



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

NOTICE OF ACCEPTANCE (NOA)

Hurricane Fabric, LLC
1505 Poinsettia Drive Suite H-2&3
Delray Beach, Florida 33444

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: "Astro Guard " Flexible Wind Abatement System

APPROVAL DOCUMENT: Drawing No. 12-HFC-04, titled " Astro Guard Wind Abatement System ", sheets 1 through 11 Of 11, prepared by Engineering Express, dated July 16, 2012, last revision dated March 22, 2013, signed and sealed by Frank L. Bennardo, P.E., 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 panel shall bear a permanent label with the manufacturer's name or logo, Delray Beach, FL 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 # 10-0607.02 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



Helmy A. Makar
04/11/2013

NOA No. 12-1004.02
Expiration Date: 10/20/2015
Approval Date: 04/11/2013
Page 1

Hurricane Fabric, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0607.02

A. DRAWINGS

1. *Drawing No. 09-0408, titled " Astro Guard Wind Abatement System ", sheets 1 and 2 of 2, prepared by MEA Engineers, Inc., dated May 04, 2009, last revision #2 dated September 22, 2010, signed and sealed by John H. Kampmann Jr., P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Astro Guard Hurricane Fabric Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 08-541, dated January 13, 2009, signed and sealed by Jorge A. Causo, P.E.*

C. CALCULATIONS

1. *Comparative Analysis and Anchor calculations dated January 8, 2009, 10 pages, prepared by MEA Engineering, Inc., signed and sealed by John H. Kampmann Jr., P.E.*
2. *Comparative Analysis and Anchor calculations dated September 11, 2010, 8 pages, prepared by MEA Engineering, Inc., signed and sealed by John H. Kampmann Jr., P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Fabric specifications.*

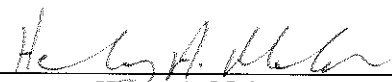
2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 12-HFC-04, titled " Astro Guard Wind Abatement System ", sheets 1 through 11 of 11, prepared by Engineering Express, dated July 16, 2012, last revision dated March 22, 2013, signed and sealed by Frank L. Bennardo, P.E., on March 25, 2013.*

B. TESTS

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of Astro Guard Hurricane Fabric Flexible Hurricane Wind Abatement System, prepared by Fenestration Testing Laboratory, Inc., Report No. 10-541, LAB #6359, dated September 11, 2012, signed and sealed by Marlin D. Brinson, P.E.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1004.02
Expiration Date: 10/20/2015
Approval Date: 04/11/2013

Hurricane Fabric, LLC

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. *Test report on Large Missile Impact Test of Aluminum Storm Bar, prepared by Fenestration Testing Laboratory, Inc., Report No. 12-541, LAB #6384, dated July 11, 2012, signed and sealed by Marlin D. Brinson, P.E.*

C. CALCULATIONS

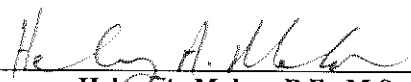
1. *Comparative Analysis and Anchor calculations dated September 26, 2012, 56 pages, prepared by Engineering Express, signed and sealed by Frank L. Bennardo, P.E.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *Fabric specifications.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-1004.02
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ASTRO GUARD WIND ABATEMENT SYSTEM

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201, 202 AND 203 TESTING STANDARDS.
2. NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7-10 AND CHAPTER 1609 OF THE 2010 FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. THIS SYSTEM IS INTENDED FOR USE ONLY DURING WIND STORM EVENTS. WHEN NOT IN USE, PRODUCT SHALL BE PROPERLY STORED AWAY FROM PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR OTHER WEATHERING CONDITIONS.
8. UNLESS OTHERWISE NOTED HEREIN, ALL SCREWS SHALL BE 304 OR 316 STAINLESS STEEL OR CORROSION RESISTANT COATED SAE GR. 5 CARBON STEEL.
9. MAXIMUM PANEL SPAN: 18'-2"
10. MAXIMUM ALLOWABLE DESIGN PRESSURE: ±60 PSF
11. PANELS SHALL BE PERMANENTLY LABELED WITH A MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING:
HURRICANE FABRIC.COM LLC
PO BOX 50153
CLAYTON, MD 63105
TAS 201, 202, 203
MIAMI-DADE NOA NUMBER
12. HURRICANE FABRIC PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
13. DISSIMILAR MATERIALS SHALL BE INSULATED FROM TO PREVENT CORROSION AND ELECTROLYSIS AS NECESSARY IN ACCORDANCE WITH THE ABOVE REFERENCED BUILDING CODE.
14. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

RETENTION CLIP END CONNECTOR:

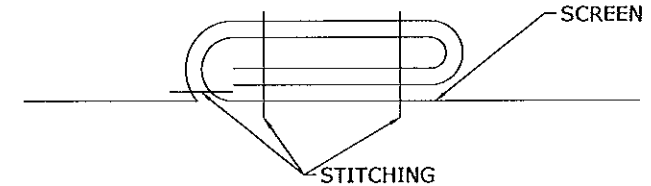
RHODIA ENGINEERING PLASTICS
POLYAMIDE 66

FABRIC SPECIFICATION:

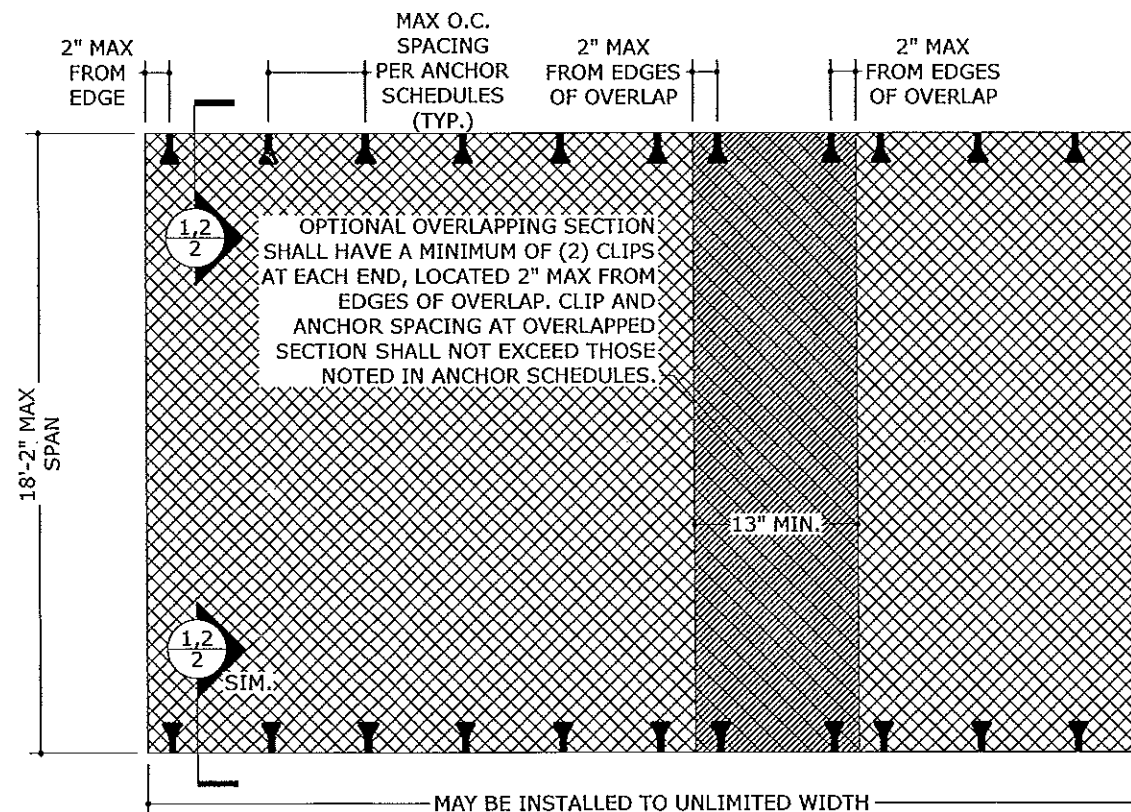
TYPE OF YARN: TEXTILE FABRIC
CONSTRUCTION: 25 X 25 WEAVE
THICKNESS: 1000 MICRONS ± 5%
FINISH: RESIN COATED
WEIGHT (ASTM D 3776): 10.83 OZ/YD²
TENSILE STRENGTH (GRAB METHOD, ASTM D 4632): WARP: 879 LBS, WEFT: 879 LBS
BURST STRENGTH (ASTM D 3786): 1500 PSI
ABRASION RESISTANCE (ASTM D 4886): 95% STRENGTH RETAINED

SEWING:

SEWING ONLY AT SPLICE (SEE SPLICE DETAIL). NO SEWING AT EDGES.



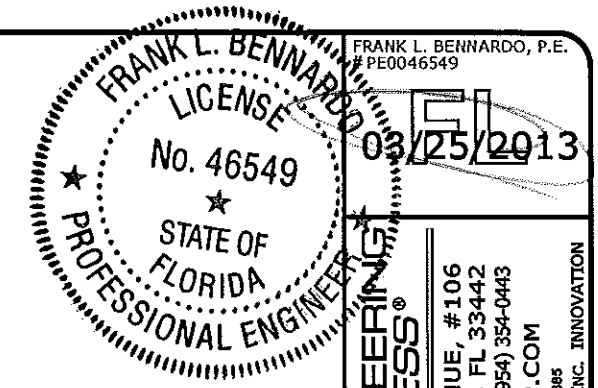
1 SPLICE DETAIL
1 N.T.S.



NOTE: PANELS CAN OPTIONALLY BE ANCHORED ON THREE OR FOUR SIDES. FOR FOUR SIDE ATTACHMENT, THE SPAN IS THE SHORT DIMENSION BETWEEN FASTENERS.

2 TYPICAL PANEL INSTALLTION
1 N.T.S. EXTERIOR ELEV

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1004.02
Expiration Date 10/20/2015
By *[Signature]*
Miami Dade Product Control



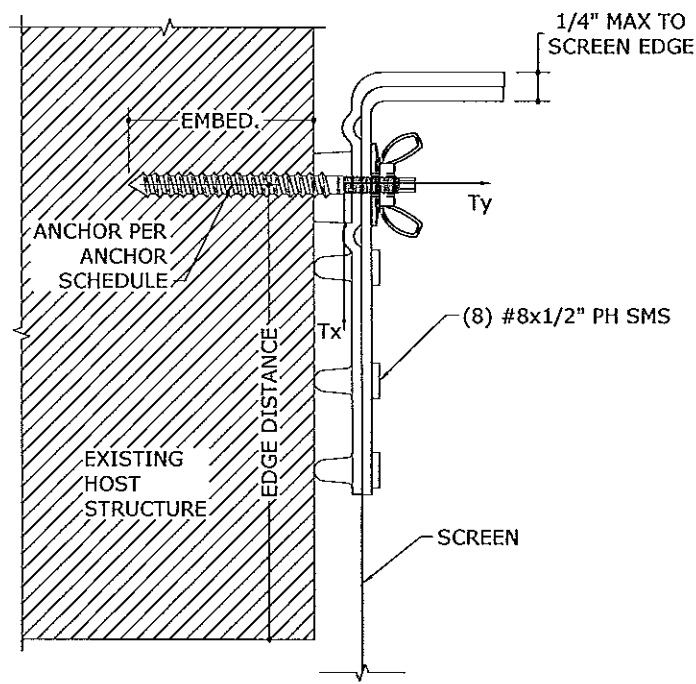
ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 FAX: (954) 354-0443
WWW.ENGEXP.COM
CERT OF AUTH #9885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC
1505 POINSETTA DR, SUITE H-3
DELRAY BEACH, FL 33444
WWW.HURRICANEFABRIC.COM
ASTRO GUARD
WIND ABATEMENT SYSTEM
MIAMI-DADE NOTICE OF ACCEPTANCE

