

**STRUCTURAL NOTES:**

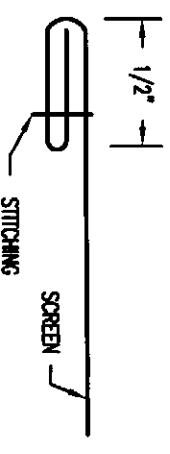
- THIS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2007 EDITION OF THE FLORIDA BUILDING CODE (FBC). THIS SYSTEM MAY BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) WHICH IS MALE-ONCE AND BROWARD COUNTIES. THE Adequacy FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 OF THE ABOVE REFERENCED CODE, AND AS PER TAB 201, 202 AND 203 AT PENETRATION TESTING LABORATORY, INC. PER THEIR REPORT(S) LISTED HEREIN.
- DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE TO SECTION 1609 OF THE FBC AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED. WHEN CALCULATING PRESSURES PER ASCE 7, USE OF DIRECTIONALITY FACTOR Kd=0.85 IS ALLOWED.
- IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 AS PER PENETRATION TESTING LABORATORY, INC. FILE # 08-541 LAB NUMBER 5777
- NO 33-1/32 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 Adequacy OF THE EXISTING STRUCTURE TO WITHSTAND 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 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 IMPAIR THEIR Adequacy AS AN IMPACT RESISTANT SYSTEM.
- LIMITATIONS OF USE:  
FOR PRODUCT INSTALLED WITHIN THE HIGH VELOCITY HURRICANE ZONE, THE MINIMUM SEPARATION FROM GLASS SHALL BE 1 INCH AT MAXIMUM DEFLECTION. THE MAXIMUM SIZE SHALL BE 80 PSF MAX. PRESSURE @214 INCHES MAXIMUM WIDTH. SEE TABLE ON SHEET 1/2.
- RESERVED.
- ALL SCREENS 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)  
 TAPCON ANCHORS (TIV BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TETRON) - 1/4" N. DIA.  
 I. MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TAPCON ANCHORS AND ELCO PANELMATES IS 1 3/4".  
 NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. SCREENS TO BE 1/4"-20 X 1 3/4" FOR STUCCO, 1 1/4" WITH NO STUCCO.  
 II. PAINERS, 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.  
 III. MINIMUM EDGE DISTANCE = 3.0"  
 B. POURED CONCRETE (f'c=3000 PSI MIN.)  
 TAPCON ANCHORS (TIV BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TETRON) - 1/4" N. DIA.  
 I. MINIMUM EMBEDMENT INTO POURED CONCRETE FOR TAPCON ANCHORS AND ELCO PANELMATES IS 1 3/4".  
 NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. SCREENS TO BE 1/4"-20 X 1 3/4" FOR STUCCO, 1 1/4" WITH NO STUCCO.  
 II. PAINERS, 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.  
 III. MINIMUM EDGE DISTANCE = 3.0"  
 C. WOOD (Minimum 2x4(min) Southern Pine "Sd=0.55 OR GREATER)  
 TAPCON ANCHORS (TIV BUILDER) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TETRON) - 1/4" N. DIA.  
 I. MINIMUM EDGE DISTANCE = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"), MINIMUM EMBEDMENT = 1-1/2"
- MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 2/2
- 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.COM LLC  
 PO BOX 50153, CLAYTON, MO 63105  
 FLORIDA PRODUCT APPROVAL NUMBER: F-1-XXXX OPENING NO.: XX
- THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS.

SCREEN SPAN	FILLED MASONRY (1900psf)				CONCRETE (4000psf)				HOLLOW MASONRY				TIMBER			
	80	60	50	40	80	60	50	40	80	60	50	40	80	60	50	40
4'-0"	12	12	18	18	12	16	18	18	10	12	15	16	11	12	14	15
6'-0"	9	12	15	16	10	12	15	18	6	8	9	11	5	6	8	10
8'-0"	8	9	12	12	8	10	12	15	5	6	7	9	4	5	6	8
10'-0"	6	8	9	12	7	9	10	12	4	5	6	7	-	4	5	6
12'-0"	5	8	8	9	6	8	8	10	-	4	5	6	-	4	4	5
14'-0"	5	6	7	8	5	7	7	8	-	4	4	5	-	4	4	4
16'-0"	4	5	6	6	5	6	7	8	-	4	4	4	-	4	-	4
18'-0"	4	5	6	6	4	5	6	7	-	4	-	4	-	-	-	-

FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" ELCO PANELMATE PRO, MALE, & FEMALE (INCHES) SEE NOTES FOR EMBEDMENT AND EDGE DISTANCE

