

**STRUCTURAL NOTES:**

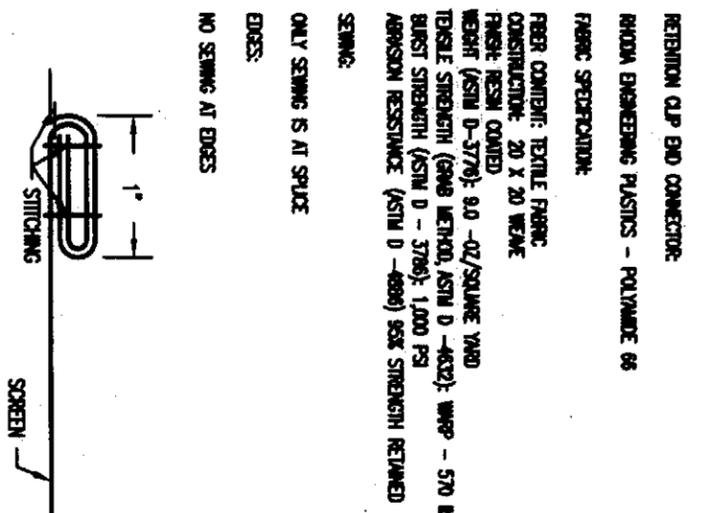
- THIS NON POROUS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2017 (5TH EDITION) OF THE FLORIDA BUILDING CODE (FBC). THIS SYSTEM SHALL NOT BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (WIND-SPEED / GROUND CORRECTED), NOR ESSENTIAL FACILITIES. THE AGENCY FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH THE ABOVE REFERENCED CODE, AND AS PER TAB 201, TAB 202 AND TAB 203 PROTOCOLS AND ASTM E330-02, ASTM E1996-05 AND ASTM E1996-05. 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 COMPARE THEM TO THE ASD PRESSURE RANGES SHOWN ON SHEET 1 AND 2. USE OF MECHANICAL FACTOR Kd=0.8 IS ALLOWED.
- IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 WIND TYPE "B" 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 REPAIRS 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 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 WARNINGS, 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 AFFECT THEIR ADEQUACY AS AN IMPACT RESISTANT SYSTEM.
- LIMITATIONS OF USE  
 9.1. LAMINATIONS OF USE  
 PER FBC 2017 NO MINIMUM SEPARATION FROM GLASS IS REQUIRED.  
 THE MINIMUM SIZE SHALL BE 80 PSF MAX. PRESSURE @216 INCHES WINDSPAN SPAN. SEE TABLES ON SHEET 1/2 AND 2/2.
- RESERVED.
- ALL SCREWS 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 WALE & FEMALE FASTENERS (ELOO TEXTRON) - 1/4" N. DIA.  
 1. MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TYPICAL ANCHORS AND ELOO PANELMATES IS 1 3/4" N.  
 NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. SCREWS TO BE 1/4"-20 X 1 3/4" FOR STUCCO, 1 1/4" WITH NO STUCCO.  
 2. PANELS, 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.  
 3. MINIMUM EDGE DISTANCE = 3.0"  
 B. WOOD (Minimum 2x4(min) Southern Pine "Sd-0.55 OR GREATER)  
 TYPICAL ANCHORS (TYP BUILDER) OR PANELMATE WALE & FEMALE FASTENERS (ELOO TEXTRON) - 1/4" N. DIA.  
 1. MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TYPICAL ANCHORS AND ELOO PANELMATES IS 1 1/4" N.  
 2. MINIMUM EDGE DISTANCE = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"), MINIMUM EMBEDMENT = 1-1/2"  
 C. WOOD (Minimum 2x4(min) Southern Pine "Sd-0.55 OR GREATER)  
 TYPICAL ANCHORS (TYP BUILDER) OR PANELMATE WALE & FEMALE FASTENERS (ELOO TEXTRON) - 1/4" N. DIA.  
 1. MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TYPICAL ANCHORS AND ELOO PANELMATES IS 1 1/4" N.  
 2. MINIMUM EDGE DISTANCE = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"), MINIMUM EMBEDMENT = 1-1/2"  
 15. SCREEN PANEL'S MANUFACTURER LABEL SHALL BE PLACED ON A READY AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:  
 HURRICANE FABRIC, LLC  
 PO BOX 50153, CLAYTON, MO 63105  
 FLORIDA PRODUCT APPROVAL NUMBER: FL-300X. OPENING NO.: XX  
 16. 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" ELOO PANELMATE PRO, MALE & FEMALE (INCHES)

