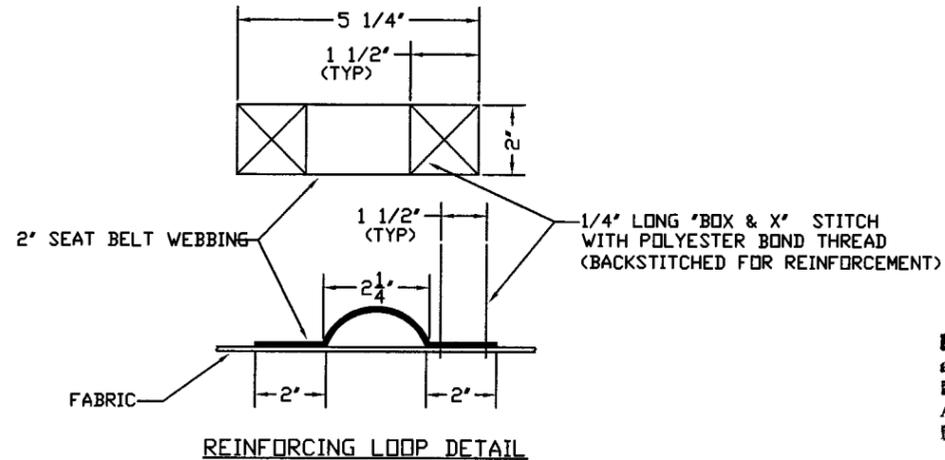
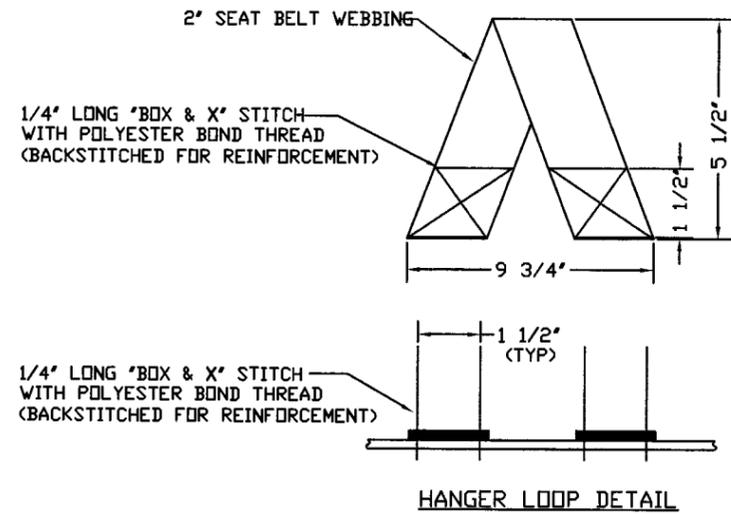
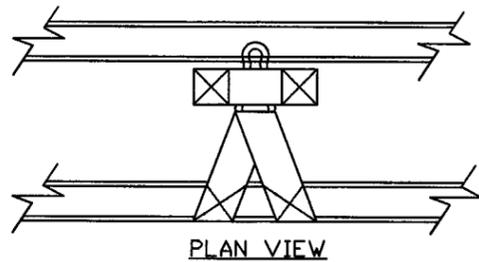
TITLE: FORCE 12
FABRIC SCREEN DETAILS

CLIENT: VARIES
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS SHEET 9 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_2 REV: 2

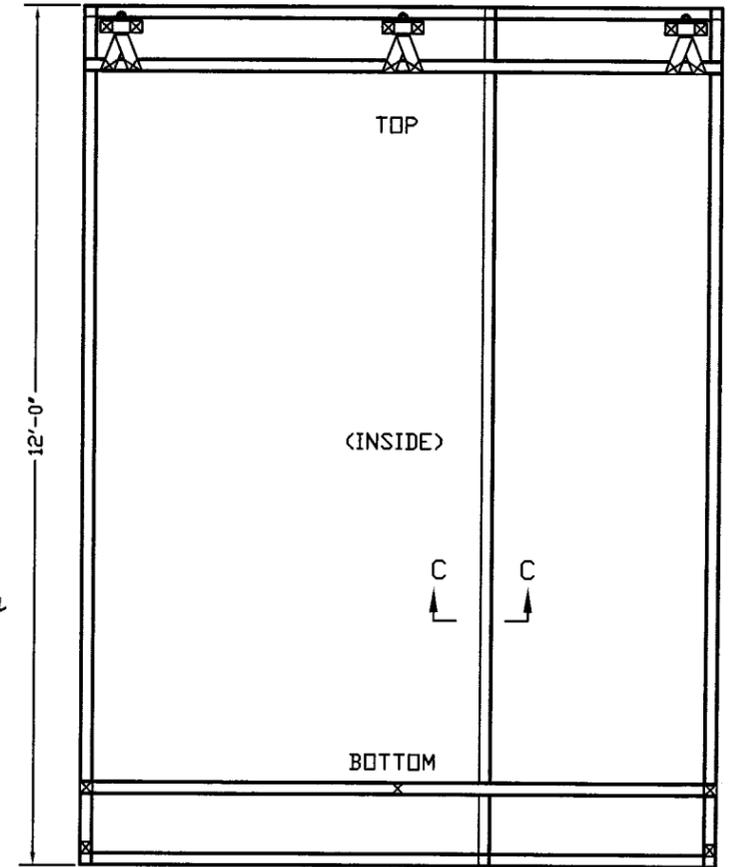
JAMES R. BAILEY, Ph.D., P.E.
PLATINUM RISK CONSULTING LLC
4931 CHAPPEL HILL DR.
MISSOURI CITY, TX 77459
PHONE: 281-403-2825
FL COA NO. 28156
FL P.E. NO. 67773

James R. Bailey 3/16/09



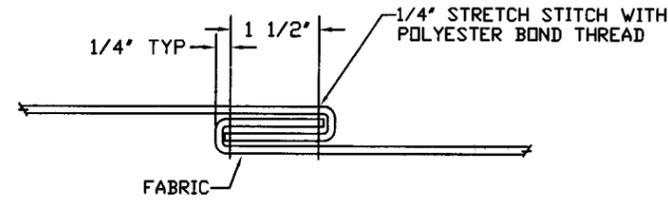
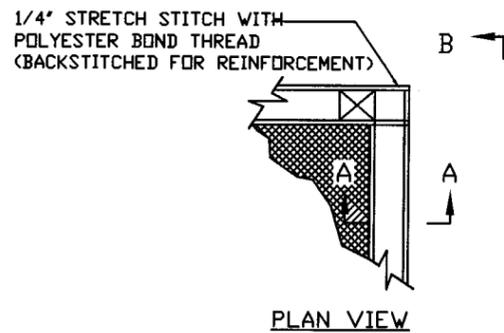
SCREEN ATTACHMENT LOOP DETAIL AT THE TOP OF SCREEN