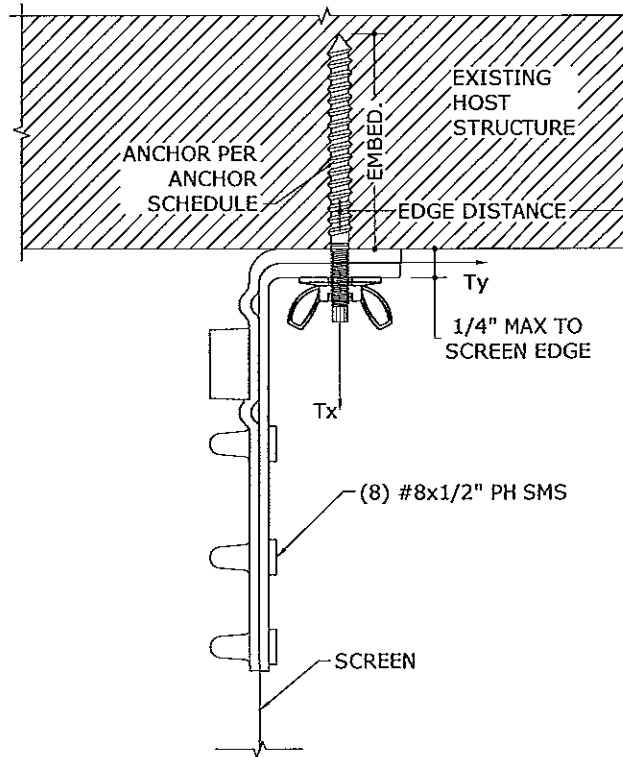
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REVIEWER COMMENT	KL	FLB	03/22/13

12-HFC-04
SCALE: -
PAGE DESCRIPTION: 02

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1 WALL MOUNT CONDITION
2 N.T.S. SECTION VIEW



2 INTERIOR MOUNT CONDITION
2 N.T.S. SECTION VIEW

MINIMUM SEPARATION FROM GLASS INCLUDING INSTALLATION SLACK

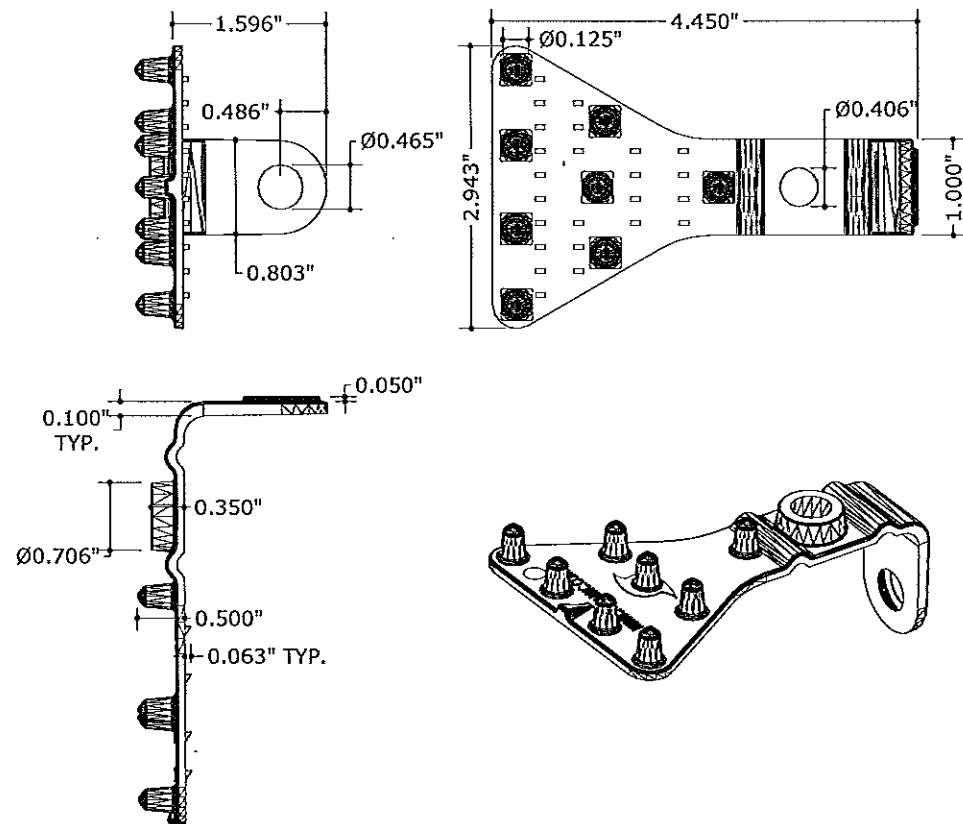
SPAN	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	6.4"	6.1"	5.7"	5.3"
6'-0"	10.2"	9.7"	9.1"	8.3"
8'-0"	14.5"	13.7"	12.8"	11.7"
10'-0"	19.2"	18.2"	16.9"	15.5"
12'-0"	24.2"	22.9"	21.3"	19.4"
14'-0"	29.6"	27.9"	25.9"	23.7"
14'-8"	31.4"	29.6"	27.5"	25.1"
16'-0"	35.1"	33.1"	30.8"	28.1"
17'-0"	38.0"	35.8"	33.3"	30.4"
18'-2"	41.4"	39.0"	36.3"	33.1"

LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM
Tx = PARALLEL LOADS (PLF)

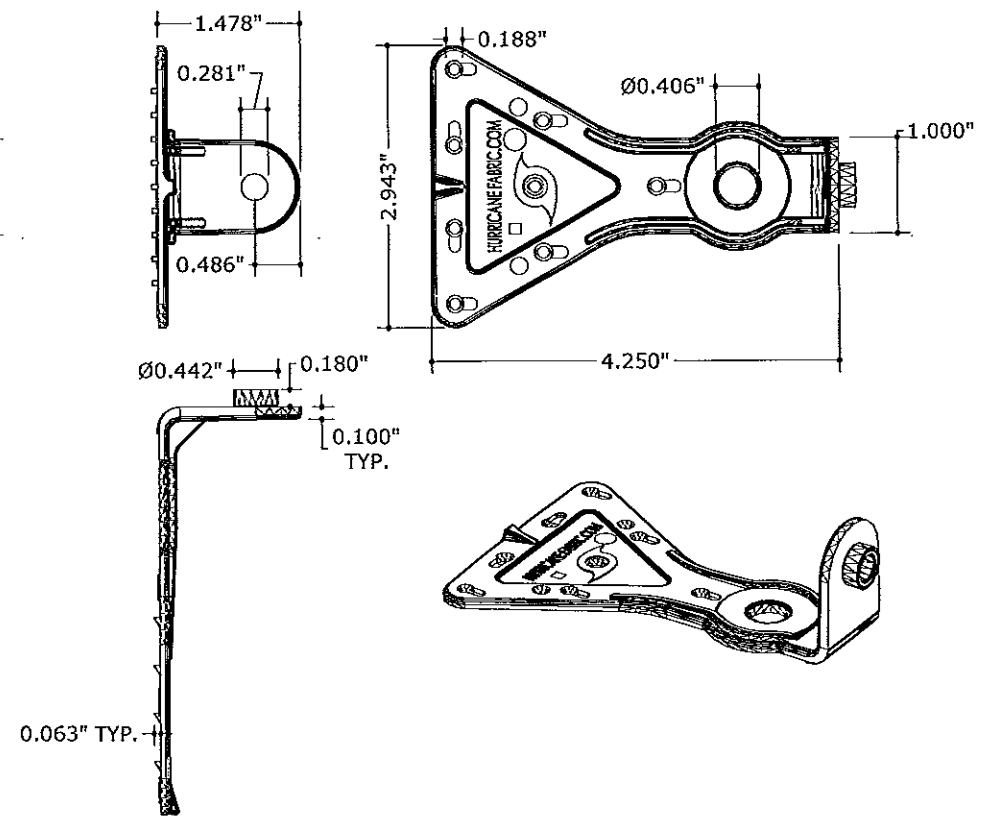
SPAN	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	250.4	221.7	191.1	157.7
6'-0"	328.1	290.5	250.4	206.7
8'-0"	397.4	351.9	303.3	250.4
10'-0"	461.2	408.4	351.9	290.5
12'-0"	520.8	461.2	397.4	328.1
14'-0"	577.1	511.1	440.4	363.6
14'-8"	595.3	527.2	454.3	375.0
16'-0"	630.9	558.7	481.5	397.4
17'-0"	656.9	581.7	501.3	413.8
18'-2"	686.6	608.0	524.0	432.5

LOAD ON EXISTING STRUCTURE FROM SCREEN SYSTEM
Ty = PERPENDICULAR LOADS (PLF)

SPAN	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	120.0	100.0	80.0	60.0
6'-0"	180.0	150.0	120.0	90.0
8'-0"	240.0	200.0	160.0	120.0
10'-0"	300.0	250.0	200.0	150.0
12'-0"	360.0	300.0	240.0	180.0
14'-0"	420.0	350.0	280.0	210.0
14'-8"	440.0	366.7	293.3	220.0
16'-0"	480.0	400.0	320.0	240.0
17'-0"	510.0	425.0	340.0	255.0
18'-2"	545.0	454.2	363.3	272.5



1 BOTTOM MOUNTING CLIP
N.T.S. POLYAMIDE 66



2 TOP MOUNTING CLIP
N.T.S. POLYAMIDE 66

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-1004.02 Expiration Date 10/20/2015
By *[Signature]*
Mizal Dade Product Control

FRANK L. BENNARDO, P.E.
No. 46549
03/25/2013
STATE OF FLORIDA
PROFESSIONAL ENGINEER
160 SW 12th AVENUE, #306
DEERFIELD BEACH, FL 33442
PH: (954) 354-0660 FAX: (954) 354-0446
WWW.ENGEXP.COM
CERT OF AUTH #0885
A FRANK L. BENNARDO, P.E., INC. INNOVATION