**RETENTION CLIP END CONNECTOR:**

RHOVA ENGINEERING PLASTICS - POLYAMIDE 66  
 FABRIC SPECIFICATION:  
 FIBER CONTENT: TEXTILE FABRIC  
 CONSTRUCTION: 3/4 BASKET-WEAVE, WARP - 60 ENDS PER INCH, WERE - 50 ENDS PER INCH  
 FRESH CALENDERED  
 WEIGHT (ASTM D-3776): 7.6 -oz/SQUARE YARD  
 SEWAGE: HEAT CUT OR WOVEN  
 TENSILE STRENGTH (GRAB METHOD, ASTM D -4632): WARP - 495 lbs, WET - 425 lbs.  
 BURST STRENGTH (ASTM D - 3786): 825 PSI  
 TEAR STRENGTH (ASTM D - 4533): WARP - 165 lbs, WET - 170 lbs.  
 ABRASION RESISTANCE (ASTM D -4886) 95% STRENGTH RETAINED  
 PUNCTURE STRENGTH (ASTM D -4833) 190 lbs.  
 UV RETENTION (ASTM D-6154): 77%  
 SEWING:  
 (1) SINGLE ROW OF STRAIGHT STITCH AT INTERVALS OF 1/2" MAX USING 138 DENIER POLYESTER THREAD.  
 EDGES:  
 1/2" TRI-FOLDED ALL AROUND THE PERIMETER ONE CONTINUOUS SEWING



**STITCHING DETAIL**  
 1/2" SINGLE STITCH WEAWE SCREEN - N.T.S.

SCREEN SPAN	FILLED MASONRY (1900psf)				CONCRETE (4000psf)				HOLLOW MASONRY			
	80	60	50	40	80	60	50	40	80	60	50	40
4'-0"	18	18	18	18	18	18	18	18	18	18	18	18
6'-0"	15	18	18	18	16	18	18	18	12	15	18	18
8'-0"	12	15	18	18	13	16	18	18	10	12	15	18
10'-0"	10	13	15	18	11	14	16	18	9	11	12	15
12'-0"	9	12	13	16	10	12	12	16	8	10	11	12
14'-0"	8	10	11	14	9	11	12	14	7	9	10	11
16'-0"	7	9	10	12	8	10	11	12	6	8	9	10
18'-0"	7	8	9	11	8	9	10	11	6	7	8	9

FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 3/8" DROP-IN ANCHOR WITH SIDEWALK BOLT (INCHES) 1-1/2" EMBEDMENT 12d EDGE DISTANCE

MINIMUM SEPARATION FROM GLAZING (including installation fabric slack)	80 PSF				60 PSF				50 PSF				40 PSF			
	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in	defl. in
4	6.6	5.3	4.6	3.8	6.6	5.3	4.6	3.8	6.6	5.3	4.6	3.8	6.6	5.3	4.6	3.8
6	9.9	8.0	6.9	5.8	9.9	8.0	6.9	5.8	9.9	8.0	6.9	5.8	9.9	8.0	6.9	5.8
8	13.2	10.7	9.1	7.7	13.2	10.7	9.1	7.7	13.2	10.7	9.1	7.7	13.2	10.7	9.1	7.7
10	16.5	13.3	11.4	9.6	16.5	13.3	11.4	9.6	16.5	13.3	11.4	9.6	16.5	13.3	11.4	9.6
12	19.8	16.0	13.7	11.5	19.8	16.0	13.7	11.5	19.8	16.0	13.7	11.5	19.8	16.0	13.7	11.5
14	25.0	21.0	18.5	16.0	25.0	21.0	18.5	16.0	25.0	21.0	18.5	16.0	25.0	21.0	18.5	16.0
16	30.5	26.4	24.0	22.5	30.5	26.4	24.0	22.5	30.5	26.4	24.0	22.5	30.5	26.4	24.0	22.5
18	37.5	31.5	29.0	27.6	37.5	31.5	29.0	27.6	37.5	31.5	29.0	27.6	37.5	31.5	29.0	27.6

**MINIMUM SEPARATION FROM GLAZING**  
 (including installation fabric slack)

John A. Kompmann Jr., PE  
 License # 47516  
 DATE: 4/13/09

FBC (HIGH VELOCITY HURRICANE ZONE)

