

**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 HAWAII-DOE 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 TABS 201, 202 AND 203 AS LISTED HEREIN, AS WELL AS ADDITIONAL STANDARDS AS MENTIONED ELSEWHERE ON SHEET 1 OF 7.
- DESIGN PRESSURE REQUIREMENTS OF A SPECIFIC SITE SHALL BE DETERMINED BY OTHERS IN CONFORMANCE WITH 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 LISTED HEREIN.
- NO 33-1/3X 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 SUPERPOSED 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 THE 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 50 PSF MAX. PRESSURE @196 INCHES MAXIMUM WIDTH. SEE TABS ON SHEETS 1, 3, 6, & 7 OF 7.
- FOR DETERMINING INTERNAL PRESSURE IN THE ABOVE REFERENCED CODES, THIS PRODUCT IS CLASSIFIED AS NON-POROUS WITH A POROSITY OF LESS THAN 10% FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT. SCREEN PANELS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS.
- ALL SCREENS TO BE STAINLESS STEEL 304 OR GALVANIZED A307 STEEL.
- ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL.
- SUPPORT BRACKETS AND ANCHORS:  
A. ANCHORS INTO THE SUPPORT SUBSTRUCTURE (WALL, CEILING, BEAMS AND FLOORS) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.  
B. THE ANCHOR SPACING SHOWN ON SHEETS 4, 5, 6, & 7 OF 7, INDICATED FOR A 1/4" AND 3/8" NCH DIAMETER, REFER TO CENTER OF SUPPORTING BRACKETS.  
C. THE ANCHOR SPACING CHARTS ARE BASED ON A REMOVAL BRACKET SYSTEM USING WALE PANEL MATES WITH WING NUTS, FEMALE PANEL MATES, SCAMM'S AND DROP-IN ANCHORS WITH SIDEWALK BOLTS. TAPCONS OF THE SAME SIZE CAN BE SUBSTITUTED FOR PERMANENT BRACKET INSTALLATIONS.  
D. ANCHOR MINIMUM EMBEDMENT AND EDGE DISTANCES:  
E. NO EMBEDMENT INTO NON-STRUCTURAL MATERIAL SUCH AS STUCCO, SINKING AND PAPERS SHALL BE INCLUDED AS PART OF THE EMBEDMENT REQUIREMENT.
- MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEETS 4, 5, 6 & 7 OF 7.
- SCREEN PANEL'S MANUFACTURER LABEL SHALL BE PLACED ON A READILY AND VISIBLE LOCATION ON THE PANEL. ONE LABEL SHALL BE PLACED FOR EVERY OPENING. LABEL SHALL READ AS FOLLOWS:  
ULTRATEK WORLDWIDE INC.  
3801 N. Washington Blvd.  
Sarasota, FL 34234  
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.

SUBSTRUCTURE	EMBEDMENT	EDGE DISTANCE
HOLLOW BLOCK	1-1/4" NCH	12" 0
GRAOUT FILLED OR KSI CONCRETE	1-3/4" NCH	12" 0
4 KSI CONCRETE OR 2 KSI CONCRETE	1-3/4" NCH	12" 0
WOOD OR TIMBER	8" 0	3/4" NCH

SPAN (INCHES)	LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM TX = PARALLEL LOADS (PLF)				
	60	55	50	45	40
196	918.6	866.8	813.5	759.3	701.0
168	814.0	768.1	720.8	671.9	621.1
144	727.1	686.1	643.9	600.2	554.8
120	637.2	601.3	564.3	526.0	486.2
96	543.2	512.6	481.0	448.4	414.5
72	443.5	418.5	392.7	368.0	338.4
48	285.7	269.6	253.0	235.8	218.0

SPAN (INCHES)	LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM TY = PERPENDICULAR LOADS (PLF)				
	60	55	50	45	40
196	495.0	453.8	412.5	371.3	330.0
168	420.0	385.0	350.0	315.0	280.0
144	360.0	330.0	300.0	270.0	240.0
120	300.0	275.0	250.0	225.0	200.0
96	240.0	220.0	200.0	180.0	160.0
72	180.0	165.0	150.0	135.0	120.0
48	120.0	110.0	100.0	90.0	80.0

SPAN (INCHES)	MINIMUM SEPARATION FROM GLAZING (Including installation fabric stack) (For use in HVHZ. Glazing Separation not required outside HVHZ)				
	60 PSF	55 PSF	50 PSF	45 PSF	40 PSF
196	21.7	21.1	20.4	19.7	18.9
168	17.8	17.3	16.8	16.2	15.6
144	14.1	13.7	13.3	12.8	12.3
120	10.6	10.3	10.0	9.6	9.3
96	7.3	7.1	6.9	6.6	6.4
72	5.0	4.9	4.7	4.6	4.4
48					