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

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

SCREEN SPAN	FILED CMU (1900 PSF)			CONCRETE (4000 PSF)			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	11	12
8'-0"	12	12	12	12	12	12	12	12	12	12	11	12
10'-0"	12	12	12	12	12	12	12	12	12	12	11	12
12'-0"	10	12	12	12	12	12	9	10	10	12	12	12
14'-0"	9	10	12	12	11	12	8	9	10	12	12	12
16'-0"	8	9	10	12	11	12	7	8	9	11	12	12
18'-0"	7	8	9	11	10	12	6	7	8	10	12	12



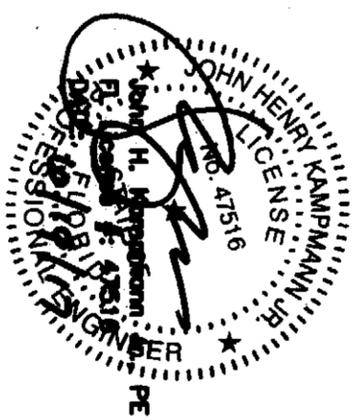
**SPICE DETAIL**

EVALUATION BASED ON:  
 FENESTRATION TESTING LABORATORY, INC  
 LAB NO.: 6418 DATED 12/7/2010

ASTM E330-02 - WINDFORM STORM LOADS  
 ASTM E1996-05 & ASTM E1996-05 - LARGE MISSILE TYPE "Y" IMPACT RESISTANCE & CYCLIC LOADING PERFORMANCE  
 LAB NO.: 5804 DATED 01/13/2009

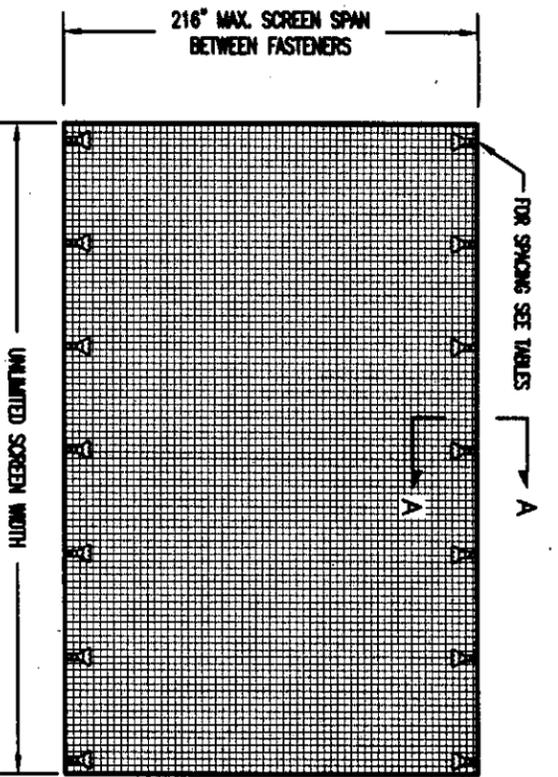
TAB 202 - WINDFORM STORM LOADS  
 TAB 201, TAB 202 - LARGE MISSILE IMPACT RESISTANCE & CYCLIC LOADING PERFORMANCE

