

STRUCTURAL NOTES:

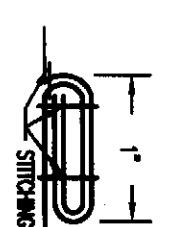
- THIS NON POROUS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014 (FIFTH EDITION) OF THE FLORIDA BUILDING CODE (FBC). THIS SYSTEM SHALL NOT BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (HVM-D/DV/ BROWARD COUNTIES), NOR ESSENTIAL FACILITIES. THE AGENCY FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609 OF THE ABOVE REFERENCED CODE, AND AS PER DCS 201, DCS 202 AND THE 203 PROTOCOLS AND ASTM E330-02, ASTM E1996-05 AND ASTM E1996-06. SEE LIST OF REPORTS ON SHEET 1/2.
- DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE TO SECTION 1609 OF THE FBC FOR A BASIC WIND SPEED (ALLOWABLE STRESS DESIGN) AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED. ULTIMATE DESIGN LOADS (UD) DETERMINED BY ASCE 7-10 SHALL BE REDUCED TO ALLOWABLE STRESS DESIGN LOADS (ASD) BY MULTIPLYING THE UD BY 0.6 TO OBTAIN THEM TO THE ASD PRESSURE RANGES SHOWN ON SHEET 1 AND 2. USE OF DIMENSIONALITY FACTOR Kd=0.85 IS ALLOWED.
- IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 WESLE TYPE "D" AS LISTED HEREIN.
- NO 33-1/2% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- THIS PRODUCT EVALUATION DOCUMENT (PED) DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN CONJUNCTION WITH THIS DOCUMENT.
- THE CONTRACTOR AND / OR PERMIT HOLDER IS TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS SYSTEM, INCLUDING VERIFYING THE AGENCY OF THE EXISTING STRUCTURE TO WHICH AND THE NEW SUPERIMPOSED LOADS SHOWN BELOW AND THE SOUNDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (EOR) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE PED ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE PED ENGINEER SHALL SUBMIT TO THIS ENGINEER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
- THIS PED SHALL BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
- THIS WIND ABATEMENT SYSTEM IS INTENDED FOR USE ONLY DURING HURRICANE OR OTHER TROPICAL STORM WEATHERS. SEASONAL OR PERMANENT INSTALLATION OR STORAGE OF THIS WIND ABATEMENT SYSTEM IN AREAS OF PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR OTHER WEATHERING CONDITIONS MAY CAUSE MATERIAL DEGRADATION OR OTHERWISE IMPAIR THEIR AGENCY AS AN IMPACT RESISTANT SYSTEM.
- LIMITATIONS OF USE
PER FBC 2010 NO MINIMUM SEPARATION FROM GLASS IS REQUIRED.
THE MAXIMUM SIZE SHALL BE 80 PSF MAX. PRESSURE @216 INCHES MAXIMUM SPAN. SEE TABLES ON SHEET 1/2 AND 2/2.
- RESERVED.
- ALL BOLTS TO BE STAINLESS STEEL 304 OR 316 SERIES OR CORROSION RESISTANT COATED CARBON STEEL WITH A 50 KSI YIELD STRENGTH AND A 90 KSI TENSILE STRENGTH.
- ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL WITH A MINIMUM 36 KSI YIELD STRENGTH.
- ANCHORS TO STRUCTURE (WALL / FLOOR / CEILING / SYSTEM) SHALL BE INSTALLED PER MANUFACTURERS' RECOMMENDATIONS AND AS FOLLOWS:
 A. CONCRETE BLOCK MASONRY (ASTM C-90)
 TYPICAL ANCHORS (TYP BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TEXTRON) - 1/4" N. DIA.
 I. MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TYPICAL ANCHORS AND ELCO PANELMATES IS 1 3/4".
 II. MINIMUM EMBEDMENT INTO STUCCO SHALL BE PERMITTED.
 III. PAVERS, BRICKS OR OTHER PRE-CAST PRODUCTS LOCATED ON THE EXISTING STRUCTURE WALL OR FLOOR SHALL HAVE ANCHORS OF SUFFICIENT LENGTH TO PROPERLY ATTACH TO THE PRIMARY STRUCTURE BEHIND IT.
 IV. MINIMUM EDGE DISTANCE = 3.0"
 B. POURED CONCRETE (f'c=3000 PSI MIN.)
 TYPICAL ANCHORS (TYP BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TEXTRON) - 1/4" N. DIA.
 I. MINIMUM EMBEDMENT INTO POURED CONCRETE FOR TYPICAL ANCHORS AND ELCO PANELMATES IS 1 3/4".
 II. NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. BOLTS TO BE 1/4" - 20 X 1 3/4" FOR STUCCO, 1 1/4" WITH NO STUCCO.
 III. PAVERS, BRICKS OR OTHER PRE-CAST PRODUCTS LOCATED ON THE EXISTING STRUCTURE WALL OR FLOOR SHALL HAVE ANCHORS OF SUFFICIENT LENGTH TO PROPERLY ATTACH TO THE PRIMARY STRUCTURE BEHIND IT.
 IV. MINIMUM EDGE DISTANCE = 3.0"
 C. WOOD (Nominal 2x4(min) Southern Pine® Se=0.55 OR GREATER)
 TYPICAL ANCHORS (TYP BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TEXTRON) - 1/4" N. DIA.
 I. MINIMUM EDGE DISTANCE = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"). MINIMUM EMBEDMENT = 1-1/2"
 II. MINIMUM EDGE DISTANCE = 3.0"
- MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 2/2
- SCREEN PANEL'S MANUFACTURER LABEL SHALL BE PLACED ON A REGULAR AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING.
 HURRICANE FABRIC, LLC
 PO BOX 50153, CLAYTON, MO 63105
 FLORIDA PRODUCT APPROVAL NUMBER FL-XXXX. OPENING NO.: XX
- THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS.

FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" ELCO PANELMATE PRO. MALE & FEMALE (INCHES)

SCREEN SPAN	FILLED CMU (1900 PSI)			CONCRETE (4000 PSI)			HOLLOW CMU			TIMBER		
	60	50	40	60	50	40	60	50	40	60	50	40
4'-0"	12	12	12	12	12	12	12	12	12	12	12	12
6'-0"	11	12	12	12	12	12	12	12	12	12	12	12
8'-0"	7	8	10	12	8	9	11	12	8	9	10	12
10'-0"	6	7	8	10	7	8	9	11	7	8	9	10
12'-0"	5	6	7	9	6	7	8	10	6	7	8	9
14'-0"	4	5	6	7	5	6	7	9	5	6	7	8
16'-0"	3	4	5	6	4	5	6	8	4	5	6	7
18'-0"	2	3	4	5	3	4	5	7	3	4	5	6

FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 3/8" DROP-IN ANCHOR WITH SPOWELK BOLT (INCHES)

SCREEN SPAN	FILLED CMU (1900 PSI)			CONCRETE (4000 PSI)			HOLLOW CMU			TIMBER		
	60	50	40	60	50	40	60	50	40	60	50	40
4'-0"	12	12	12	12	12	12	12	12	12	12	12	12
6'-0"	12	12	12	12	12	12	12	12	12	12	12	12
8'-0"	12	12	12	12	12	12	12	12	12	12	12	12
10'-0"	12	12	12	12	12	12	12	12	12	12	12	12
12'-0"	10	12	12	12	12	12	12	12	10	12	12	12
14'-0"	9	10	12	12	11	12	12	12	9	10	12	12
16'-0"	8	9	10	12	8	10	11	12	8	9	11	12
18'-0"	7	8	9	11	7	9	10	12	7	8	10	12