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 09-0427.02
 Expiration Date 08/29/2014
 By *Heather A. Nelson*
 Miami Dade Product Control
 Division



HURRICANE SCREEN ELEVATION

(INSIDE STITCHING DETAILS, THE SCREEN IS MANUFACTURED IN (3) STYLES; VERTICAL SEAM, HORIZONTAL SEAM, & NON-SEALED OVERLAPPED FABRIC PANELS)

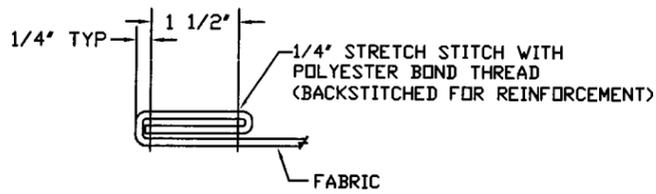


SECTION C
 (HOOK SEAM DETAIL - VERTICAL OR HORIZONTAL)

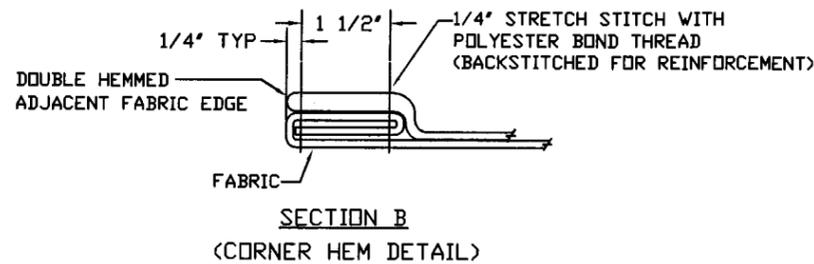
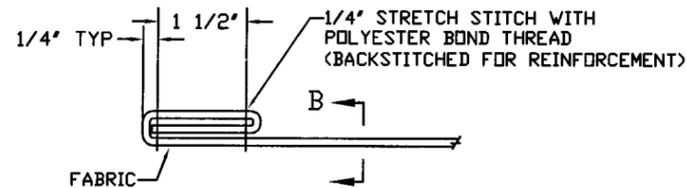
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 06-1214.03
 Expiration Date 08/29/2009
 By *Heather A. Nelson*
 Miami Dade Product Control
 Division

JAMES R. BAILEY, Ph.D., P.E.
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 4931 CHAPPEL HILL DR.
 MISSOURI CITY, TX 77459
 PHONE: 281-403-2825
 FL COA NO. 28156
 FL P.E. NO. 67773

James R. Bailey
 3/29/09



SECTION A
 (DOUBLE HEM)
 TYPICAL ON ALL PANEL EDGES



REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

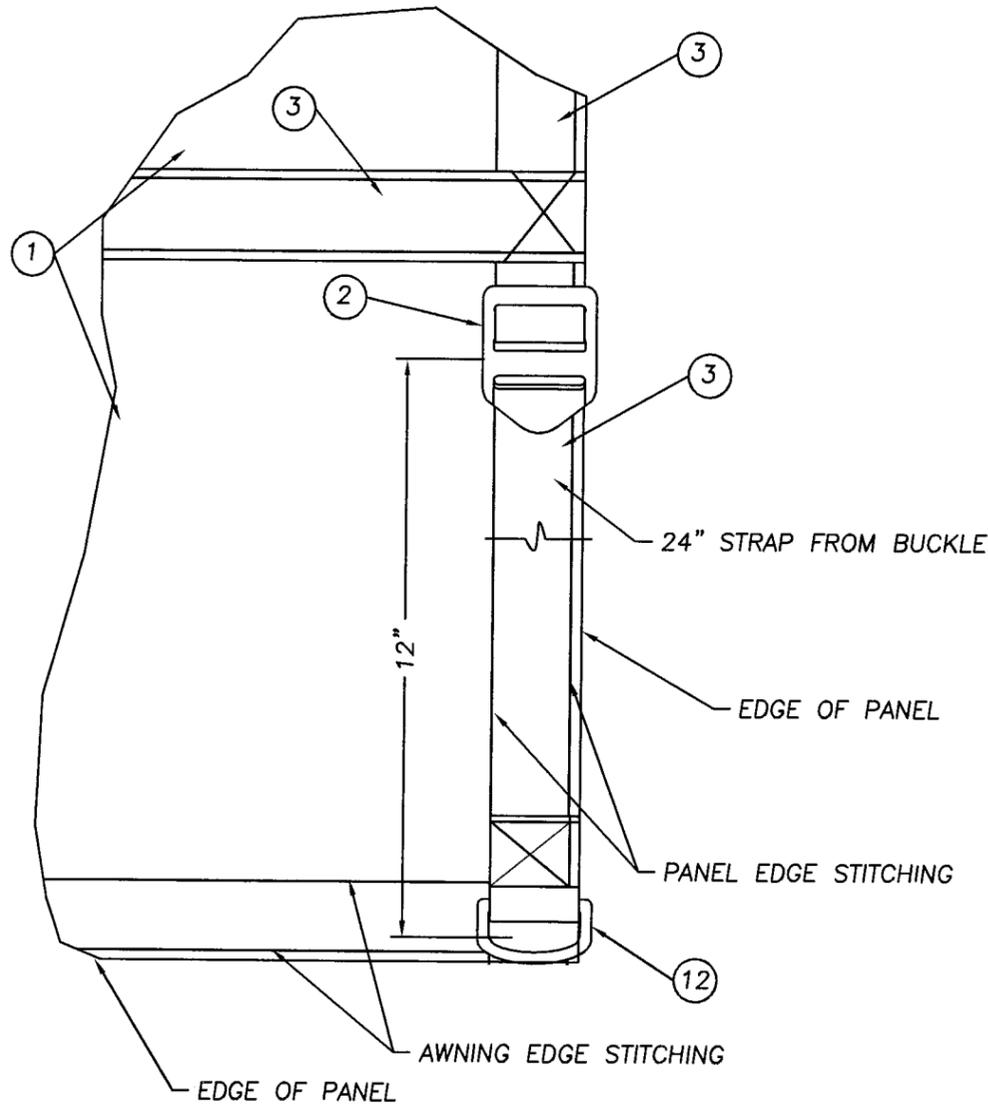
HE Hendee Enterprises, Inc.
 The Innovative Solutions Company

P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054
 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12
 FABRIC SCREEN DETAILS

CLIENT: VARIES
 LOCATION: VARIES

DRAWN BY: AD SCALE: NTS SHEET 10 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_2 REV: 2



STITCHING DETAIL

DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1232	1410
B	941	675	1856	1500
C	1042	1183	1856	1500
D	1042	1183	1232	1410