CA 46782  
 WWW.MEAENGINEERS.COM

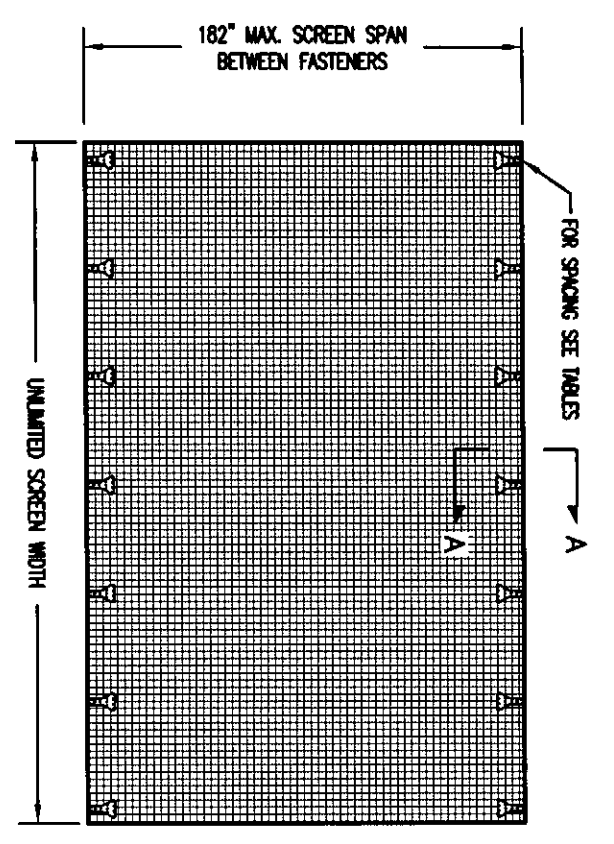
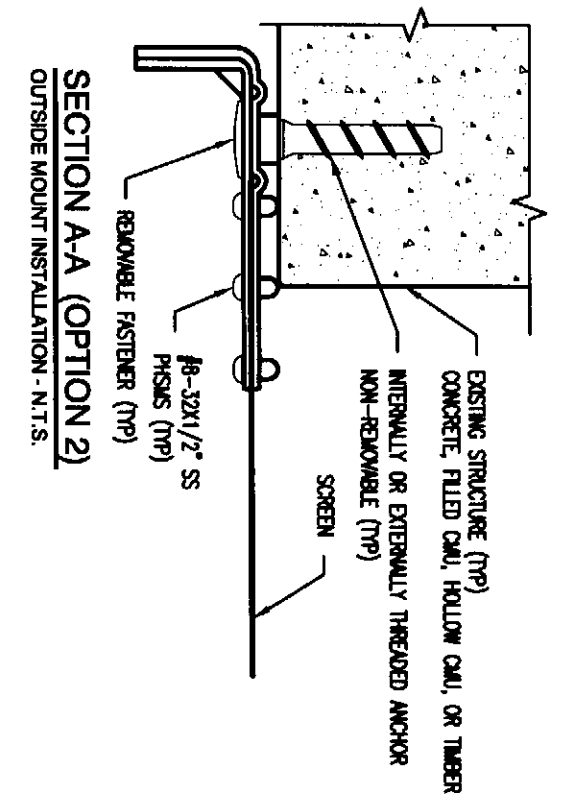
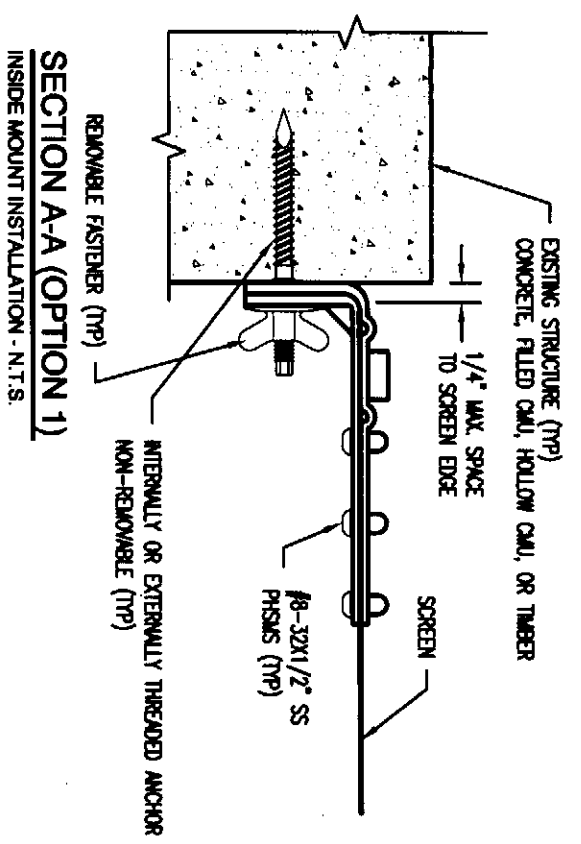
**MEA ENGINEERS, INC.**  
 5656 Lorton Drive  
 Suite 100  
 Houston, TX 77055  
 (281) 422-3884 CA-6072

REV.	DESCRIPTION
1	XX/XX/XX - RESERVED.