**LIST OF REPORTS**



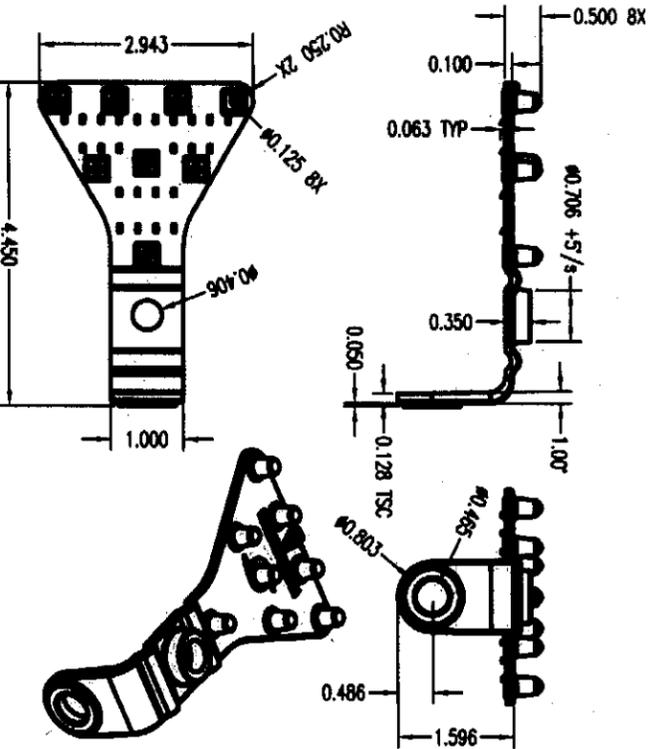
2017 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 5TH EDITION

Project Name: <b>HURRICANE FABRIC LLC</b> PO BOX 50153 CLAYTON, MO 63105 PHONE: (238)888-0088 WWW.HURRICANEFABRIC.COM	Description: <b>ASTRO GUARD</b> Wind Abatement System	REV: 1 DESCRIPTION: xx/xx/xx-RESERVED	MEAE ENGINEERS, INC. 888-444-2222 1015 S. Main St. Clayton, MO 63105 Phone: (238) 888-0088
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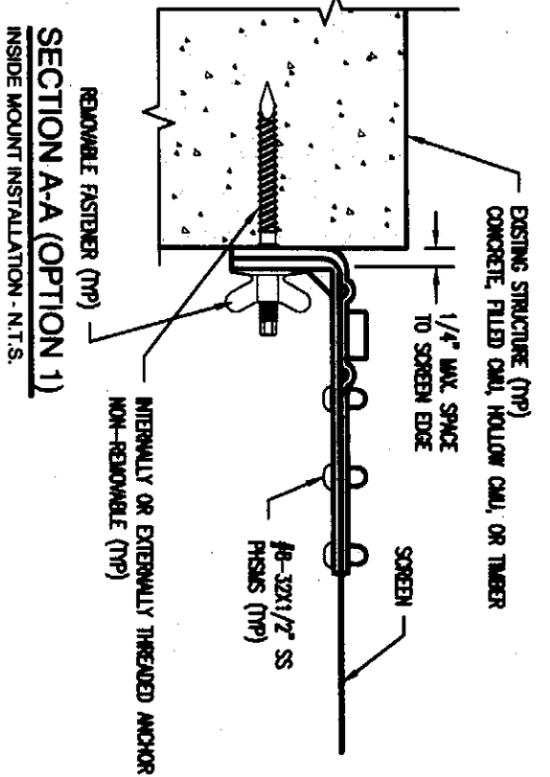