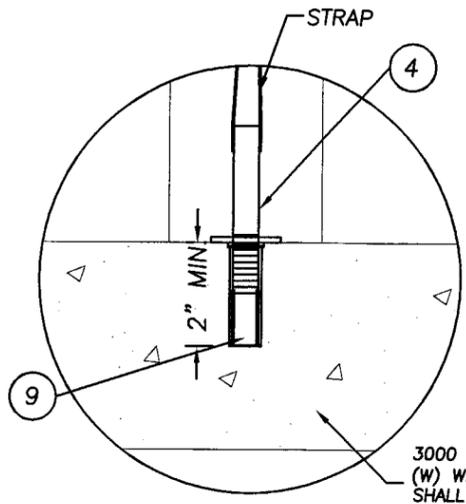
Rt: Reaction tensile force
 Rs: Reaction shear force
 Ft: Fastener allowable tensile load
 Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a \pm 60 PSF load w/ 22.5" strap spacing or a \pm 55 PSF load w/ 24.0" strap spacing, with reaction acting either @ 22.5" O.C. or @ 24.0" O.C.

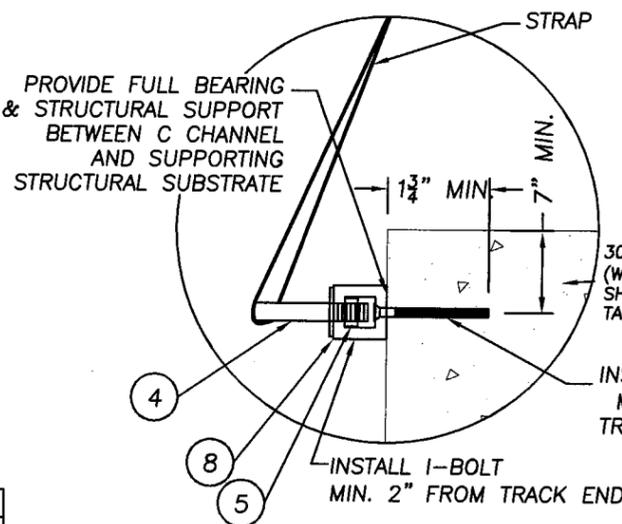
Fastener (Ft or Fs) is minimum allowable value for a \pm 60 PSF load w/ 22.5" strap spacing or a \pm 55 PSF load w/ 24.0" strap spacing; values for Drop-in Anchors based on one fastener either @ 22.5" O.C. or @ 24.0" O.C.; values for Tapcons based on 4 fasteners @ 6" O.C.; values for #14 Wood Screw based on 4 fasteners @ 6" O.C. (no offset) or 5 fasteners @ 5" O.C. (offset)

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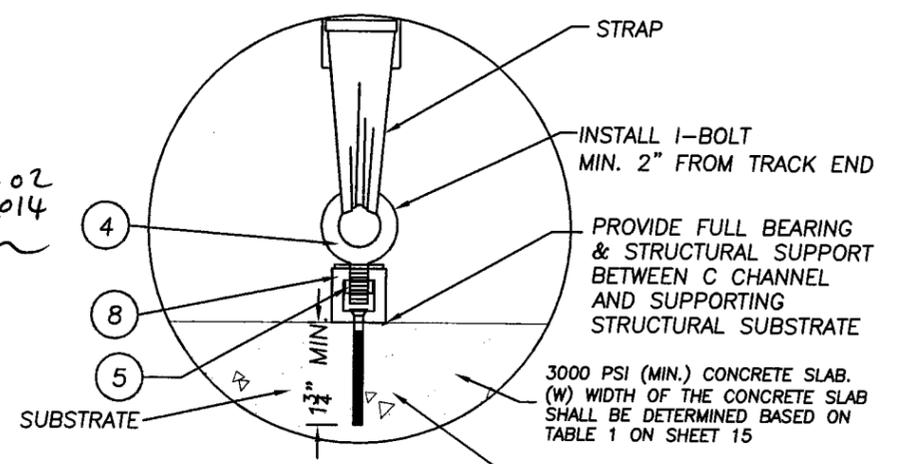
James R. Bailey



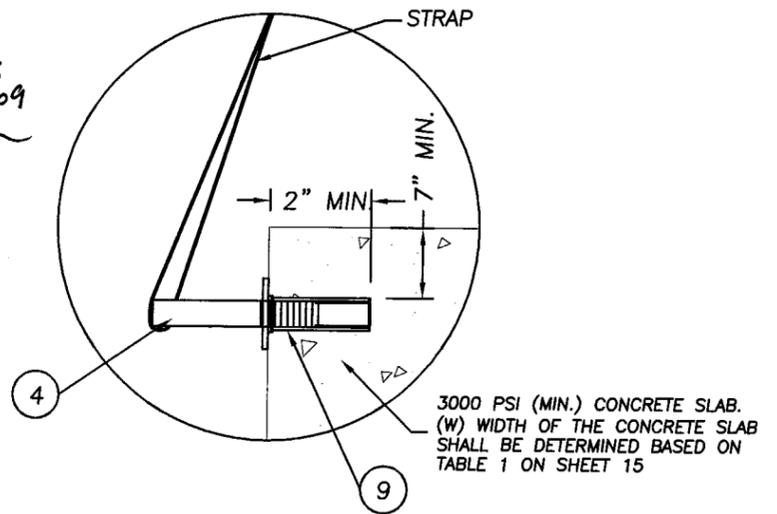
DETAIL "A"
 SCREEN TO CONCRETE @ BOTTOM
 DROP-IN ANCHOR IS INSTALLED VERTICALLY
 (USE MIN. EDGE DISTANCE)



DETAIL "C"
 SCREEN TO TRACK @ BOTTOM
 TAPCON FASTENER IS INSTALLED HORIZONTALLY
 (USE MIN. EDGE DISTANCE)



DETAIL "B"
 SCREEN TO TRACK @ BOTTOM TRACK END
 TAPCON FASTENER IS INSTALLED VERTICALLY
 (USE MIN. EDGE DISTANCE)



DETAIL "D"
 SCREEN TO CONCRETE @ BOTTOM
 DROP-IN ANCHOR IS INSTALLED HORIZONTALLY
 (USE MIN. EDGE DISTANCE)

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 09-0427.02
 Expiration Date 08/29/2014
 By *Helmy A. Helmy*
 Miami Dade Product Control
 Division

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 06-1214.03
 Expiration Date 08/29/2009
 By *Helmy A. Helmy*
 Miami Dade Product Control
 Division