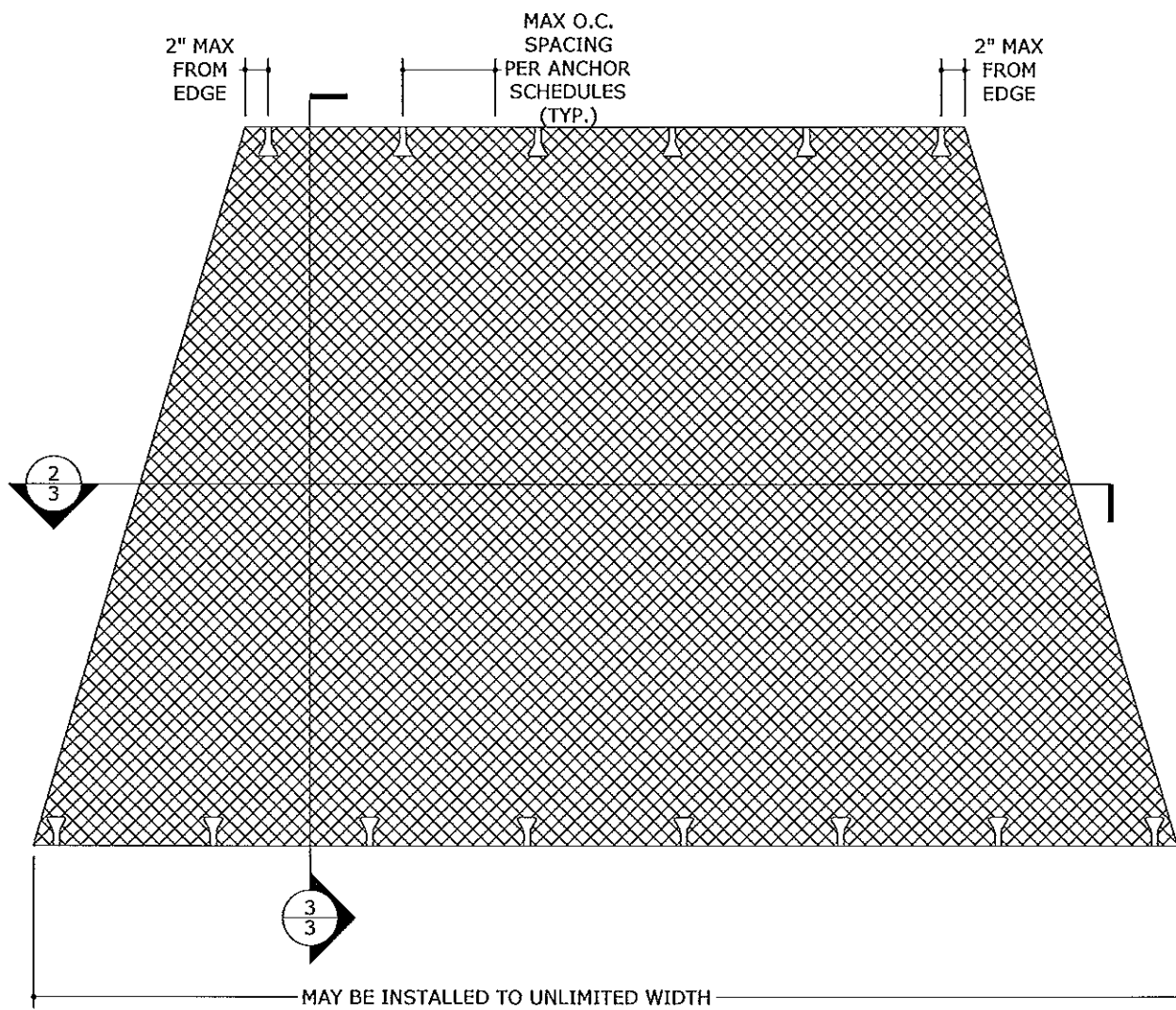
HURRICANE FABRIC, LLC
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DRWN	CHKD	DATE
KL	FLB	07/16/12
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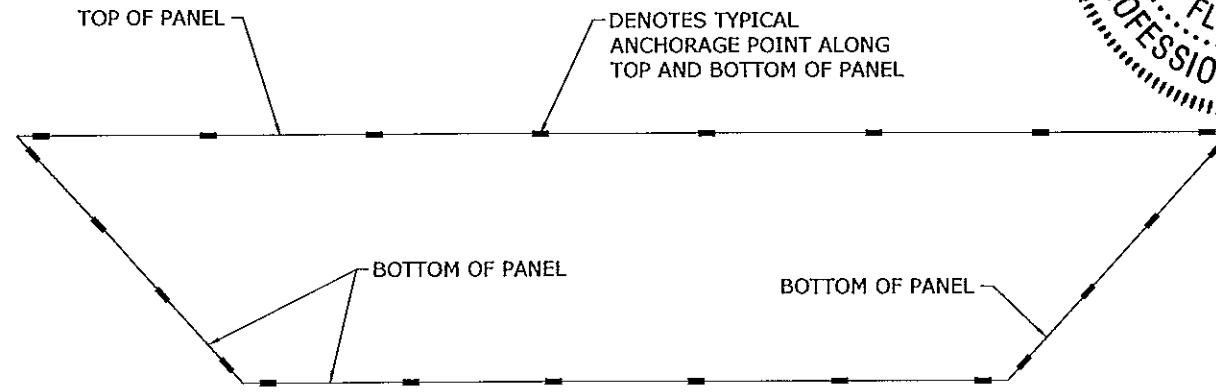
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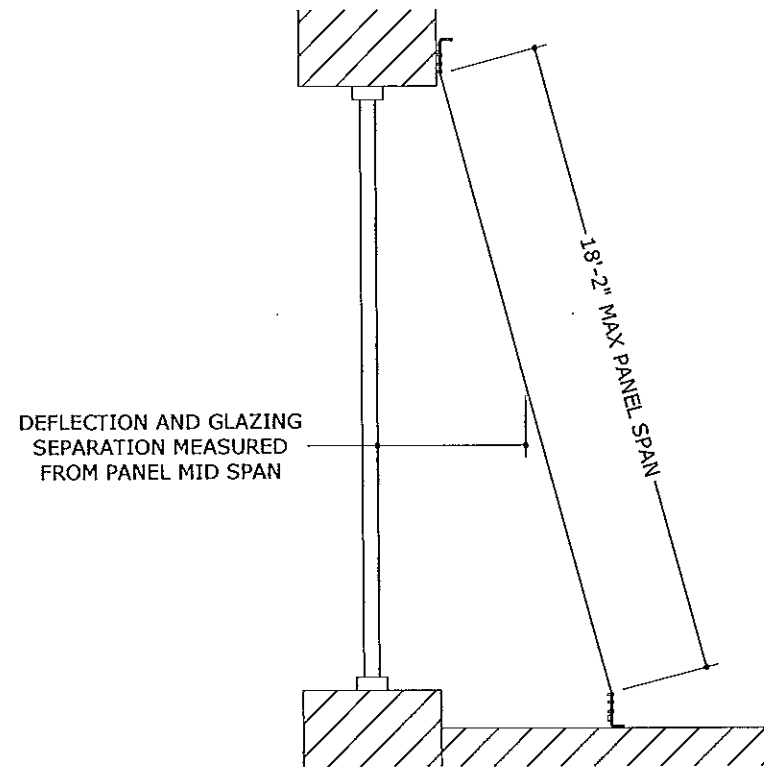
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1 ANGLLED PANEL INSTALLTION
3 N.T.S. EXTERIOR ELEV

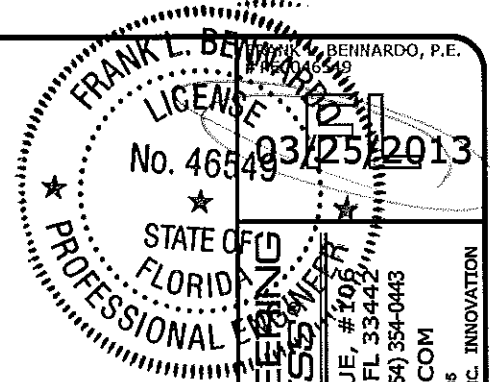


2 ANGLLED PANEL INSTALLTION
3 N.T.S. PLAN VIEW



3 ANGLLED PANEL INSTALLTION
3 N.T.S. VERTICAL SECTION

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as complying with the Florida
Building Code
Acceptance No 12-1004.02
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By *[Signature]*
Miami Dade Product Control



ENGINEERING EXPRESS
160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
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WWW.ENGEXP.COM
CERT OF AUTH #8885
A FRANK L. BENARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC
1505 POINSETTIA DR, SUITE H-3
DELRAY BEACH, FL 33444
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12-HFC-04
SCALE: 02
PAGE DESCRIPTION:
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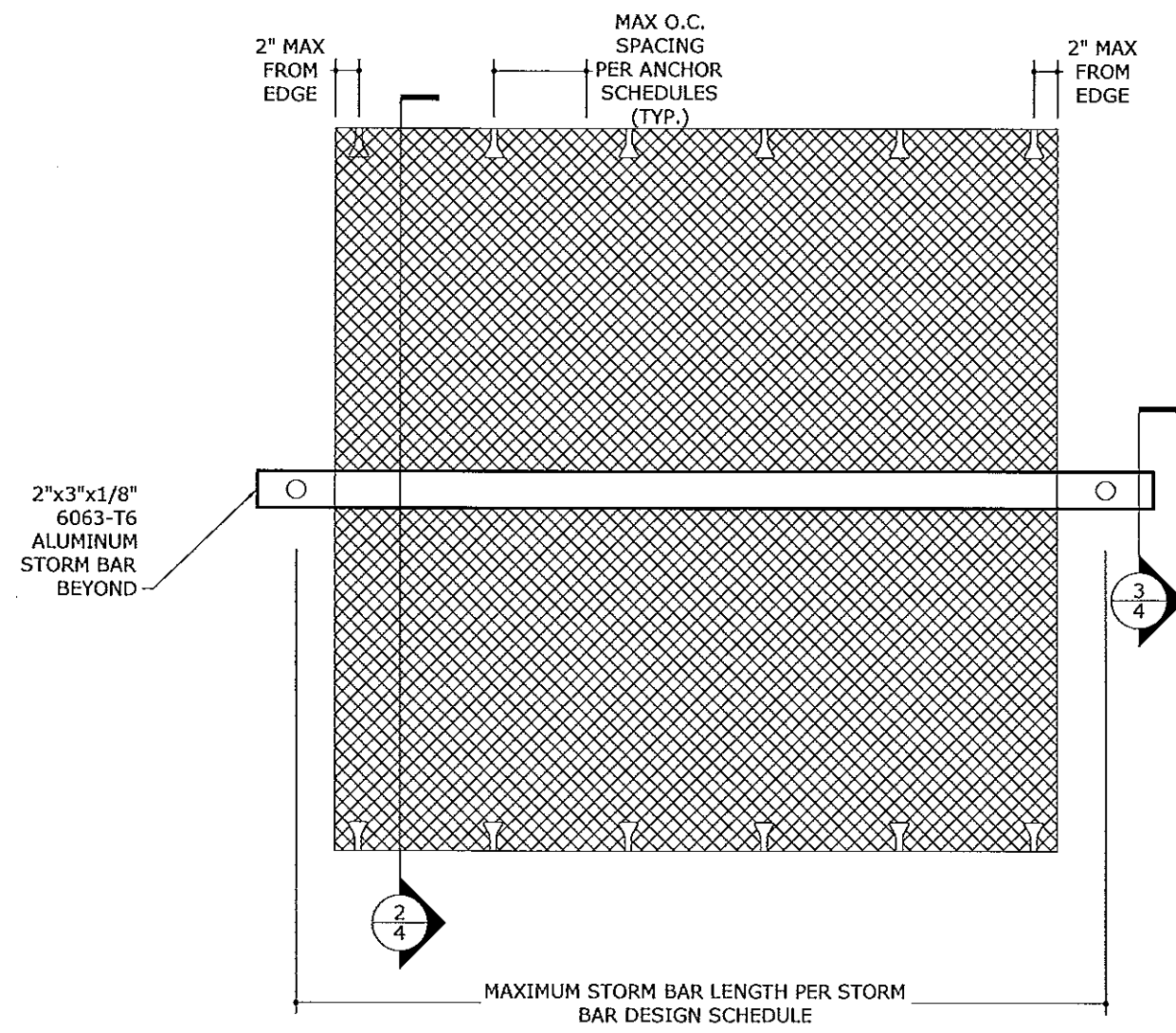
FRANK L. BENNARDO, P.E.
 LICENSE No. 46549
 03/25/2013
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