**TYPICAL TWO-SIDED INSTALLATION**  
VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.

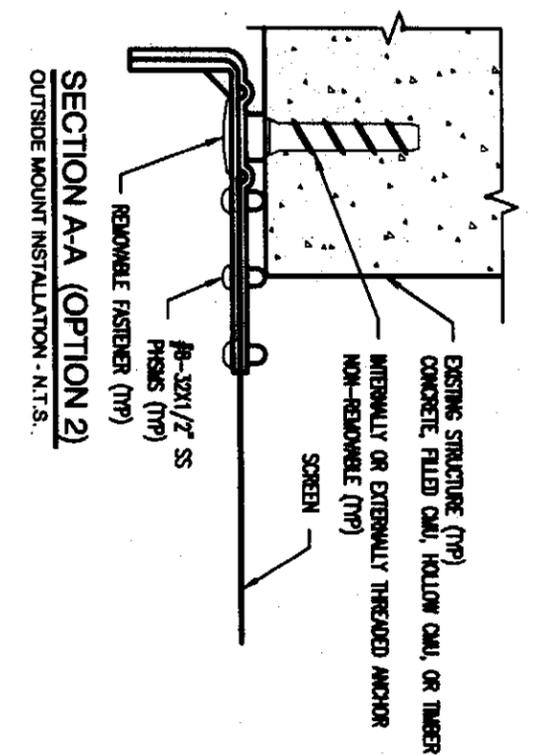
NOTE:  
PANELS CAN BE ATTACHED ON THREE OR FOUR SIDES.  
FOR FOUR SIDE ATTACHMENT THE SPAN IS IN THE SHORT  
DIMENSION BETWEEN FASTENERS



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



**SECTION A-A (OPTION 1)**  
INSIDE MOUNT INSTALLATION - N.T.S.



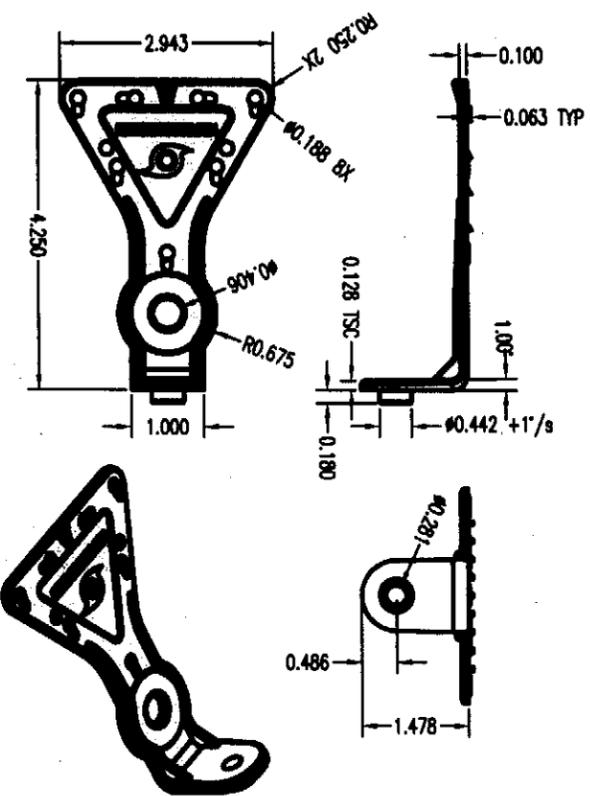
**SECTION A-A (OPTION 2)**  
OUTSIDE MOUNT INSTALLATION - N.T.S.

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

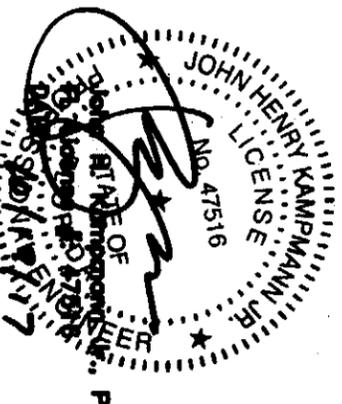
SPAN (INCHES)	PRESSURE (PSF)					
	60	55	50	45	40	35
216	1134	1070	1004	936	866	792
192	1020	962	903	842	778	712
168	905	854	801	747	690	631
144	744	702	659	614	568	519
120	651	615	577	538	497	455
96	553	521	489	456	422	386
72	353	333	312	291	269	246
48	254	240	225	210	194	178

**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



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



2017 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 8TH EDITION

Description: <b>ASTRO GUARD</b> Wind Abatement System		Project Name: <b>HURRICANE FABRIC LLC</b> PO BOX 80183 CLAYTON, MO 63108 PHONE: (314)886-0088 WWW.HURRICANEFABRIC.COM		REV: 1 DESCRIPTION: xx/xx/xx--RESERVED	MEA ENGINEERS, INC. 8888 Lantana Drive Sarasota, Florida 34233 (841) 822-3884 CA-8072
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