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

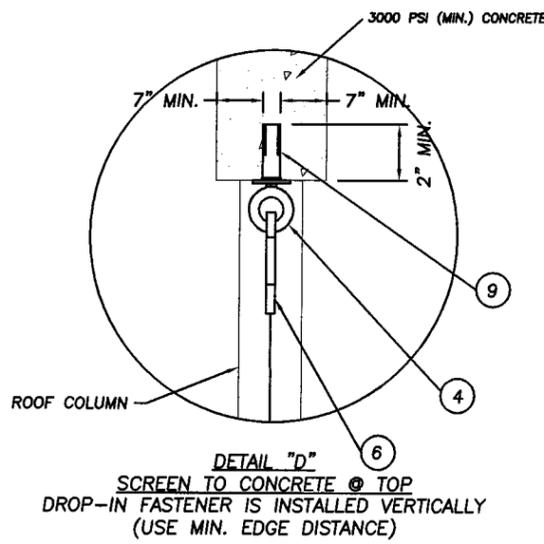
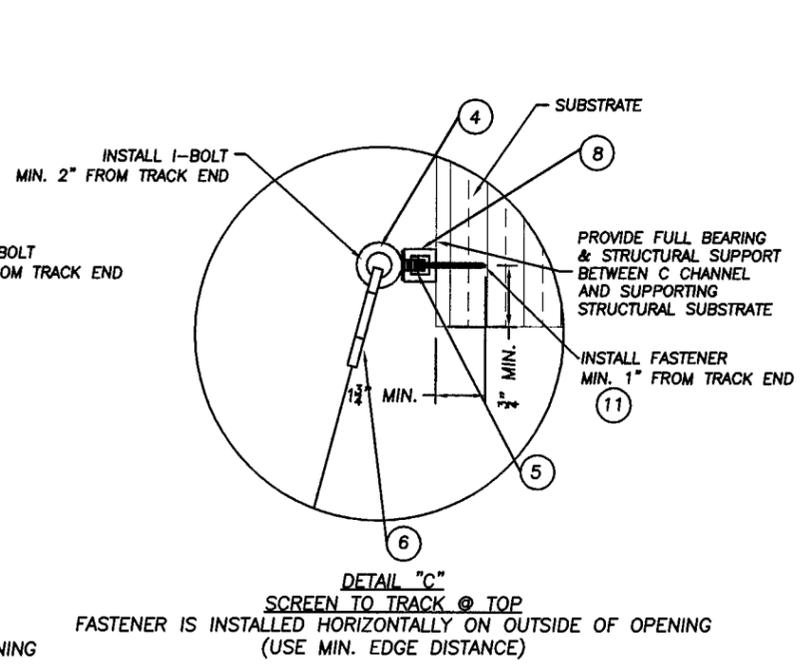
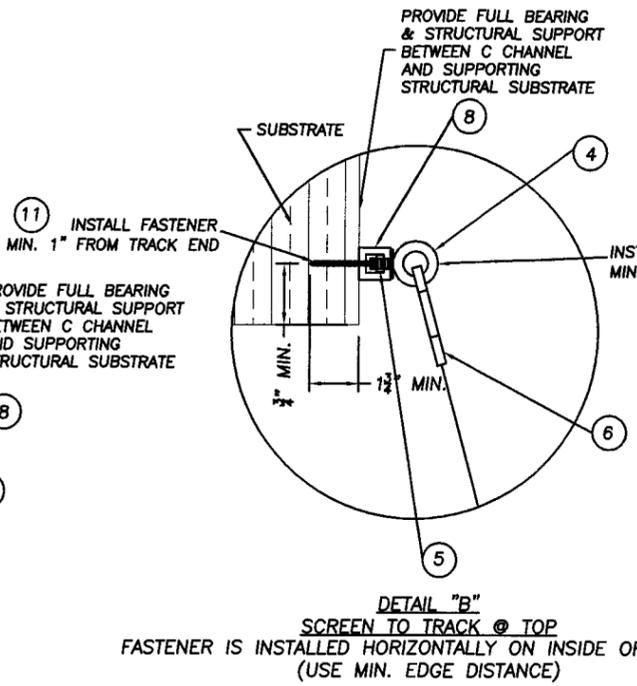
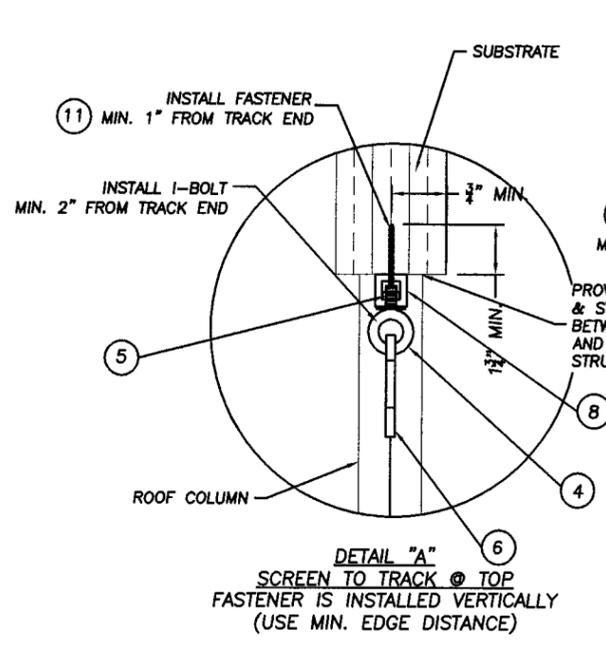
HE Hendee Enterprises, Inc.
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 (713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12
 ACCEPTABLE BOTTOM ATTACHMENTS

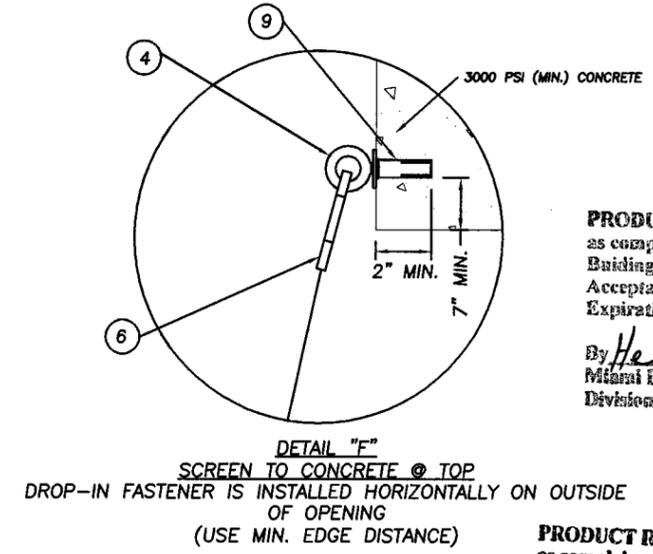
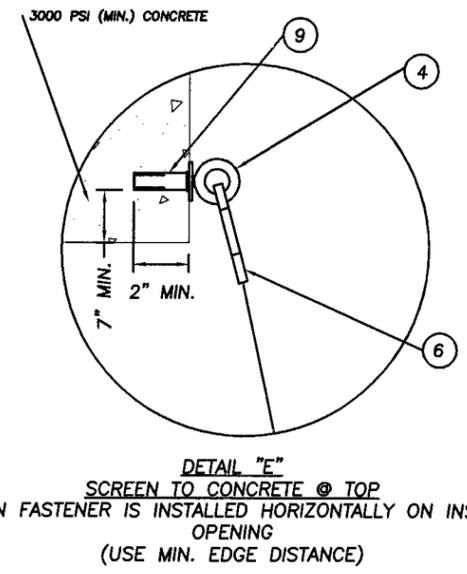
CLIENT: VARIES
 LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 11 OF 15
 DATE: 03/16/09 DOCUMENT NO: F12_2001_8 REV: 2

3/24/09



FOR 1/4" TAPCON (10) USE 1 3/4" MIN. EMBEDMENT.