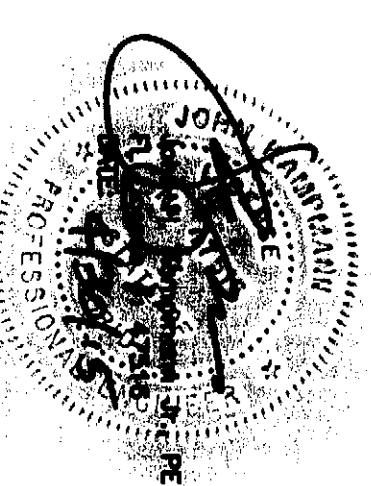


SPICE DETAIL

RETENTION CLIP END CONNECTOR
 ROOM ENGINEERING PLASTICS - POLYURETHANE 66
 FABRIC SPECIFICATION:
 FIBER CONTENT: TEXTILE FABRIC
 CONSTRUCTION: 20 X 20 WEAVE
 FINISH: RESIN COATED
 WEIGHT (ASTM D-3776): 9.0 -02/SQUARE YARD
 TENSILE STRENGTH (SWB METHOD, ASTM D-4632): WARP - 570 LB., WEFT - 570 LB.
 BURST STRENGTH (ASTM D - 3786): 1,000 PSI
 ABRASION RESISTANCE (ASTM D -4989) 50X STRENGTH RETAINED
 SEWING:
 ONLY SEWING IS AT SPICE
 EDGES:
 NO SEWING AT EDGES

**EVALUATION BASED ON:
 PENETRATION TESTING LABORATORY, INC**
 LAB NO.: 6418 DATED 12/7/2010
 ASTM E330-02 - WINDFORM STATIC LOADS
 ASTM E1996-05 & ASTM E1996-06 - LARGE WESLE TYPE
 OF IMPACT RESISTANCE & CYCLIC LOADING
 PERFORMANCE
 LAB NO.: 5804 DATED 01/13/2009
 THIS 202 - WINDFORM STATIC LOADS
 THIS 201, THIS 202 - LARGE WESLE IMPACT RESISTANCE &
 CYCLIC LOADING PERFORMANCE