**EVALUATION BASED ON:**  
ARCHITECTURAL TESTING INC.

REPORT NO.: 9035102-401-44  
REPORT DATE: 06/05/09  
TEST PROTOCOL: ASTM E 1886-05 (IMPACT & CYCLIC TEST METHOD)  
ASTM E 1996-05 (IMPACT STANDARD SPECIFICATION)  
ASTM E 330-02 (STATIC TEST METHOD)

DESIGN PRESSURE: 50 PSF W/ 9 LB LARGE MISSILE  
TEST PRESSURE: 75 PSF  
OVERALL SPAN: 16'-4" (196 INCHES)

REPORT NO.: 9035101-401-18  
REPORT DATE: 06/09/09  
TEST PROTOCOL: TAB 201-94 (IMPACT)  
TAB 202-94 (STATIC)  
TAB 203-94 (CYCLIC)

DESIGN PRESSURE: 50 PSF W/ 9 LB LARGE MISSILE  
TEST PRESSURE: 75 PSF  
OVERALL SPAN: 16'-4" (196 INCHES)

**NOTE:**  
DEFLECTIONS, Tx & Ty FOR 55 PSF AND 60 PSF SHOWN FOR FUTURE USE. CURRENT MAXIMUM DESIGN PRESSURE 50 PSF AT 196 INCHES.

**FABRIC SPECIFICATION (PER PLY):**  
FIBER CONTENT: 100% POLYPROPYLENE - 2 PLYS  
CONSTRUCTION: 3/4 BASKET-WEAVE, WARP - 60 ENDS PER INCH, WEFT - 50 ENDS PER INCH  
FINISH: CALENDERED  
WEIGHT (ASTM D-3776): 7.6 - 0Z/SQUARE YARD  
SEWAGE: HEAT CUT OR WOMEN  
TENSILE STRENGTH (9000 METHOD, ASTM D - 4532): WARP - 540 lbs., WEFT - 425 lbs.  
BURST STRENGTH (ASTM D - 3786): 825 PSI  
TEAR STRENGTH (ASTM D - 4533): WARP - 200 lbs., WEFT - 170 lbs.  
ABRASION RESISTANCE (ASTM D - 4896) 95% STRENGTH RETAINED  
PUNCTURE STRENGTH (ASTM D - 4533) 190 lbs.  
AIR FLOW: 230 CFM  
UV RETENTION (ASTM D-6154): 90%

**SEWING:**  
2 PLYS OF POLYPROPYLENE SEWN TOGETHER WITH STRIPS AT VARIOUS INTERVALS USING A MINIMUM 138 DENIER POLYESTER THREAD. (REFER TO SHEET 2 AND 3 OF 7)

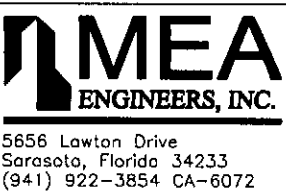
**EDGES:**  
CONTINUOUS SEWING WITH STRAP ON TWO EDGES. OTHER TWO EDGES ARE FELD CUT.  
STRAP EDGE MAY ALSO BE FELD CUT ALONG STRAP.  
STITCHING DETAILS: REFER TO SHEET 3 OF 7.

**STRAP:**  
PATTERN: X100-1000  
WIDTH/DIAMETER: 1.875" +/- .010  
AVERAGE BREAK STRENGTH: 5000 LB  
MATERIAL: POLYESTER

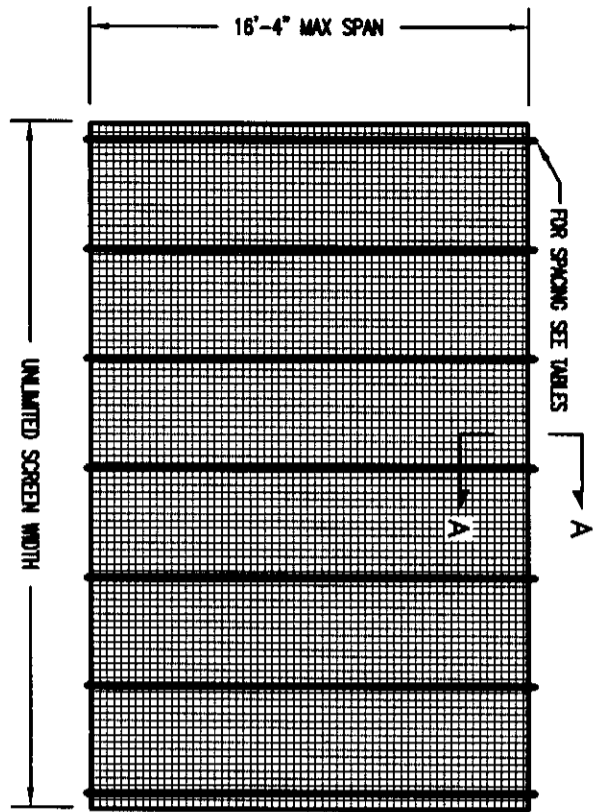
**ATTACHMENTS:**  
REFER TO SHEET 2 OF 7