PRODUCT RENEWED
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Acceptance No 09-0427.02
Expiration Date 08/29/2014
By *Helmut A. Mader*
Miami Dade Product Control Division

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 06-1214.03
Expiration Date 08/29/2009
By *Helmut A. Mader*
Miami Dade Product Control Division

DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1768	1080
B	1042	1183	2210	1350
C	1042	1183	2210	1350
D	941	675	1232	1410
E	1042	1183	1232	1410
F	1042	1183	1232	1410

Rt: Reaction tensile force
Rs: Reaction shear force
Ft: Fastener allowable tensile load
Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a ± 60 PSF load w/ 22.5" strap spacing or a ± 55 PSF load w/ 24.0" strap spacing, with reaction acting either @ 22.5" O.C. or @ 24.0" O.C.

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James R. Bailey

3/24/09

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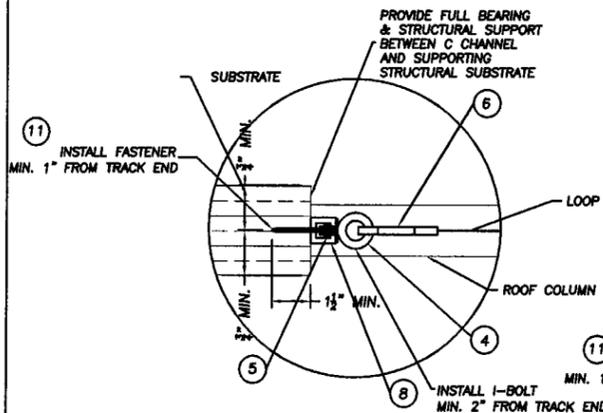
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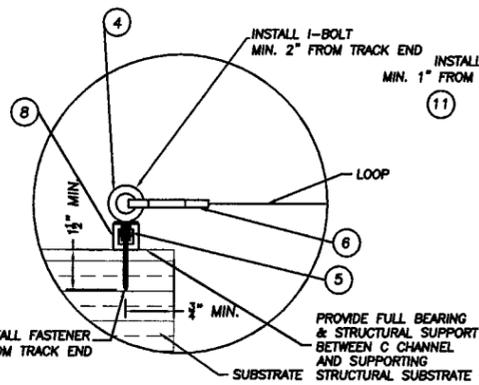
TITLE: FORCE 12
ACCEPTABLE TOP ATTACHMENTS

CLIENT: VARIES
LOCATION: VARIES

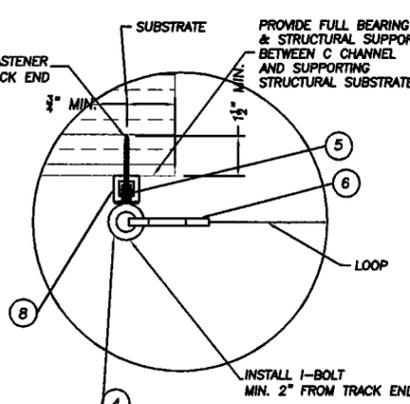
DRAWN BY: AD SCALE: NTS=1'-0" SHEET 12 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_8 REV: 2



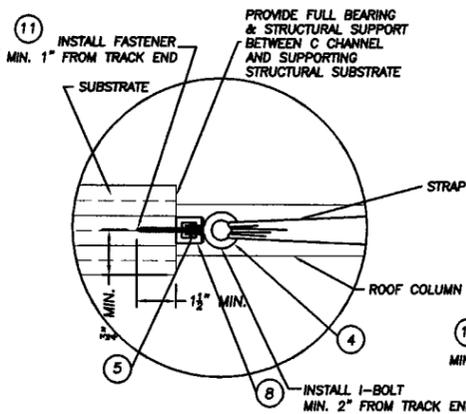
DETAIL "A"
SCREEN TO TRACK @ SIDE [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



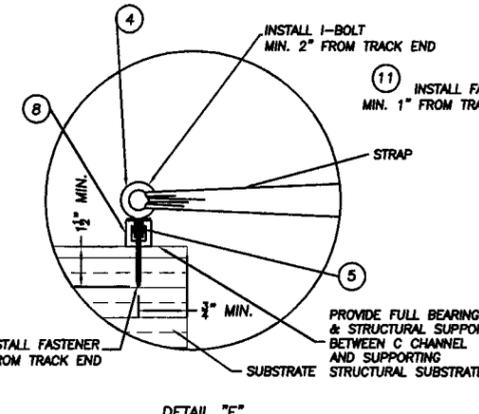
DETAIL "B"
SCREEN TO TRACK @ TOP [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING
(USE MIN. EDGE DISTANCE)



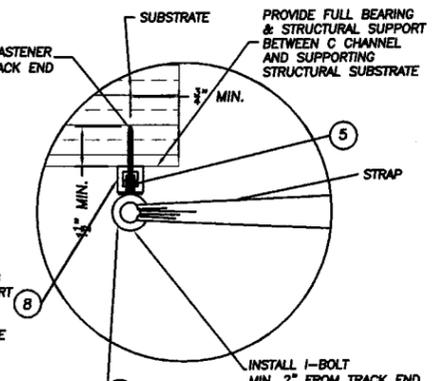
DETAIL "C"
SCREEN TO TRACK @ TOP [LOOP END]
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING
(USE MIN. EDGE DISTANCE)



DETAIL "D"
SCREEN TO TRACK @ SIDE [STRAP END]
FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



DETAIL "E"
SCREEN TO TRACK @ TOP [STRAP END]
FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING
(USE MIN. EDGE DISTANCE)