EXPRESS ENGINEERING
 160 SW 12th AVENUE, #106
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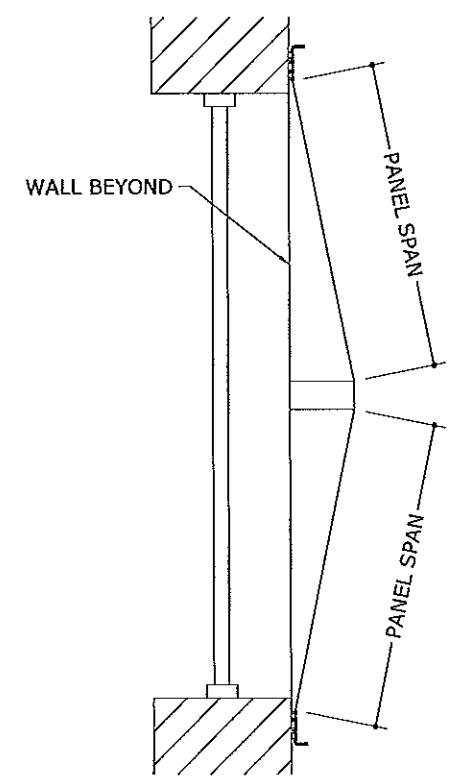
HURRICANE FABRIC, LLC
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REMARKS	INIT ISSUE	REVIEWER	COMMENT	DRWN	CHKD	DATE
				KL	FLB	FLB
				KL	FLB	07/16/12
				KL	FLB	03/22/13

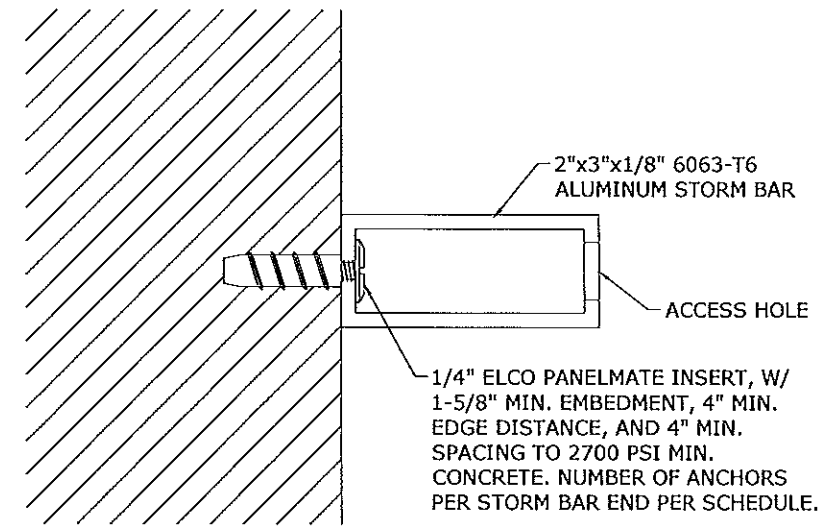
12-HFC-04
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 11
4



1
4
INSTALLATION W/ STORM BAR
 N.T.S. EXTERIOR ELEV



2
4
INSTALLATION W/ STORM BAR
 N.T.S. VERTICAL SECTION

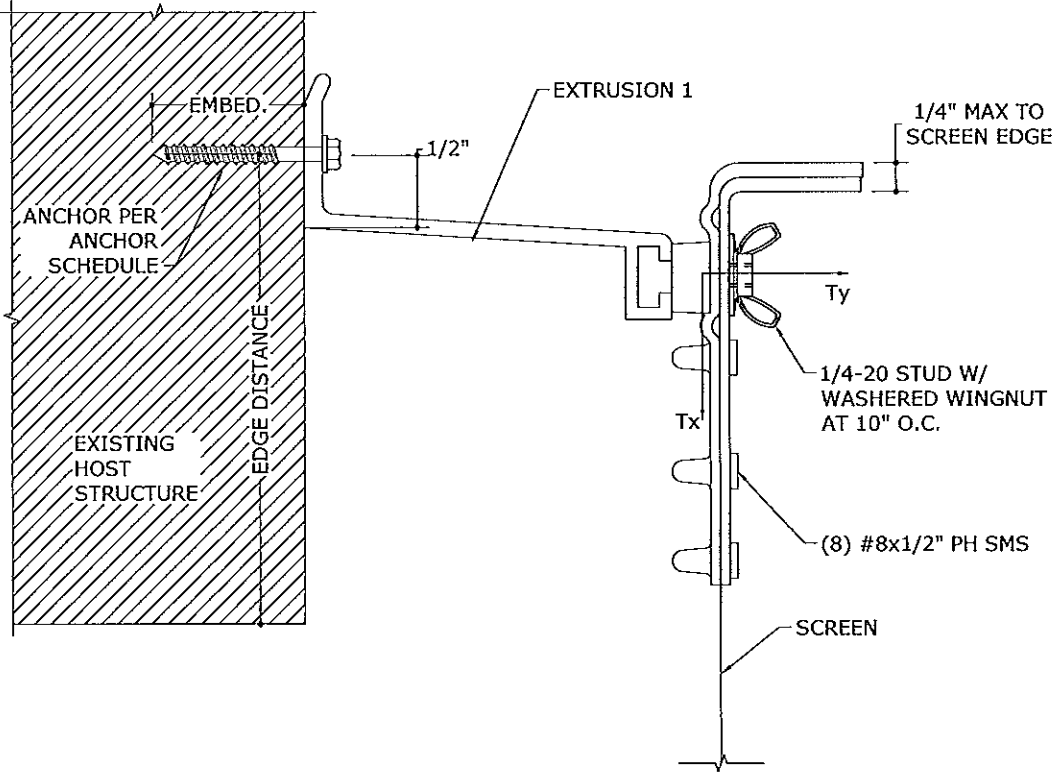


3
4
STORM BAR END DETAIL
 N.T.S. VERTICAL SECTION

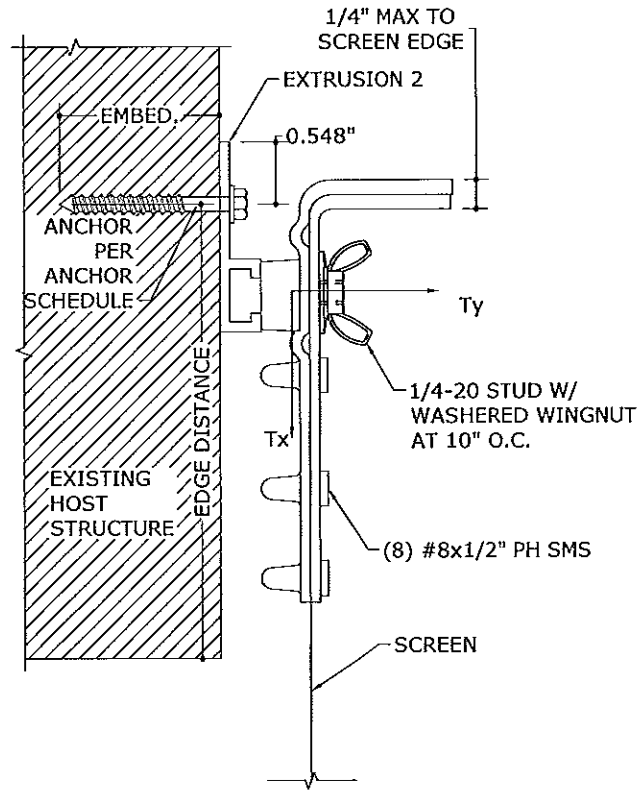
MAX PANEL SPAN	STORM BAR DESIGN SCHEDULE - MAX STORM BAR LENGTH											
	1 ANCHOR(S) PER END				2 ANCHOR(S) PER END				3 ANCHOR(S) PER END			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
3 FT	75"	80"	86"	94"	75"	80"	86"	94"	75"	80"	86"	94"
4 FT	59"	70"	78"	86"	68"	72"	78"	86"	68"	72"	78"	86"
5 FT	47"	56"	70"	80"	63"	67"	72"	80"	63"	67"	72"	80"
6 FT	39"	47"	59"	75"	60"	63"	68"	75"	60"	63"	68"	75"
7 FT	33"	40"	50"	67"	56"	60"	65"	71"	56"	60"	65"	71"
8 FT	29"	35"	44"	59"	53"	57"	62"	68"	53"	57"	62"	68"
9 FT	28"	31"	39"	52"	50"	54"	60"	65"	50"	54"	60"	65"

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-1004-02
 Expiration Date 10/20/2015
 By *[Signature]*
 Miami Dade Product Control

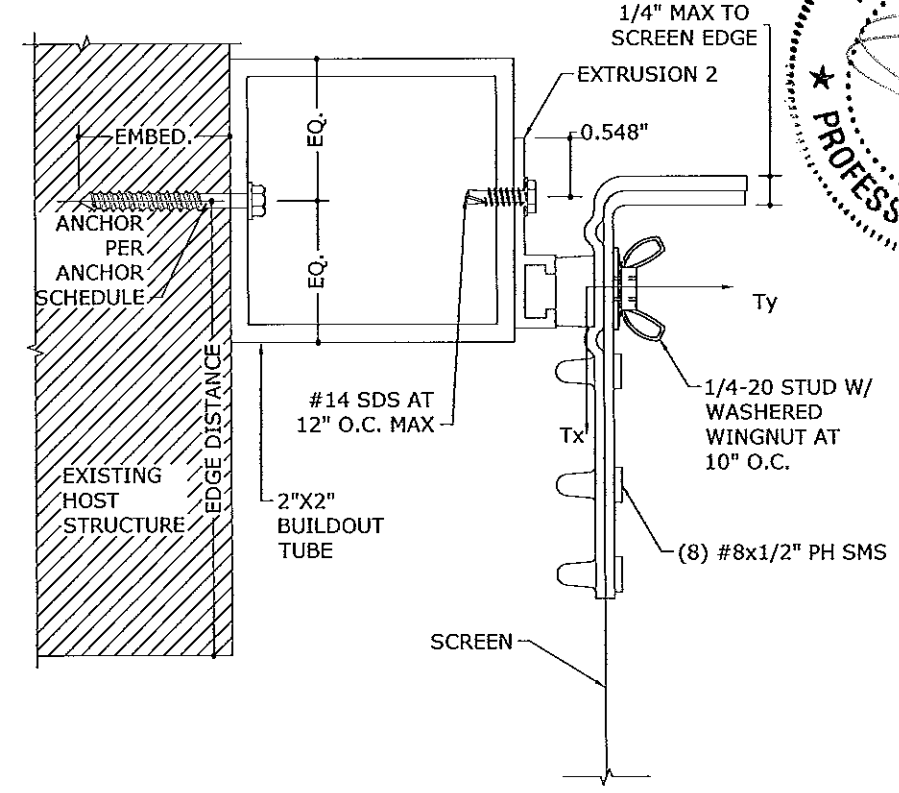
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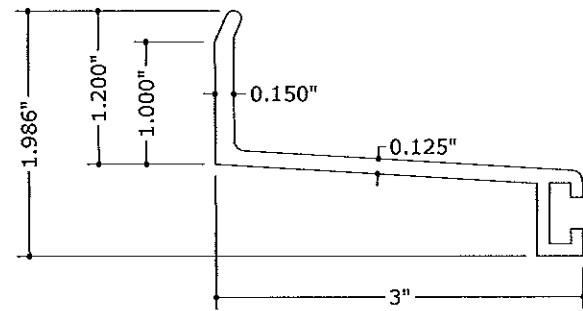
1 ALTERNATE ATTACHMENT EXTRUSION 1 MOUNT
5 N.T.S. SECTION VIEW