John H. Kampmann Jr., PE  
Fl. License #: 47516  
DATE: 7/13/09

CA #6752  
WWW.MEAENGINEERS.COM

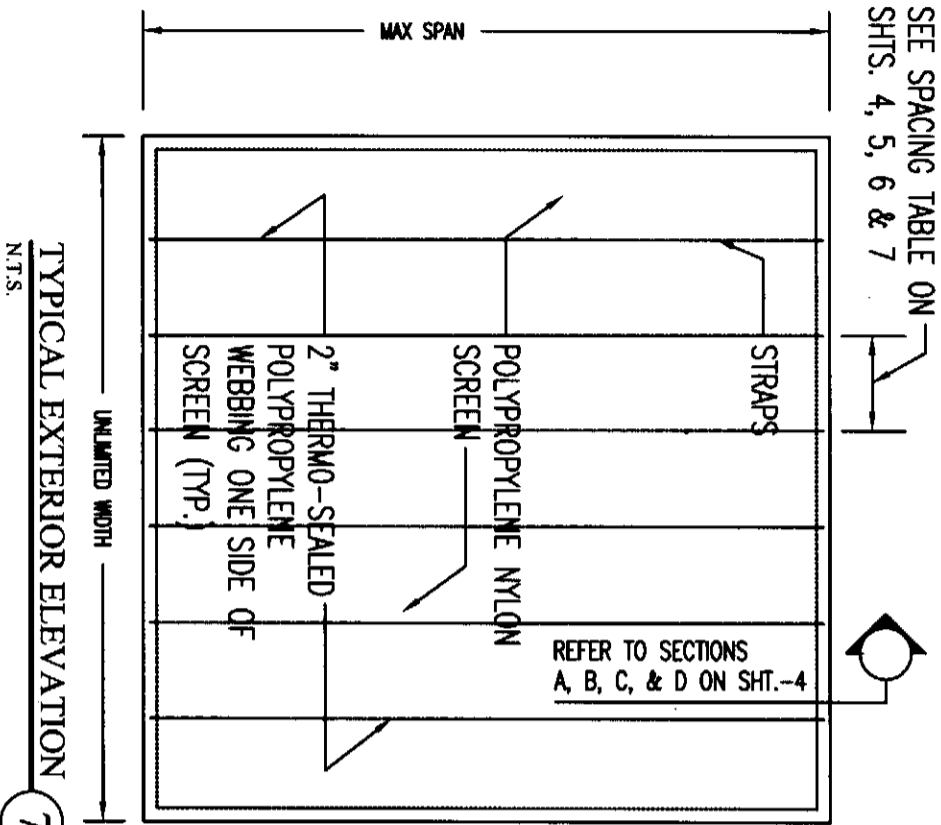


Project Name: <b>Ultratek Worldwide Inc.</b> 3801 N. Washington Blvd. Sarasota, FL 34234 PHONE: (941) 924-2285 www.ultratekworldwide.com	Description: <b>ULTRATEK 2X- SCREEN</b> <b>Mult-Ply Geotextile</b> <b>Hurricane Screen</b>	REV. 1 DESCRIPTION: XX/XX/XX - RESERVED.
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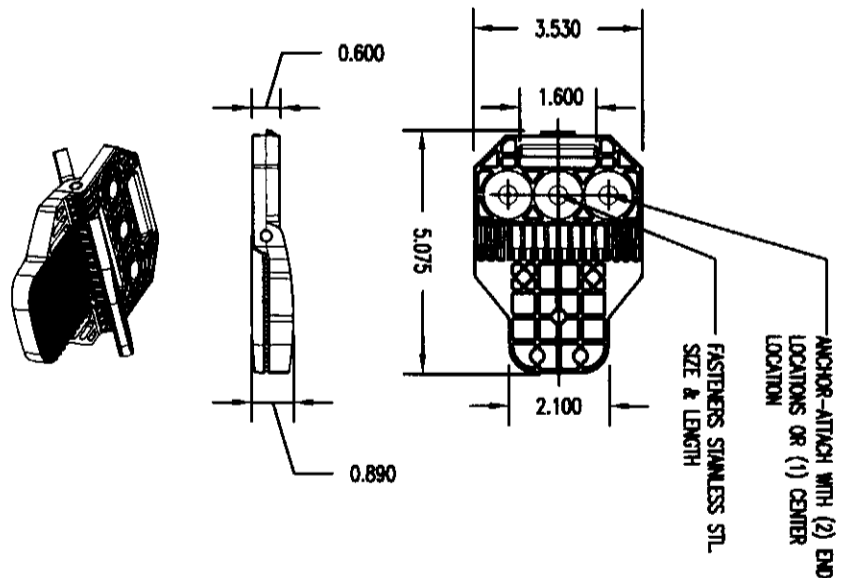
NOTE:  
PANELS CAN BE ATTACHED ON TWO SIDES OVERLAP ADDITIONAL SCREENS WITH MINIMUM 12" SPACING.  
**TYPICAL TWO-SIDED INSTALLATION** 9  
VERTICAL OR HORIZONTAL INSTALLATION-N.T.S.