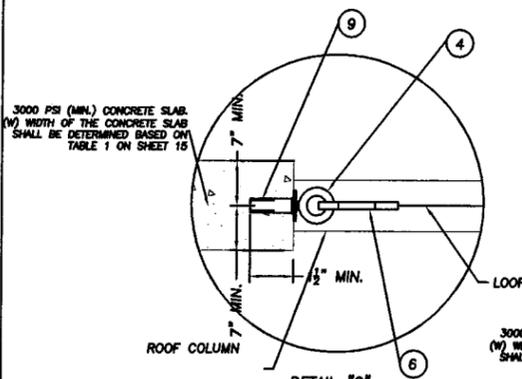


DETAIL "F"
SCREEN TO TRACK @ TOP [STRAP END]
FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING
(USE MIN. EDGE DISTANCE)

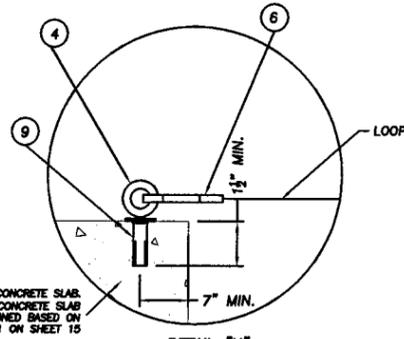
FOR 1/4" TAPCON (10) USE 1 3/4" MIN. EMBEDMENT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 06-1214.03
Expiration Date 08/29/2009
By *Helmut A. Weber*
Miami Dade Product Control
Division

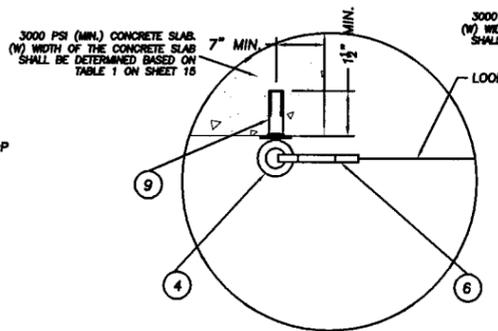
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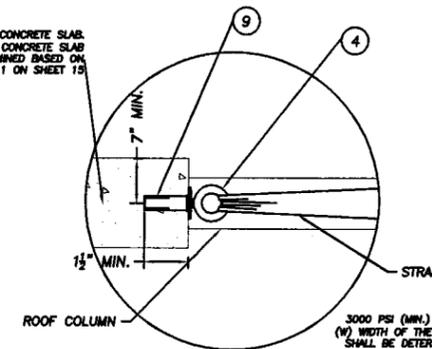
DETAIL "G"
SCREEN TO CONCRETE @ TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
(USE MIN. EDGE DISTANCE)



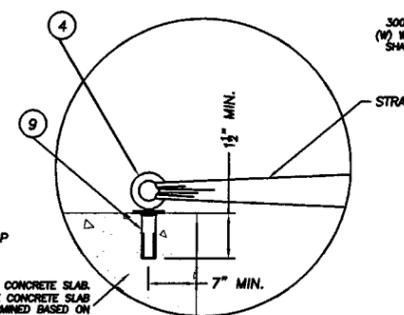
DETAIL "H"
SCREEN TO CONCRETE @ TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING
(USE MIN. EDGE DISTANCE)



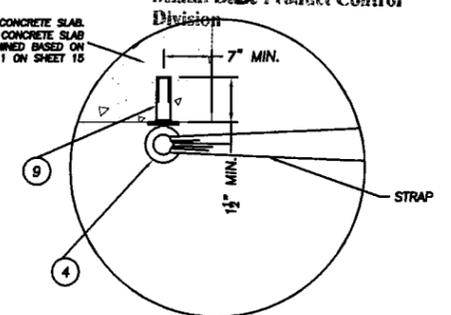
DETAIL "I"
SCREEN TO CONCRETE @ TOP [LOOP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)



DETAIL "J"
SCREEN TO CONCRETE @ TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY
(USE 2" MIN. EDGE DISTANCE)



DETAIL "K"
SCREEN TO CONCRETE @ TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON INSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)



DETAIL "L"
SCREEN TO CONCRETE @ TOP [STRAP END]
DROP-IN FASTENER IS INSTALLED HORIZONTALLY ON OUTSIDE OF OPENING
(USE 2" MIN. EDGE DISTANCE)

DETAIL	Rt (lbs)	Rs (lbs)	Ft (lbs)	Fs (lbs)
A	941	675	1768	1080
B	675	941	1768	1080
C	675	941	1768	1080
D	941	675	1768	1080
E	675	941	1768	1080
F	675	941	1768	1080
G	941	675	1232	1410
H	675	941	1232	1410
I	675	941	1232	1410
J	941	675	1232	1410
K	675	941	1232	1410
L	675	941	1232	1410

Rt: Reaction tensile force
Rs: Reaction shear force
Ft: Fastener allowable tensile load
Fs: Fastener allowable shear load

Reaction (Rt or Rs) is maximum absolute value for a ± 60 PSF load w/ 22.5" strap spacing or a ± 55 PSF load w/ 24.0" strap spacing, with reaction acting either @ 22.5" O.C. or @ 24.0" O.C.

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REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

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The Innovative Solutions Company
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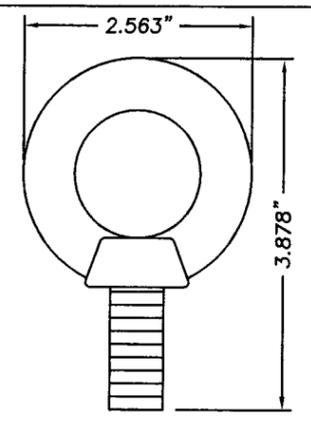
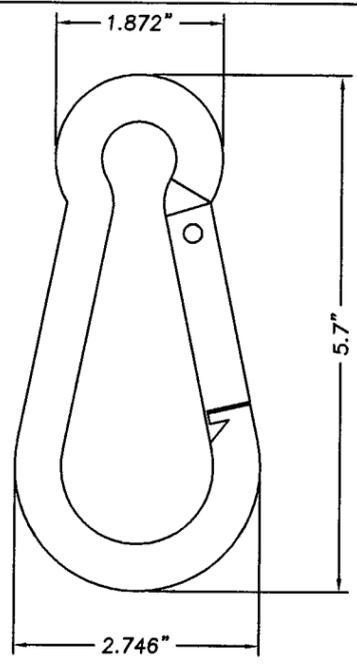
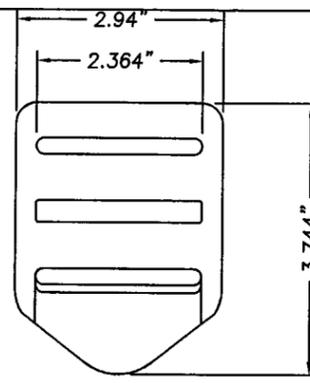
TITLE: FORCE 12
ACCEPTABLE SIDE TO SIDE ATTACHMENTS