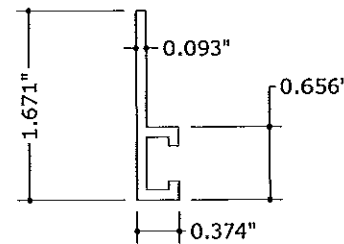
2 ALTERNATE ATTACHMENT EXTRUSION 2 MOUNT
5 N.T.S. SECTION VIEW



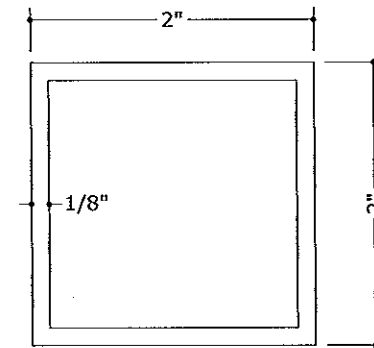
3 ALTERNATE ATTACHMENT BUILD OUT TUBE MOUNT
5 N.T.S. SECTION VIEW



1 BUILD OUT F TRACK
 N.T.S. 6063-T6 ALUM



2 F TRACK
 N.T.S. 6063-T6 ALUM



3 2"X2" BUILDOUT TUBE
 N.T.S. 6063-T6 ALUM

PRODUCT REVISED
 as complying with the Florida
 Building Code
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 By *[Signature]*
 Miami Dade Product Control


FRANK L. BENNARDO
 LICENSE
 No. 03/25/2013
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 ENGINEERING EXPRESS, INC.
 160 SW 12th AVENUE, # 106
 DEERFIELD BEACH, FL 33442
 Ph: (954) 354-0660 Fax: (954) 354-0444
 WWW.ENGGEXP.COM
 CERT OF AUTH #9885
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC
 1505 POINSETTIA DR, SUITE H-3
 DELRAY BEACH, FL 33444
 WWW.HURRICANEFABRIC.COM
ASTRO GUARD
 WIND ABATEMENT SYSTEM
 MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	07/16/12
REVIEWER COMMENT	KL	FLB	03/22/13

12-HFC-04
 SCALE: 02
 PAGE DESCRIPTION:
 5

ANCHOR NOTES:

1. SEE EXTERIOR ELEVATION FOR ANCHOR LOCATIONS AND/OR SPACING.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
3. UNLESS OTHERWISE NOTED HEREIN, WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
4. WOOD HOST STRUCTURE SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY.
5. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
6. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
7. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
8. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
9.  DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
10. EDGE DISTANCES AND EMBEDMENT REQUIREMENTS ARE AS FOLLOWS:

10.1. 1/4" ITW SAMMY SSC

- 10.1.1. 2-1/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 10.1.2. 1-1/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO HOLLOW CONCRETE BLOCK
- 10.1.3. 2-1/2" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

10.2. 1/4" ELCO PANELMATE (MALE OR FEMALE)

- 10.2.1. 1-3/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 10.2.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 10.2.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

10.3. 1/4" POWERS HOLLOW-SET DROPIN

- 10.3.1. 7/8" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO CONCRETE AND HOLLOW AND GROUT-FILLED CONCRETE BLOCK

10.4. 1/4" ELCO PANELMATE INSERT

- 10.4.1. 1-5/8" EMBEDMENT AND 4" EDGE DISTANCE TO CONCRETE
- 10.4.2. 1-1/4" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO HOLLOW CONCRETE BLOCK
- 10.4.3. 1-1/2" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

10.5. 1/4" ALL POINTS SOLID-SET

- 10.5.1. 7/8" EMBEDMENT AND 3" EDGE DISTANCE TO CONCRETE AND HOLLOW AND GROUT-FILLED CONCRETE BLOCK

10.6. 1/4" POWERS STEEL DROPIN

- 10.6.1. 1" EMBEDMENT AND 3-1/2" EDGE DISTANCE TO CONCRETE

10.7. 3/8" POWERS STEEL DROPIN

- 10.7.1. 1-9/16" EMBEDMENT AND 5-1/4" EDGE DISTANCE TO CONCRETE

10.8. 1/4" POWERS POWER-STUD (STAINLESS STEEL)


- 10.8.1. 2" EMBEDMENT AND 3" EDGE DISTANCE TO CONCRETE
- 10.8.2. 2" EMBEDMENT AND 5-1/4" EDGE DISTANCE TO GROUT-FILLED CONCRETE BLOCK

10.9. 1/4" ELCO PANELMATE TVAS

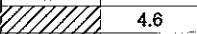
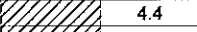
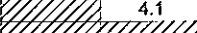
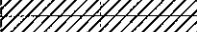
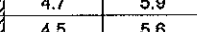
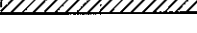
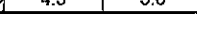
- 10.9.1. 2" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 10.9.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 10.9.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

10.10. 1/4" ELCO PANELMATE FEMALE ID

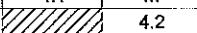
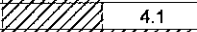
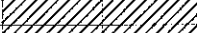
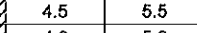

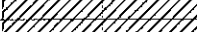
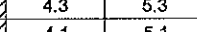
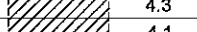

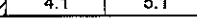

- 10.10.1. 1-3/4" EMBEDMENT AND 2-1/2" EDGE DISTANCE TO CONCRETE
- 10.10.2. 1-1/4" EMBEDMENT AND 3" EDGE DISTANCE TO HOLLOW AND GROUT-FILLED CONCRETE BLOCK
- 10.10.3. 1-7/8" EMBEDMENT AND 3/4" EDGE DISTANCE TO WOOD

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-1004.02
Expiration Date 10/20/2015
By 
Miami Dade Product Control


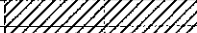
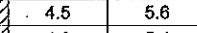
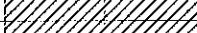
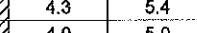
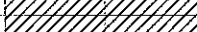
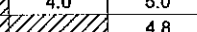


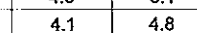
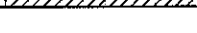
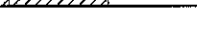
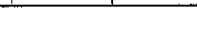
1/4" ITW SAMMY SSC ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	7.9	9.1	10.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	6.2	7.2	8.6	10.0	8.6	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	5.2	6.0	7.2	9.1	7.0	8.3	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0	4.5	5.2	6.2	7.9	6.0	7.0	8.6	10.0
14'-0"	9.7	10.0	10.0	10.0		4.6	5.5	6.9	5.2	6.1	7.5	9.6
14'-8"	9.3	10.0	10.0	10.0		4.4	5.3	6.7	5.0	5.9	7.2	9.3
16'-0"	8.7	10.0	10.0	10.0		4.1	4.9	6.2	4.6	5.4	6.7	8.6
17'-0"	8.2	9.6	10.0	10.0			4.7	5.9	4.4	5.2	6.3	8.1
18'-2"	7.8	9.1	10.0	10.0			4.5	5.6	4.1	4.9	5.9	7.7


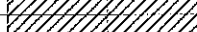
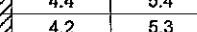


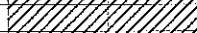










1/4" ITW SAMMY SSC ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

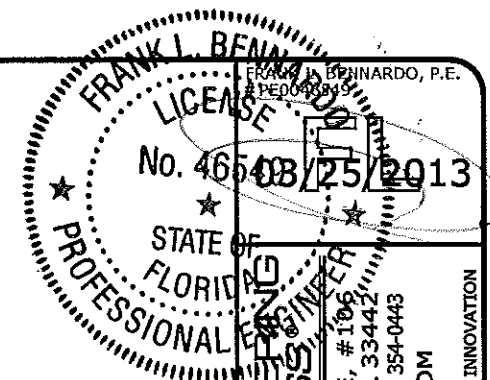
SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.8	7.8	9.2	10.0	7.8	8.9	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.5	6.3	7.5	9.2	6.4	7.3	8.5	10.0
10'-0"	10.0	10.0	10.0	10.0	4.7	5.4	6.3	7.8	5.5	6.2	7.3	8.9
12'-0"	9.6	10.0	10.0	10.0	4.1	4.7	5.5	6.8	4.8	5.5	6.4	7.8
14'-0"	8.6	9.8	10.0	10.0		4.2	5.0	6.1	4.3	4.9	5.8	7.0
14'-8"	8.3	9.5	10.0	10.0		4.1	4.8	5.9	4.2	4.8	5.6	6.8
16'-0"	7.8	8.9	10.0	10.0			4.5	5.5		4.5	5.2	6.4
17'-0"	7.5	8.5	10.0	10.0			4.3	5.3		4.3	5.0	6.1
18'-2"	7.1	8.1	9.6	10.0			4.1	5.1		4.1	4.8	5.9

1/4" ELCO PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.5	9.8	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.3	7.2	8.5	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.0	5.8	6.9	8.5	8.3	9.8	10.0	10.0
10'-0"	9.9	10.0	10.0	10.0	4.2	4.9	5.8	7.2	6.9	8.1	9.8	10.0
12'-0"	8.5	9.9	10.0	10.0		4.2	5.0	6.3	5.9	6.9	8.3	10.0
14'-0"	7.5	8.7	10.0	10.0			4.5	5.6	5.1	6.0	7.3	9.4
14'-8"	7.2	8.4	10.0	10.0			4.3	5.4	4.9	5.8	7.0	9.0
16'-0"	6.7	7.8	9.4	10.0			4.0	5.0	4.6	5.4	6.5	8.3
17'-0"	6.4	7.4	8.9	10.0				4.8	4.3	5.1	6.2	7.9
18'-2"	6.0	7.0	8.5	10.0				4.6	4.1	4.8	5.8	7.5

1/4" ELCO PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.3	9.4	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.1	7.0	8.3	10.0	8.5	9.7	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	4.9	5.6	6.7	8.3	6.9	7.9	9.3	10.0
10'-0"	8.9	10.0	10.0	10.0	4.1	4.8	5.6	7.0	5.8	6.7	7.9	9.7
12'-0"	7.8	8.9	10.0	10.0		4.1	4.9	6.1	5.1	5.8	6.9	8.5
14'-0"	6.9	8.0	9.4	10.0			4.4	5.4	4.5	5.2	6.1	7.6
14'-8"	6.7	7.7	9.1	10.0			4.2	5.3	4.4	5.0	5.9	7.3
16'-0"	6.3	7.2	8.5	10.0				4.9	4.1	4.7	5.6	6.9
17'-0"	6.0	6.9	8.1	10.0				4.7		4.5	5.3	6.6
18'-2"	5.7	6.5	7.7	9.6				4.5		4.3	5.1	6.3



ENGINEERING EXPRESS
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CERT OF AUTH #0985

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REMARKS
INIT ISSUE
REVIEWER COMMENT

12-HFC-04
SCALE: **1/2"**
PAGE DESCRIPTION:
11

03/25/2013 - 9:29am keith F:\01 Project Files\Hurricane Fabric (HFC)\2012\12-HFC-04 AstroGuard NOA12-HFC-04 AstroGuard NOA12-HFC-04_02a AstroGuard NOA.dwg

1/4" POWERS HOLLOW-SET DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	4.9	5.5	6.5	7.8
6'-0"	9.1	10.0	10.0	10.0		4.2	4.9	6.0
8'-0"	7.4	8.4	9.9	10.0			4.0	4.9
10'-0"	6.2	7.2	8.4	10.0				4.2
12'-0"	5.4	6.2	7.4	9.1				
14'-0"	4.8	5.6	6.6	8.1				
14'-8"	4.7	5.4	6.4	7.9				
16'-0"	4.4	5.0	6.0	7.4				
17'-0"	4.2	4.8	5.7	7.1				
18'-2"		4.6	5.4	6.7				