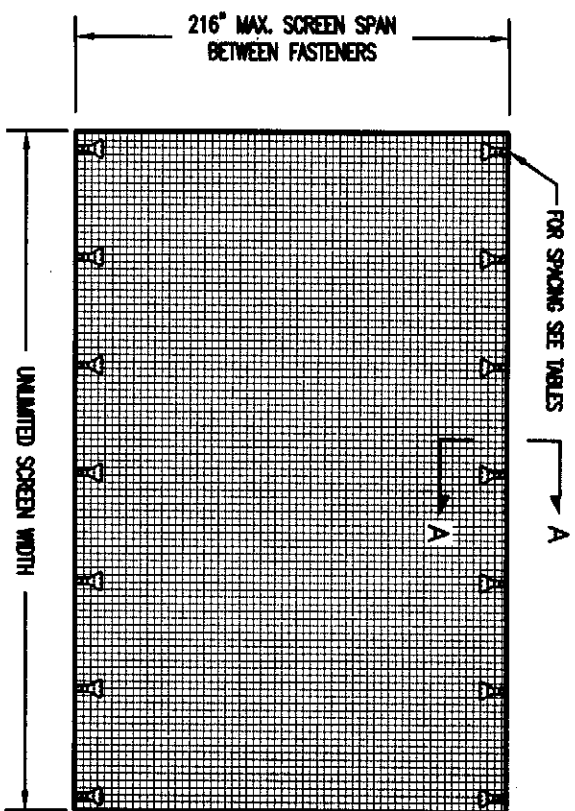
LIST OF REPORTS



2014 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 5TH EDITION

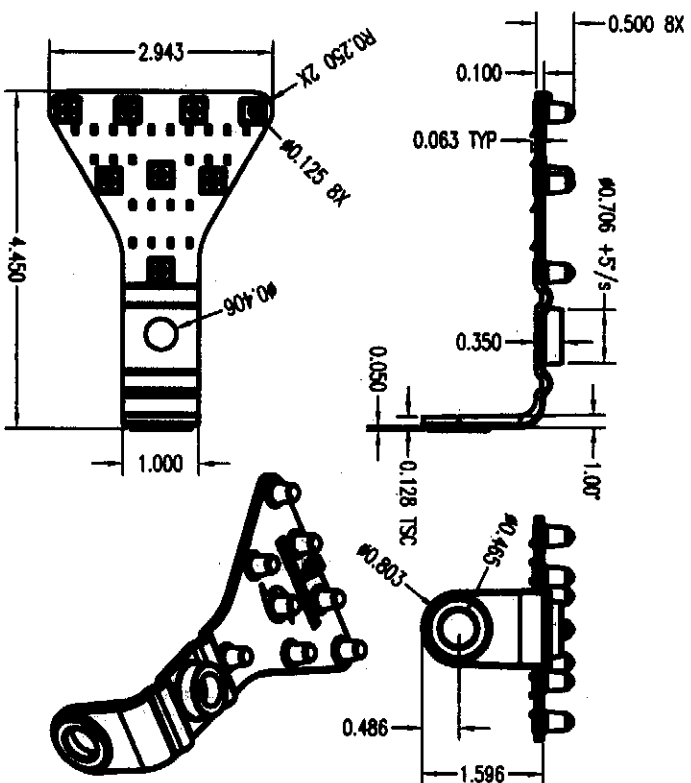
Description: ASTRO GUARD Wind Abatement System	Project Name: HURRICANE FABRIC LLC PO BOX 50153 CLAYTON, MO 63105 PHONE: (238)888-0088 WWW.HURRICANEFABRIC.COM	REV: 1 DESCRIPTION: xx/xx/xx-RESERVED	MEA ENGINEERS, INC. 1501 S. W. 10th St. Ft. Lauderdale, FL 33304 Phone: (954) 571-1100 Fax: (954) 571-1101
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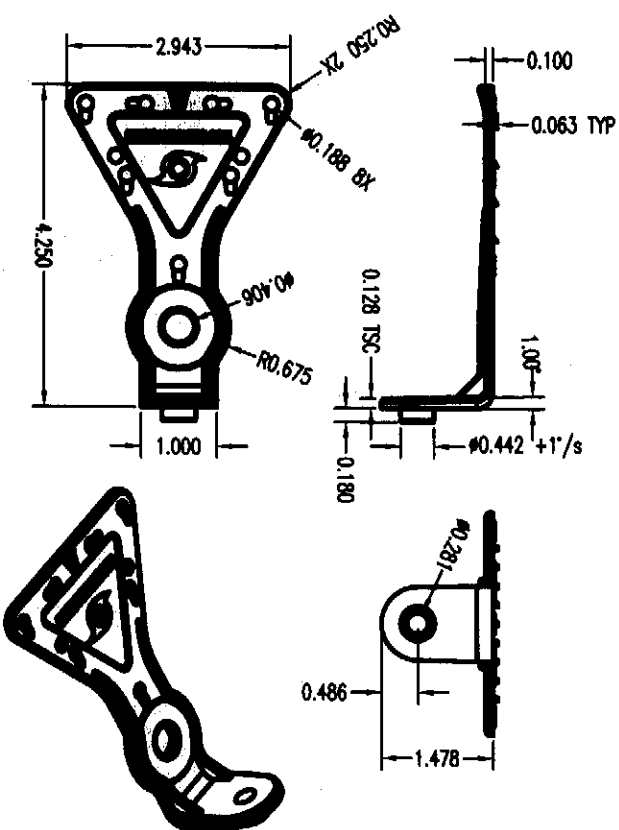


TYPICAL TWO-SIDED INSTALLATION
VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.

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



BOTTOM MOUNTING CLIP DETAILS
INSIDE OR OUTSIDE MOUNT INSTALLATION - N.T.S.