CLIENT: VARIES
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 13 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_8 REV: 2

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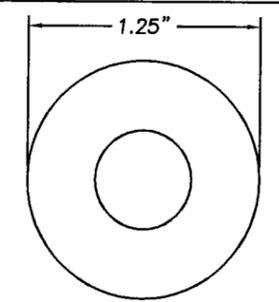
James R. Bailey
3/24/09



② .22" THK. ACETAL HOSTAFORM C
TIE DOWN LADDERLOC ACETAL HOSTAFORM C

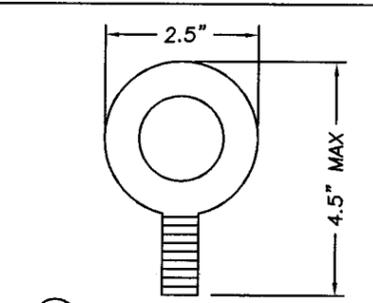
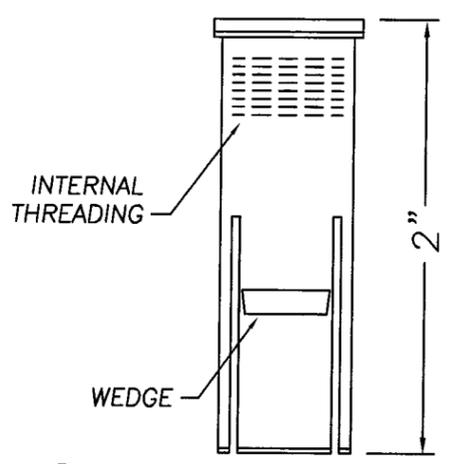
④ ϕ 1/2" SHOULDERED EYEBOLT
STAINLESS STEEL 1/2" THK. BAR

Item	DESCRIPTION	Material
1	HURRICANE SCREEN (SEE SCREEN CONSTRUCTION SHT. 1)	POLYPROP.
2	TIE DOWN LADDERLOC (ITW NEXUS, ACETAL HOSTAFORM C)	ACETAL
3	STRAP (SEE SHEET 8)	
4	1/2" EYEBOLT (CHICAGO#5, QUALITY MARINE HARDWARE, OR EQUAL)	S STEEL
5	1/2" UNI-STRUT NUT (STAINLESS STEEL, W/OUT SPRING)	S STEEL
6	3/4" SPRING SNAP (CAMMBELL #B765068, SUNCOR, OR EQUAL)	S STEEL
7	1/2" FLAT WASHER (.108" THK. STEEL)	STEEL
8	EXTRUDED ALUM. SCREEN TRACK (.325" WALL, 6063-T6)	ALUM.
9	1/2" DROP-IN ANCHOR (BY POWERS RAWL OR EQUAL)	S STEEL
10	TAPCON 1/4" x 3 1/4" LG. (ELCO) W/ 1 3/4" (MIN. EMBEDMENT)	STEEL
11	#14 WOOD SCREW INTO WOOD WITH 1 1/2" MIN. EMBEDMENT	S STEEL
12	LADDERLOC LOOP (ITW NEXUS, ACETAL HOSTAFORM C)	ACETAL
13	LEFT BLANK	-
14	1/2" EYEBOLT (CHICAGO #7, QUALITY MARINE HARDWARE, OR EQUAL)	S STEEL
15	1/2" FLAT WASHER (.108" THK. STEEL)	STEEL



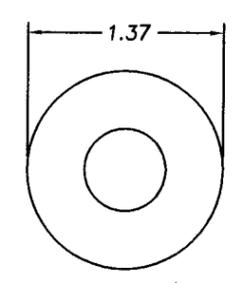
⑥ 3/4" SPRING SNAP
.434" THK. STAINLESS STEEL BAR

⑦ 1/2" FLAT WASHER
.108" THK. STEEL

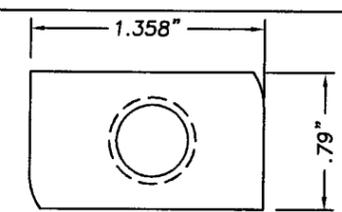


⑨ ϕ 1/2" DROP-IN ANCHOR
STAINLESS STEEL

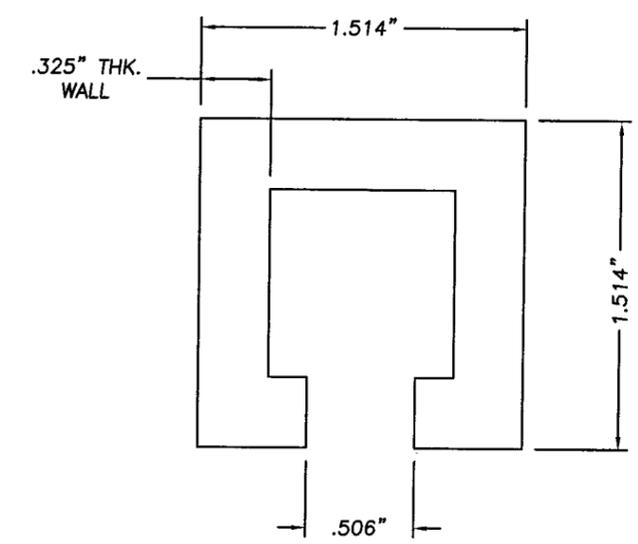
⑭ 1/2" EYEBOLT
STAINLESS STEEL 1/2" THK. BAR



⑮ 1/2" FLAT WASHER
.108" THK. STEEL

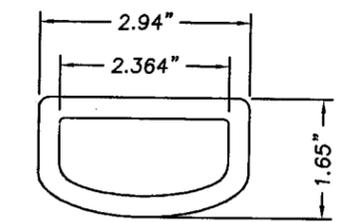


⑤ 1/2" UNI-STRUT NUT W/OUT SPRING
.364" THK. STAINLESS STEEL



⑧ EXTRUDED ALUMINUM SCREEN TRACK
.325" THK. 6063-T6 ALUMINUM

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 09-0427-02
Expiration Date 08/29/2014
By *Helmy A. M...*
Miami Dade Product Control
Division



⑫ LADDERLOC LOOP
.161" THK. ACETAL HOSTAFORM C

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 06-1214-03
Expiration Date 08/29/2009
By *Helmy A. M...*
Miami Dade Product Control
Division

⑬

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James R. Bailey
3/29/09
PER NCTL-210-2310-1,2,3

REVISIONS			
BY:	LTR.	DATE	DESCRIPTION

HE Hendee Enterprises, Inc.
The Innovative Solutions Company
P.O. Box 4289, Houston, TX 77210-4289 9350 South Point Dr., Houston, TX 77054
(713) 796-2322 Fax (713) 796-0494 (800) 231-7275 (Nat'l) (800) 323-3641 (Texas)