1/4" POWERS HOLLOW-SET DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.1	9.5	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	5.6	6.6	8.1	10.0
8'-0"	8.1	9.3	10.0	10.0	4.3	5.1	6.3	8.1
10'-0"	6.8	7.8	9.3	10.0		4.2	5.1	6.6
12'-0"	5.8	6.8	8.1	10.0			4.3	5.6
14'-0"	5.1	6.0	7.1	9.0				4.9
14'-8"	5.0	5.7	6.9	8.7				4.7
16'-0"	4.6	5.4	6.4	8.1				4.3
17'-0"	4.4	5.1	6.1	7.7				4.1
18'-2"	4.1	4.8	5.8	7.3				

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.6	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.7	8.9	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	6.5	7.5	8.9	10.0
12'-0"	9.8	10.0	10.0	10.0	5.6	6.5	7.7	9.6
14'-0"	8.7	10.0	10.0	10.0	5.0	5.8	6.8	8.5
14'-8"	8.4	9.7	10.0	10.0	4.8	5.5	6.6	8.2
16'-0"	7.8	9.0	10.0	10.0	4.5	5.2	6.2	7.7
17'-0"	7.5	8.6	10.0	10.0	4.3	4.9	5.9	7.4
18'-2"	7.1	8.2	9.7	10.0	4.1	4.7	5.6	7.0

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.6	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.7	8.9	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	6.5	7.5	8.9	10.0
12'-0"	9.9	10.0	10.0	10.0	5.6	6.5	7.7	9.6
14'-0"	8.8	10.0	10.0	10.0	5.0	5.8	6.9	8.5
14'-8"	8.5	9.8	10.0	10.0	4.8	5.6	6.6	8.3
16'-0"	7.9	9.1	10.0	10.0	4.5	5.2	6.2	7.7
17'-0"	7.5	8.7	10.0	10.0	4.3	4.9	5.9	7.4
18'-2"	7.1	8.2	9.8	10.0	4.1	4.7	5.6	7.0

1/4" ELCO PANELMATE INSERT ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.4	10.0	10.0	10.0	9.6	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.5	8.6	10.0	10.0	7.6	8.8	10.0	10.0
10'-0"	8.4	9.9	10.0	10.0	6.3	7.2	8.6	10.0	6.4	7.4	8.8	10.0
12'-0"	7.2	8.4	10.0	10.0	5.4	6.3	7.5	9.4	5.5	6.4	7.6	9.6
14'-0"	6.3	7.4	9.0	10.0	4.8	5.5	6.6	8.3	4.9	5.7	6.8	8.5
14'-8"	6.0	7.1	8.6	10.0	4.6	5.3	6.4	8.0	4.7	5.5	6.5	8.2
16'-0"	5.6	6.5	8.0	10.0	4.3	5.0	6.0	7.5	4.4	5.1	6.1	7.6
17'-0"	5.3	6.2	7.6	9.7	4.1	4.7	5.7	7.1	4.2	4.8	5.8	7.3
18'-2"	5.0	5.8	7.1	9.2		4.5	5.4	6.8		4.6	5.5	6.9

1/4" ELCO PANELMATE INSERT ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	9.6	10.0	10.0	10.0	8.8	10.0	10.0	10.0	8.8	10.0	10.0	10.0
8'-0"	7.9	8.9	10.0	10.0	7.1	8.1	9.6	10.0	7.1	8.2	9.6	10.0
10'-0"	6.7	7.6	8.9	10.0	6.0	6.9	8.1	10.0	6.0	6.9	8.2	10.0
12'-0"	5.9	6.7	7.9	9.6	5.2	6.0	7.1	8.8	5.3	6.0	7.1	8.8
14'-0"	5.3	6.0	7.0	8.6	4.6	5.3	6.3	7.8	4.7	5.4	6.4	7.9
14'-8"	5.1	5.8	6.8	8.3	4.5	5.1	6.1	7.5	4.5	5.2	6.1	7.6
16'-0"	4.8	5.5	6.4	7.9	4.2	4.8	5.7	7.1	4.2	4.8	5.7	7.1
17'-0"	4.6	5.2	6.1	7.5		4.6	5.4	6.8	4.0	4.6	5.5	6.8
18'-2"	4.4	5.0	5.9	7.2		4.3	5.2	6.4		4.4	5.2	6.5

1/4" POWERS STEEL DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	9.0	10.0	10.0	10.0
14'-0"	8.0	9.2	10.0	10.0
14'-8"	7.7	8.9	10.0	10.0
16'-0"	7.2	8.3	9.9	10.0
17'-0"	6.9	7.9	9.4	10.0
18'-2"	6.5	7.5	8.9	10.0

3/8" POWERS STEEL DROPIN ANCHOR SCHEDULE INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0
14'-0"	10.0	10.0	10.0	10.0
14'-8"	10.0	10.0	10.0	10.0
16'-0"	10.0	10.0	10.0	10.0
17'-0"	10.0	10.0	10.0	10.0
18'-2"	10.0	10.0	10.0	10.0

1/4" POWERS STEEL DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	9.2	10.0	10.0	10.0
14'-0"	8.1	9.4	10.0	10.0
14'-8"	7.8	9.1	10.0	10.0
16'-0"	7.3	8.5	10.0	10.0
17'-0"	7.0	8.1	9.6	10.0
18'-2"	6.6	7.6	9.1	10.0

3/8" POWERS STEEL DROPIN ANCHOR SCHEDULE WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0
12'-0"	10.0	10.0	10.0	10.0
14'-0"	10.0	10.0	10.0	10.0
14'-8"	10.0	10.0	10.0	10.0
16'-0"	10.0	10.0	10.0	10.0
17'-0"	10.0	10.0	10.0	10.0
18'-2"	10.0	10.0	10.0	10.0

NOTE: SEE SHEET 6 FOR ANCHOR NOTES

FRANK L. BENNARDO, P.E.
 LICENSE No. 46549
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 03/25/2013
 WWW.ENGEXP.COM
 160 SW 12th AVENUE, #106
 DEERFIELD BEACH, FL 33442
 PH: (954) 354-0660 FAX: (954) 354-0443
 A FRANK L. BENNARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC
 1505 POINSETTA DR, SUITE H-3
 DELRAY BEACH, FL 33444
 WWW.HURRICANEFABRIC.COM
 ASTRO GUARD
 WIND ABATEMENT SYSTEM
 MIAMI-DADE NOTICE OF ACCEPTANCE

DRWN	CHKD	DATE
KL	FLB	07/16/12
KL	FLB	03/22/13

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-1004.02
 Expiration Date 10/20/2015
 By *[Signature]*
 Miami Dade Product Control

12-HFC-04
 SCALE: 1/2"
 PAGE DESCRIPTION:
 7

F:\01 Project Files\Hurricane Fabric (HFC)\2012\12-HFC-04 AstroGuard NOA112-HFC-04_D2a AstroGuard NOA.dwg
keithl
02/25/2013 - 9:29am

1/4" POWERS POWER-STUD ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	9.2	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	7.3	8.4	10.0	10.0
10'-0"	9.7	10.0	10.0	10.0	6.1	7.1	8.4	10.0
12'-0"	8.4	9.7	10.0	10.0	5.2	6.1	7.3	9.2
14'-0"	7.4	8.6	10.0	10.0	4.6	5.4	6.4	8.1
14'-8"	7.1	8.2	9.9	10.0	4.4	5.2	6.2	7.8
16'-0"	6.6	7.7	9.2	10.0	4.1	4.8	5.8	7.3
17'-0"	6.3	7.3	8.8	10.0		4.6	5.5	6.9
18'-2"	5.9	6.9	8.3	10.0		4.3	5.2	6.6

1/4" POWERS POWER-STUD ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	8.0	9.1	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	6.5	7.4	8.7	10.0
10'-0"	8.9	10.0	10.0	10.0	5.5	6.3	7.4	9.1
12'-0"	7.8	8.9	10.0	10.0	4.8	5.5	6.5	8.0
14'-0"	6.9	7.9	9.4	10.0	4.3	4.9	5.8	7.1
14'-8"	6.7	7.7	9.1	10.0	4.1	4.7	5.6	6.9
16'-0"	6.2	7.2	8.5	10.0		4.4	5.2	6.5
17'-0"	6.0	6.9	8.1	10.0		4.2	5.0	6.2
18'-2"	5.7	6.5	7.7	9.6		4.0	4.7	5.9

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1004-02
Expiration Date 12/22/2015
By: *[Signature]*
Miami Data Product Control

1/4" ELCO PANELMATE TVAS ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	9.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.7	7.7	9.0	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.4	6.2	7.3	9.0	8.3	9.8	10.0	10.0
10'-0"	10.0	10.0	10.0	10.0	4.6	5.2	6.2	7.7	6.9	8.1	9.8	10.0
12'-0"	10.0	10.0	10.0	10.0		4.6	5.4	6.7	5.9	6.9	8.3	10.0
14'-0"	9.4	10.0	10.0	10.0		4.1	4.8	6.0	5.1	6.0	7.3	9.4
14'-8"	9.0	10.0	10.0	10.0			4.7	5.8	4.9	5.8	7.0	9.0
16'-0"	8.4	9.8	10.0	10.0			4.4	5.4	4.6	5.4	6.5	8.3
17'-0"	8.0	9.3	10.0	10.0			4.2	5.2	4.3	5.1	6.2	7.9
18'-2"	7.6	8.8	10.0	10.0				4.9	4.1	4.8	5.8	7.5

1/4" ELCO PANELMATE TVAS ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	7.4	8.5	10.0	10.0	8.5	9.7	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.9	6.8	8.1	10.0	6.9	7.9	9.3	10.0
10'-0"	10.0	10.0	10.0	10.0	4.9	5.7	6.8	8.5	5.8	6.7	7.9	9.7
12'-0"	10.0	10.0	10.0	10.0	4.3	4.9	5.9	7.4	5.1	5.8	6.9	8.5
14'-0"	9.2	10.0	10.0	10.0		4.3	5.2	6.5	4.5	5.2	6.1	7.6
14'-8"	8.9	10.0	10.0	10.0		4.2	5.0	6.3	4.4	5.0	5.9	7.3
16'-0"	8.3	9.5	10.0	10.0			4.7	5.9	4.1	4.7	5.6	6.9
17'-0"	7.9	9.1	10.0	10.0			4.5	5.6		4.5	5.3	6.6
18'-2"	7.5	8.6	10.0	10.0			4.2	5.3		4.3	5.1	6.3

1/4" ELCO PANELMATE FEMALE ID ANCHOR SCHEDULE - INTERIOR MOUNT CONDITION (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.5	9.8	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.3	7.2	8.5	10.0	10.0	10.0	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	5.0	5.8	6.9	8.5	8.3	9.8	10.0	10.0
10'-0"	9.9	10.0	10.0	10.0	4.2	4.9	5.8	7.2	6.9	8.1	9.8	10.0
12'-0"	8.5	9.9	10.0	10.0		4.2	5.0	6.3	5.9	6.9	8.3	10.0
14'-0"	7.5	8.7	10.0	10.0			4.5	5.6	5.1	6.0	7.3	9.4
14'-8"	7.2	8.4	10.0	10.0			4.3	5.4	4.9	5.8	7.0	9.0
16'-0"	6.7	7.8	9.4	10.0			4.0	5.0	4.6	5.4	6.5	8.3
17'-0"	6.4	7.4	8.9	10.0				4.8	4.3	5.1	6.2	7.9
18'-2"	6.0	7.0	8.5	10.0				4.6	4.1	4.8	5.8	7.5