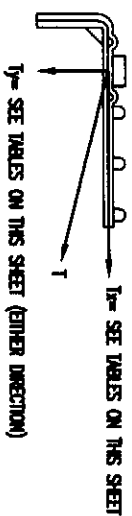
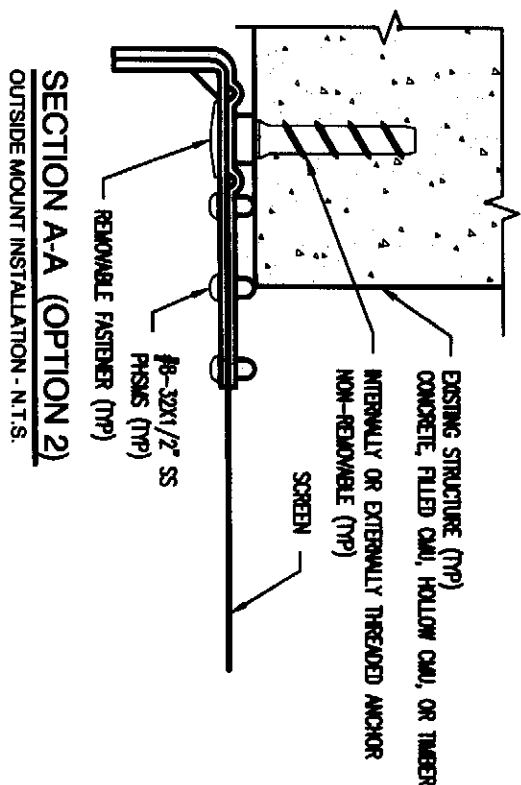
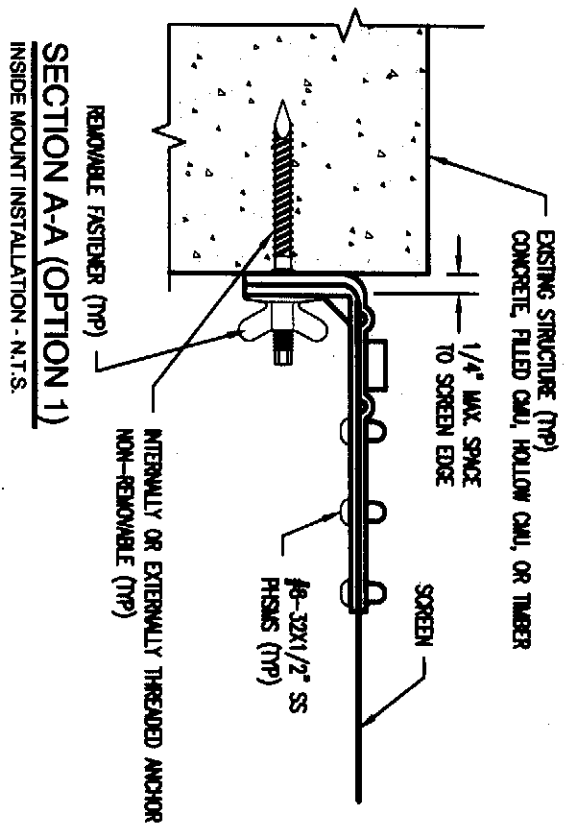
TOP MOUNTING CLIP DETAILS
INSIDE OR OUTSIDE MOUNT INSTALLATION - N.T.S.

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

SPAN (INCHES)	PRESSURE (PSF)					
	60	55	50	45	40	35
216	1134	1070	1004	936	866	792
192	1020	962	903	842	778	712
168	905	854	801	747	690	631
144	744	702	659	614	568	519
120	651	615	577	538	497	455
96	553	521	489	456	422	386
72	353	333	312	291	269	246
48	254	240	225	210	194	178

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

SPAN (INCHES)	PRESSURE (PSF)					
	60	55	50	45	40	35
216	540	495	450	405	360	315
192	480	440	400	360	320	280
168	420	385	350	315	280	245
144	360	330	300	270	240	210
120	300	275	250	225	200	175
96	240	220	200	180	160	140
72	180	165	150	135	120	105
48	120	110	100	90	80	70



2014 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 5TH EDITION



Description:
ASTRO GUARD
Wind Abatement System

Project Name:
HURRICANE FABRIC LLC
PO BOX 80183
CLAYTON, MO 63108
PHONE: (238)999-0088
WWW.HURRICANEFABRIC.COM

REV.	DESCRIPTION
1	xx/xx/xx-RESERVED

CA #6782
WWW.MEAENGINEERS.COM

MEA
ENGINEERS, INC.

8466 Linton Drive
San Diego, Florida 34823
(941) 822-3884 CA-6072

2/12

Project: JK
E15-0226
Date: 4/30/15