TITLE: FORCE 12
ACCEPTABLE SCREEN MOUNTING HARDWARE

CLIENT: VARIES
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 14 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_9 REV: 2

CONCRETE SLAB/FOUNDATION DIMENSIONS

TABLE 1	WIND PRESSURE (psf)	SLAB THICKNESS (in)	SLAB WIDTH IN FT.								
			SCREEN HEIGHT (ft)								
			12			10			8		
	CASE 1	CASE 2	CASE 3	CASE 1	CASE 2	CASE 3	CASE 1	CASE 2	CASE 3		
60 ANCHORS 22 1/2" O.C.	4	36.6	43.6	28.8	31.2	37.6	24.2	25.8	31.5	19.6	
	5	29.2	34.9	23.0	25.0	30.1	19.3	20.6	25.2	15.7	
	6	24.4	29.1	19.2	20.8	25.1	16.1	17.2	21.0	13.0	
	7	20.9	24.9	16.4	19.7	21.5	13.8	14.7	18.0	11.2	
55 ANCHORS 24" O.C.	8	18.3	21.8	14.4	15.6	16.1	12.1	12.9	15.8	9.8	
	4	33.9	40.7	26.5	29.0	35.1	22.3	24.0	29.4	18.0	
	5	27.1	32.5	21.2	23.2	28.0	17.8	19.2	23.5	14.4	
	6	22.6	27.1	17.6	19.3	23.4	14.8	16.0	19.6	12.0	
50 ANCHORS 24" O.C.	7	19.4	23.2	15.1	16.6	20.0	12.7	13.7	16.8	10.3	
	8	17.0	20.3	13.2	14.5	17.5	11.1	12.0	14.7	9.0	
	4	31.2	37.7	24.1	26.7	32.5	20.3	22.1	27.3	16.4	
	5	25.0	30.2	19.3	21.4	26.0	16.2	17.7	21.8	13.1	
40 ANCHORS 24" O.C.	6	20.8	25.1	16.1	17.8	21.7	13.6	14.7	18.2	11.0	
	7	17.9	21.5	13.8	15.3	18.6	11.6	12.6	15.6	9.4	
	8	15.6	18.8	12.1	13.4	16.2	10.2	11.1	13.6	8.2	
	4	35.8	31.6	19.5	27.1	27.3	16.4	18.3	22.9	13.3	
ANCHORS 24" O.C.	5	20.6	25.3	15.6	17.6	21.8	13.1	14.6	18.3	10.6	
	6	17.2	21.1	13.0	14.7	18.2	10.9	12.2	15.3	8.8	
	7	14.7	18.1	11.1	12.6	15.6	9.4	10.5	13.1	7.6	
	8	12.9	15.8	9.7	11.1	13.7	8.2	9.2	11.5	6.6	

TABLE 1 NOTES:

- WIDTH IS MEASURED PERPENDICULAR TO SCREEN.
- THE BUILDING FOUNDATION IS ASSUMED TO PROVIDE SUFFICIENT LATERAL SUPPORT TO PREVENT SLIDING TOWARDS THE BUILDING. IF THE SLAB DOES NOT PROVIDE LATERAL STABILITY, ASSUME CASE 2 FOR ALL INSTALLATIONS.
- CASE 1 - VERTICAL INSTALLATION
CASE 2 - VERTICAL INSTALLATION PITCHED OUTWARD.
CASE 3 - VERTICAL INSTALLATION INWARD (SEE DETAIL 1/4).
- IF SUFFICIENT LATERAL SUPPORT IS PRESENT TO RESTRAIN MOVEMENT OF THE SLAB AWAY FROM THE EXTERIOR WALL (SEE SHEET 2 AND 4), THEN THE REQUIRED SLAB WIDTH IN TABLE 1 MAY BE MULTIPLIED BY A FACTOR OF 0.55 REDUCTION

PRODUCT RENEWED
as complying with the Florida
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Acceptance No 09-0427.02
Expiration Date 08/29/2014
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as complying with the Florida
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Acceptance No 06-1214.03
Expiration Date 08/29/2009
By *Helmut A. Miller*
Miami Dade Product Control
Division

FASTENER NOTES:

FASTENERS AT SILL:

- FASTENERS ARE LOCATED PER STRAP LOCATIONS, 24" O.C. FOR WIND PRESSURES <55 PSF, AND 22 1/2" O.C. FOR PRESSURES FROM 55 TO 60 PSF.
- FASTENER TYPES:
CONCRETE - POWERS 1/2" DIA. DROP-IN ANCHOR.
(2" MIN. EMBEDMENT) OR EQUAL.

FASTENERS AT HEAD/JAMB

- STRAPS ARE ATTACHED TO EYE BOLTS, WHICH ARE INSTALLED IN THE C-TRACK 24" O.C. FOR WIND PRESSURES <55 PSF, AND 22 1/2" FOR PRESSURES 55 TO 60 PSF.
- C-CHANNEL IS ANCHORED TO STRUCTURE AT HEAD FOR VERTICAL INSTALLATIONS AND AT BOTH JAMBS FOR HORIZONTAL INSTALLATIONS.
- FASTENER TYPES:
 - 1/4" DIA. ELCO TAPCON INTO 3000 PSI CONCRETE WITH 1 3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - 1/4" DIA. ELCO TAPCON INTO 3200 PSI CONCRETE WITH 1 3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - 1/4" DIA ELCO TAPCON INTO HOLLOW CMU BLOCK WITH 1 1/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.
 - #14 WOOD SCREW INTO WOOD WITH 1 1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE
- FASTENERS ARE INSTALLED 1" FROM END OF TRACK AND SPACED PER TABLE 2 BELOW.

SCREEN HEIGHT (ft)	FASTENER TYPE	WIND PRESSURE (psf)			
		60	55	50	40
12	A	6	6	7	9
	B	6	6	7	9
	C	4	4	4	6
	D	6	6	7	9
10	A	7	7	8	10
	B	7	7	8	10
	C	4	4	5	7
	D	7	7	8	10
8	A	9	9	10	12
	B	9	9	10	12
	C	6	6	7	10
	D	9	9	10	12

SCREEN OFFSET AT BASE

HEIGHT	OFFSET DISTANCE (in)
6'-0"	1'-10"
8'-0"	2'-8"
10'-0"	3'-10"
12'-0"	4'-10"

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James R. Bailey 3/24/09

REVISIONS		
BY:	LTR.	DATE



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TITLE: FORCE 12
CHARTS AND NOTES

CLIENT: VARIES
LOCATION: VARIES

DRAWN BY: AD SCALE: NTS=1'-0" SHEET 15 OF 15
DATE: 03/16/09 DOCUMENT NO: F12_2001_12 REV: 2