**HURRICANE FABRIC.COM LLC**  
 PO BOX 50153  
 CLAYTON, MO 63105  
 PHONE: (238) 699-0099  
 WWW.HURRICANE7FABRIC.COM

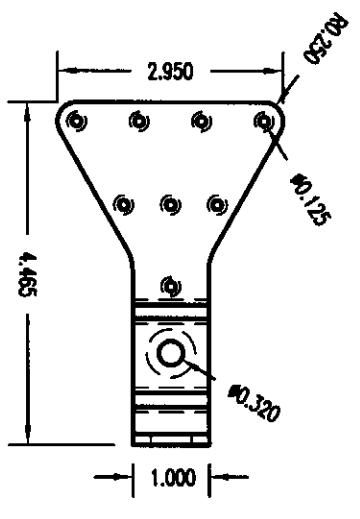
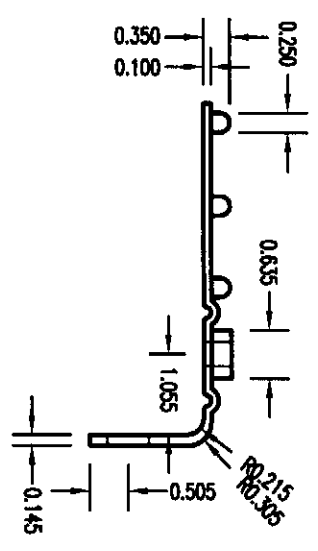
**HURRICANE FABRIC.COM**  
 Wind Abatement System

Project Name: JK  
 Project #08-1005  
 Scale: NTS  
 Date: 03/06/09  
 Sheet No: 1/2

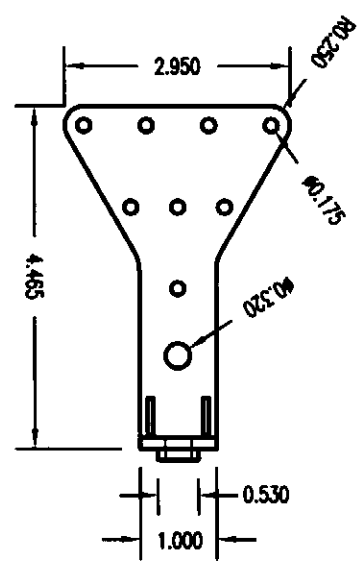
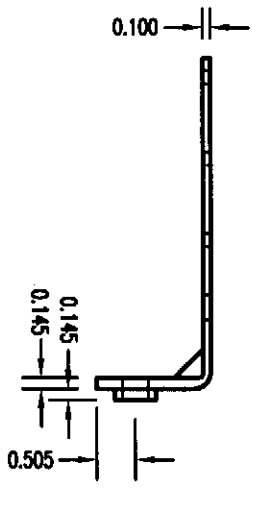


NOTE:  
PANELS CAN BE ATTACHED ON THREE OR FOUR SIDES.  
FOR FOUR SIDE ATTACHMENT THE SPAN IS IN THE SHORT  
DIMENSION BETWEEN FASTENERS

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



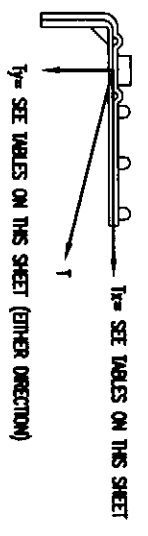
BOTTOM MOUNTING CLIP DETAILS  
INSIDE OR OUTSIDE MOUNT INSTALLATION - N.T.S.



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

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM			
SCREEN SPAN	T <sub>x</sub> = PARALLEL LOADS (PLF)		
	80	60	50
4'-0"	240	270	190
6'-0"	510	400	320
8'-0"	630	510	430
10'-0"	750	600	520
12'-0"	870	620	600
14'-0"	930	765	680
16'-0"	1030	870	750
18'-0"	1067	907	808

LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM			
SCREEN SPAN	T <sub>y</sub> = PERPENDICULAR LOADS (PLF)		
	80	60	50
4'-0"	160	120	100
6'-0"	240	180	150
8'-0"	320	240	200
10'-0"	400	300	250
12'-0"	480	360	300
14'-0"	560	420	350
16'-0"	640	480	400
18'-0"	713	535	446



FBC (HIGH VELOCITY HURRICANE ZONE)

CA #6732  
WWW.MEAENGINEERS.COM

HURRICANE FABRIC.COM  
Wind Abatement System

HURRICANE FABRIC.COM LLC  
PO BOX 50153  
CLAYTON, MO 63105  
PHONE: (239)699-0099  
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REV.	DESCRIPTION
1	XX/XX/XX - RESERVED.

JOHN T. KEMPENANN JR., PE  
FL License #: 47516  
DATE: 4/13/09

Project: JK  
Scale: NTS  
Date: 03/06/09  
2/2