1/4" ELCO PANELMATE FEMALE ID ANCHOR SCHEDULE - WALL MOUNT CONDITION (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.0	10.0	10.0	10.0	8.3	9.4	10.0	10.0	10.0	10.0	10.0	10.0
6'-0"	10.0	10.0	10.0	10.0	6.1	7.0	8.3	10.0	8.5	9.7	10.0	10.0
8'-0"	10.0	10.0	10.0	10.0	4.9	5.6	6.7	8.3	6.9	7.9	9.3	10.0
10'-0"	8.9	10.0	10.0	10.0	4.1	4.8	5.6	7.0	5.8	6.7	7.9	9.7
12'-0"	7.8	8.9	10.0	10.0		4.1	4.9	6.1	5.1	5.8	6.9	8.5
14'-0"	6.9	8.0	9.4	10.0			4.4	5.4	4.5	5.2	6.1	7.6
14'-8"	6.7	7.7	9.1	10.0			4.2	5.3	4.4	5.0	5.9	7.3
16'-0"	6.3	7.2	8.5	10.0				4.9	4.1	4.7	5.6	6.9
17'-0"	6.0	6.9	8.1	10.0				4.7		4.5	5.3	6.6
18'-2"	5.7	6.5	7.7	9.6				4.5		4.3	5.1	6.3

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	5.7	6.5	7.6	9.2		4.1	4.8	5.9
6'-0"	4.3	4.9	5.7	7.0				4.5
8'-0"		4.0	4.7	5.7				
10'-0"			4.0	4.9				
12'-0"				4.3				

1/4" ELCO PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.1	4.6	5.4	6.6		4.3	5.0	6.0
6'-0"			4.1	5.0				4.6
8'-0"				4.1				

1/4" ELCO PANELMATE INSERT ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.2	4.8	5.5	6.7				4.1
6'-0"			4.2	5.1				
8'-0"				4.2				

NOTE: SEE SHEET 6 FOR ANCHOR NOTES

FRANK L. BENNARDO, P.E.
LICENSED PROFESSIONAL ENGINEER
No. 465493/25/2013
STATE OF FLORIDA
PROFESSIONAL ENGINEER
160 SW 12th AVENUE, #106
DEERFIELD BEACH, FL 33442
Ph: (954) 354-0660 FAX: (954) 354-0443
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CERT OF AUTH #0085
A FRANK L. BENNARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC

1505 POINSETTIA DR, SUITE H-3
DELRAY BEACH, FL 33444
WWW.HURRICANEFABRIC.COM

ASTRO GUARD
WIND ABATEMENT SYSTEM
MIAMI-DADE NOTICE OF ACCEPTANCE

DRWN	CHKD	DATE	KL	FLB	KL	FLB	KL	FLB
		07/16/12						
REVISION <td><td><td><td><td><td><td><td></td></td></td></td></td></td></td></td>	<td><td><td><td><td><td><td></td></td></td></td></td></td></td>	<td><td><td><td><td><td></td></td></td></td></td></td>	<td><td><td><td><td></td></td></td></td></td>	<td><td><td><td></td></td></td></td>	<td><td><td></td></td></td>	<td><td></td></td>	<td></td>	
REVIEWER COMMENT <td><td><td><td><td><td><td><td></td></td></td></td></td></td></td></td>	<td><td><td><td><td><td><td></td></td></td></td></td></td></td>	<td><td><td><td><td><td></td></td></td></td></td></td>	<td><td><td><td><td></td></td></td></td></td>	<td><td><td><td></td></td></td></td>	<td><td><td></td></td></td>	<td><td></td></td>	<td></td>	

12-HFC-04

SCALE: - 02

PAGE DESCRIPTION:

F:\01 Project Files\Hurricane Fabric (HFC)\2012-12-HFC-04 AstroGuard NOA12-HFC-04_02a AstroGuard NOA.dwg

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.2	4.7	5.5	6.7
6'-0"			4.2	5.1
8'-0"				4.2

1/4" POWERS STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"		4.3	5.0	6.1
6'-0"				4.6

3/8" POWERS STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.0	9.1	10.6	12.0
6'-0"	6.1	6.9	8.0	9.8
8'-0"	5.0	5.6	6.6	8.0
10'-0"		4.8	5.6	6.9
12'-0"			5.0	6.1
14'-0"				5.4
14'-8"				5.3
16'-0"				5.0
17'-0"				4.7
18'-2"				4.5

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	6.7	7.8	9.3	11.7	8.8	10.1	11.9	12.0
6'-0"	11.9	12.0	12.0	12.0	4.8	5.6	6.7	8.5	6.5	7.4	8.8	10.9
8'-0"	9.4	10.9	12.0	12.0		4.4	5.3	6.7	5.2	6.0	7.1	8.8
10'-0"	7.8	9.1	10.9	12.0			4.4	5.6	4.4	5.0	6.0	7.4
12'-0"	6.7	7.8	9.4	11.9				4.8		4.4	5.2	6.5
14'-0"	5.9	6.9	8.3	10.5				4.2			4.6	5.8
14'-8"	5.7	6.6	8.0	10.1				4.1			4.4	5.6
16'-0"	5.3	6.2	7.4	9.4							4.1	5.2
17'-0"	5.0	5.9	7.1	9.0								5.0
18'-2"	4.8	5.5	6.7	8.5								4.7

1/4" ELCO PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	5.5	6.4	7.7	9.8	8.7	10.0	11.9	12.0
6'-0"	9.1	10.6	12.0	12.0		4.6	5.5	7.0	6.3	7.3	8.7	10.9
8'-0"	7.2	8.4	10.1	12.0			4.3	5.5	5.1	5.8	7.0	8.7
10'-0"	6.0	6.9	8.4	10.6				4.6	4.2	4.9	5.8	7.3
12'-0"	5.1	6.0	7.2	9.1						4.2	5.1	6.3
14'-0"	4.5	5.2	6.3	8.0							4.5	5.6
14'-8"	4.3	5.0	6.1	7.7							4.3	5.4
16'-0"		4.7	5.6	7.2							4.0	5.1
17'-0"		4.4	5.4	6.8								4.8
18'-2"		4.2	5.1	6.5								4.6

1/4" POWERS POWER-STUD ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"		4.4	5.2	6.3				4.0
6'-0"				4.8				

1/4" ELCO PANELMATE TVAS ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.7	5.3	6.2	7.5		4.3	5.0	6.0
6'-0"		4.0	4.7	5.7				4.6
8'-0"				4.7				
10'-0"				4.0				

1/4" ELCO PANELMATE FEMALE ID ANCHOR SCHEDULE - EXTRUSION 1 MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.1	4.6	5.4	6.6					4.3	5.0		6.0
6'-0"			4.1	5.0								4.6
8'-0"				4.1								

1/4" POWERS HOLLOW-SET DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)

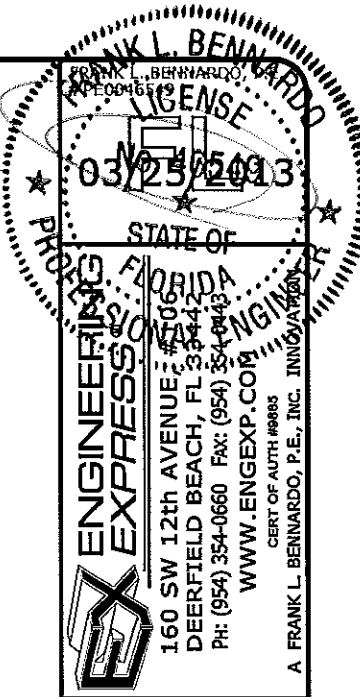
SPAN	4000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.3	9.7	11.7	12.0		4.2	5.2	6.7
6'-0"	5.8	6.8	8.3	10.6				4.6
8'-0"	4.5	5.3	6.4	8.3				
10'-0"		4.3	5.3	6.8				
12'-0"			4.5	5.8				
14'-0"				5.0				
14'-8"				4.8				
16'-0"				4.5				
17'-0"				4.2				
18'-2"								

1/4" ELCO PANELMATE INSERT ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	10.6	12.0	12.0	12.0	8.1	9.5	11.4	12.0	8.3	9.6	11.6	12.0
6'-0"	7.8	8.9	10.6	12.0	5.8	6.8	8.1	10.3	5.9	6.9	8.3	10.5
8'-0"	6.2	7.2	8.5	10.6	4.5	5.3	6.4	8.1	4.6	5.4	6.5	8.3
10'-0"	5.2	6.0	7.2	8.9		4.4	5.3	6.8		4.5	5.4	6.9
12'-0"	4.5	5.2	6.2	7.8			4.5	5.8			4.6	5.9
14'-0"		4.6	5.5	6.9				5.1			4.1	5.2
14'-8"		4.4	5.3	6.6				4.9				5.0
16'-0"		4.1	4.9	6.2				4.5				4.6
17'-0"			4.7	5.9				4.3				4.4
18'-2"			4.5	5.6				4.1				4.2

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-1004.02
 Expiration Date 10/20/2015
 By *[Signature]*
 Miami Dade Product Control

NOTE: SEE SHEET 6 FOR ANCHOR NOTES



HURRICANE FABRIC, LLC
 1505 POINSETTIA DR, SUITE H-3
 DELRAY BEACH, FL 33444
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ASTRO GUARD
 WIND ABATEMENT SYSTEM
 MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	INT ISSUE	REVIEWER COMMENT	DRWN	CHKD	DATE
			KL	FLB	07/16/12
			KL	FLB	03/22/13

12-HFC-04
 SCALE: 1" = 1'-0"
 PAGE DESCRIPTION:
 11

03/25/2013 - 9:29am Keith F:\01 Project Files\Hurricane Fabric (HFC)\2012\12-HFC-04 AstroGuard NOA12-HFC-04 AstroGuard NDA.dwg

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)								
SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	8.5	9.9	11.9	12.0
6'-0"	10.4	12.0	12.0	12.0	6.0	7.0	8.5	10.8
8'-0"	8.1	9.5	11.6	12.0	4.7	5.5	6.6	8.5
10'-0"	6.7	7.8	9.5	12.0		4.5	5.5	7.0
12'-0"	5.7	6.7	8.1	10.4			4.7	6.0
14'-0"	4.9	5.8	7.1	9.1			4.1	5.2
14'-8"	4.7	5.6	6.8	8.8				5.0
16'-0"	4.4	5.2	6.3	8.1				4.7
17'-0"	4.1	4.9	6.0	7.7				4.4
18'-2"		4.6	5.6	7.3				4.2

1/4" POWERS STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	9.6	11.2	12.0	12.0
8'-0"	7.5	8.7	10.6	12.0
10'-0"	6.1	7.2	8.7	11.2
12'-0"	5.2	6.1	7.5	9.6
14'-0"	4.5	5.3	6.5	8.4
14'-8"	4.3	5.1	6.2	8.0
16'-0"	4.0	4.7	5.8	7.5
17'-0"		4.5	5.5	7.1
18'-2"		4.2	5.2	6.7

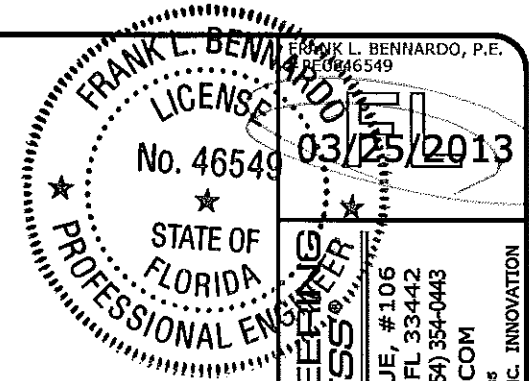
3/8" POWERS STEEL DROPIN ANCHOR SCHEDULE EXTRUSION 2 MOUNT (IN. O.C.)				
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	12.0	12.0	12.0	12.0
8'-0"	12.0	12.0	12.0	12.0
10'-0"	12.0	12.0	12.0	12.0
12'-0"	11.0	12.0	12.0	12.0
14'-0"	9.6	11.3	12.0	12.0
14'-8"	9.2	10.8	12.0	12.0
16'-0"	8.5	10.0	12.0	12.0
17'-0"	8.0	9.5	11.6	12.0
18'-2"	7.6	8.9	10.9	12.0

1/4" POWERS POWER-STUD ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)								
SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	7.8	9.1	10.8	12.0
6'-0"	9.0	10.4	12.0	12.0	5.6	6.5	7.8	9.9
8'-0"	7.0	8.2	9.9	12.0	4.4	5.1	6.2	7.8
10'-0"	5.8	6.8	8.2	10.4		4.3	5.1	6.5
12'-0"	5.0	5.8	7.0	9.0			4.4	5.6
14'-0"	4.3	5.1	6.2	7.9				4.9
14'-8"	4.2	4.9	5.9	7.6				4.7
16'-0"		4.5	5.5	7.0				4.4
17'-0"		4.3	5.2	6.7				4.2
18'-2"		4.1	4.9	6.3				

1/4" ELCO PANELMATE TVAS ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	6.1	7.1	8.6	11.0	8.7	10.0	11.9	12.0
6'-0"	11.3	12.0	12.0	12.0	4.2	5.0	6.1	7.8	6.3	7.3	8.7	10.9
8'-0"	8.8	10.3	12.0	12.0			4.7	6.1	5.1	5.8	7.0	8.7
10'-0"	7.3	8.5	10.3	12.0				5.0	4.2	4.9	5.8	7.3
12'-0"	6.2	7.3	8.8	11.3				4.2		4.2	5.1	6.3
14'-0"	5.4	6.4	7.7	9.9							4.5	5.6
14'-8"	5.2	6.1	7.4	9.5							4.3	5.4
16'-0"	4.8	5.6	6.9	8.8							4.0	5.1
17'-0"	4.6	5.4	6.5	8.4								4.8
18'-2"	4.3	5.0	6.2	7.9								4.6

1/4" ELCO PANELMATE FEMALE ID ANCHOR SCHEDULE - EXTRUSION 2 MOUNT (IN. O.C.)												
SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0	5.5	6.4	7.7	9.8	8.7	10.0	11.9	12.0
6'-0"	9.1	10.6	12.0	12.0		4.6	5.5	7.0	6.3	7.3	8.7	10.9
8'-0"	7.2	8.4	10.1	12.0			4.3	5.5	5.1	5.8	7.0	8.7
10'-0"	6.0	6.9	8.4	10.6				4.6	4.2	4.9	5.8	7.3
12'-0"	5.1	6.0	7.2	9.1					4.2		5.1	6.3
14'-0"	4.5	5.2	6.3	8.0							4.5	5.6
14'-8"	4.3	5.0	6.1	7.7							4.3	5.4
16'-0"		4.7	5.6	7.2							4.0	5.1
17'-0"		4.4	5.4	6.8								4.8
18'-2"		4.2	5.1	6.5								4.6

NOTE: SEE SHEET 6 FOR ANCHOR NOTES



ENGINEER EXPRESS
 160 SW 12th AVENUE, #106
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 CERT. OF AUTH. #0005
 A FRANK L. BENARDO, P.E., INC. INNOVATION

HURRICANE FABRIC, LLC
 1505 POINSETTIA DR, SUITE H-3
 DELRAY BEACH, FL 33444
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 ASTRO GUARD
 WIND ABATEMENT SYSTEM
 MIAMI-DADE NOTICE OF ACCEPTANCE

REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	07/18/12
REVIEWER COMMENT	KL	FLB	03/22/13

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 12-1004.02
 Expiration Date 10/20/2015
 By *[Signature]*
 Miami Dade Product Control

12-HFC-04
 SCALE: - 02
 PAGE DESCRIPTION:
 10

F:\01 Project Files\Hurricane Fabric (HFC)\201212-HFC-04 AstroGuard NOA12-HFC-04_02b AstroGuard NOA.dwg
03/25/2013 - 9:29am Keith

1/4" ITW SAMMY SSC ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3295 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	11.2	12.0	12.0	12.0	4.3	4.9	5.8	7.1	6.6	7.5	8.7	10.7
6'-0"	8.4	9.6	11.2	12.0			4.3	5.3	5.0	5.6	6.6	8.1
8'-0"	6.8	7.8	9.1	11.2				4.3	4.0	4.6	5.4	6.6
10'-0"	5.8	6.6	7.8	9.6							4.6	5.6
12'-0"	5.1	5.8	6.8	8.4							4.0	5.0
14'-0"	4.6	5.2	6.1	7.5								4.4
14'-8"	4.4	5.0	5.9	7.3								4.3
16'-0"	4.1	4.7	5.6	6.8								4.0
17'-0"		4.5	5.3	6.5								
18'-2"		4.3	5.1	6.2								

1/4" ALL POINTS SOLID-SET ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3000 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.8	10.1	11.8	12.0	5.1	5.8	6.8	8.4
6'-0"	6.6	7.5	8.8	10.9		4.4	5.1	6.3
8'-0"	5.4	6.1	7.2	8.8			4.2	5.1
10'-0"	4.6	5.2	6.1	7.5				4.4
12'-0"		4.6	5.4	6.6				
14'-0"		4.1	4.8	5.9				
14'-8"			4.6	5.7				
16'-0"			4.3	5.4				
17'-0"			4.2	5.1				
18'-2"			4.9					

1/4" ELCO PANELMATE (MALE OR FEMALE) ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3323 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.3	9.4	11.0	12.0			4.5	5.5	6.4	7.2	8.5	10.3
6'-0"	6.2	7.0	8.3	10.1				4.1	4.8	5.4	6.4	7.8
8'-0"	5.0	5.7	6.7	8.3					4.5	5.2	6.4	
10'-0"	4.3	4.9	5.7	7.0						4.5	5.4	
12'-0"		4.3	5.0	6.2							4.8	
14'-0"			4.5	5.5							4.3	
14'-8"			4.3	5.4							4.2	
16'-0"			4.1	5.0								
17'-0"				4.8								
18'-2"				4.6								

1/4" POWERS STEEL DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.1	9.2	10.8	12.0
6'-0"	6.0	6.9	8.1	9.9
8'-0"	4.9	5.6	6.6	8.1
10'-0"	4.2	4.8	5.6	6.9
12'-0"		4.2	4.9	6.0
14'-0"			4.4	5.4
14'-8"			4.2	5.2
16'-0"				4.9
17'-0"				4.7
18'-2"				4.6

3/8" POWERS STEEL DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	12.0	12.0	12.0	12.0
6'-0"	12.0	12.0	12.0	12.0
8'-0"	10.4	11.8	12.0	12.0
10'-0"	8.8	10.1	11.8	12.0
12'-0"	7.7	8.8	10.4	12.0
14'-0"	6.9	7.9	9.3	11.4
14'-8"	6.6	7.6	9.0	11.0
16'-0"	6.2	7.1	8.4	10.4
17'-0"	6.0	6.8	8.0	9.9
18'-2"	5.7	6.5	7.7	9.4

1/4" ELCO PANELMATE INSERT ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	2700 PSI MIN CONCRETE				HOLLOW CONCRETE BLOCK				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	7.7	8.8	10.3	12.0	5.1	5.8	6.8	8.3	5.2	5.9	7.0	8.5
6'-0"	5.8	6.6	7.7	9.5		4.3	5.1	6.2		4.4	5.2	6.4
8'-0"	4.7	5.4	6.3	7.7			4.1	5.1		4.2	5.2	
10'-0"	4.0	4.6	5.4	6.6				4.3			4.4	
12'-0"		4.0	4.7	5.8								
14'-0"			4.2	5.2								
14'-8"			4.1	5.0								
16'-0"				4.7								
17'-0"				4.5								
18'-2"				4.3								

1/4" POWERS POWER-STUD ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	4000 PSI MIN CONCRETE				GROUT-FILLED CONCRETE BLOCK			
	DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.0	9.1	10.7	12.0	5.1	5.8	6.8	8.3
6'-0"	6.0	6.8	8.0	9.8		4.3	5.1	6.2
8'-0"	4.9	5.5	6.5	8.0			4.1	5.1
10'-0"	4.1	4.7	5.5	6.8				4.3
12'-0"		4.1	4.9	6.0				
14'-0"			4.4	5.4				
14'-8"			4.2	5.2				
16'-0"				4.9				
17'-0"				4.7				
18'-2"				4.4				

1/4" POWERS HOLLOW-SET DROPIN ANCHOR SCHEDULE BUILD OUT TUBE MOUNT (IN. O.C.)

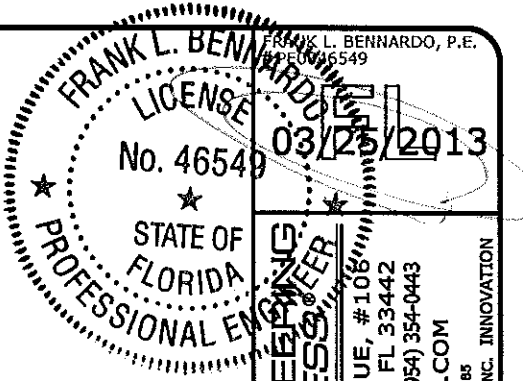
SPAN	4000 PSI MIN CONCRETE			
	DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	4.8	5.4	6.4	7.8
6'-0"		4.0	4.8	5.8
8'-0"				4.8
10'-0"				4.0

1/4" ELCO PANELMATE FEMALE ID ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	8.3	9.4	11.0	12.0			4.5	5.5	6.4	7.2	8.5	10.3
6'-0"	6.2	7.0	8.3	10.1				4.1	4.8	5.4	6.4	7.8
8'-0"	5.0	5.7	6.7	8.3					4.5	5.2	6.4	
10'-0"	4.3	4.9	5.7	7.0						4.5	5.4	
12'-0"		4.3	5.0	6.2							4.8	
14'-0"			4.5	5.5							4.3	
14'-8"			4.3	5.4							4.2	
16'-0"			4.1	5.0								
17'-0"				4.8								
18'-2"				4.6								

1/4" ELCO PANELMATE TVAS ANCHOR SCHEDULE - BUILD OUT TUBE MOUNT (IN. O.C.)

SPAN	3350 PSI MIN CONCRETE				HOLLOW AND GROUT-FILLED CONCRETE BLOCK				G=0.55 MIN. WOOD			
	DESIGN PRESSURE				DESIGN PRESSURE				DESIGN PRESSURE			
	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF	60 PSF	50 PSF	40 PSF	30 PSF
4'-0"	9.8	11.2	12.0	12.0			4.7	5.7	6.4	7.2	8.5	10.3
6'-0"	7.3	8.3	9.8	12.0				4.3	4.8	5.4	6.4	7.8
8'-0"	5.9	6.8	8.0	9.8					4.5	5.2	6.4	
10'-0"	5.0	5.8	6.8	8.3						4.5	5.4	
12'-0"	4.4	5.0	5.9	7.3							4.8	
14'-0"		4.5	5.3	6.5							4.3	
14'-8"		4.4	5.1	6.3							4.2	
16'-0"		4.1	4.8	5.9								
17'-0"			4.6	5.7								
18'-2"			4.4	5.4								



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-1004-02
Expiration Date 10/29/2015
By Healy
Miami Dade Product Control

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			07/16/12				
			03/22/13				

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SCALE: 1/2"
PAGE DESCRIPTION:

NOTE: SEE SHEET 6 FOR ANCHOR NOTES