**RESERVED**  
RESERVED 8

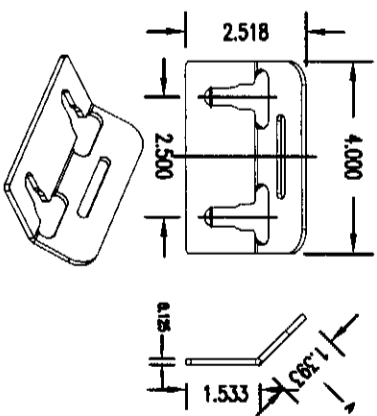


**TYPICAL EXTERIOR ELEVATION** 7  
N.T.S.

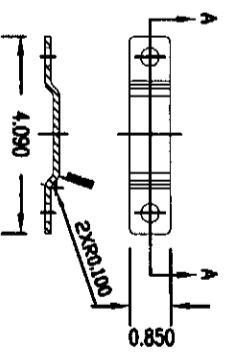
NOTE:  
STRAP SPACING MAY VARY ON EACH INDIVIDUAL SCREEN.



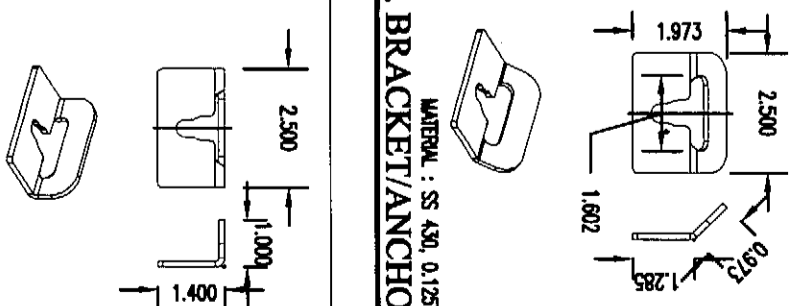
**X-BRACKET DETAIL** 6  
MATERIAL: POLYPROPYLENE  
USED FOR BRACKETS-N.T.S.



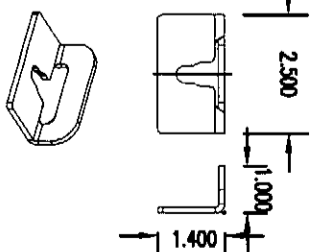
**MOUNTING BRACKETS** 5  
MATERIAL: SS 430, 0.125THK  
N.T.S.



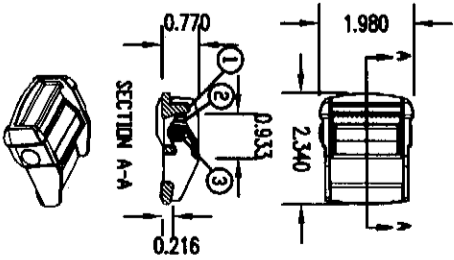
**STRAP/BACKET DETAIL** 4  
MATERIAL: SS 430, 0.125THK  
USED FOR BRACKETS-N.T.S.



**45° MTG. BRACKET/ANCHOR** 3  
MATERIAL: SS 430, 0.125THK  
N.T.S.



**90° MTG. BRACKET/ANCHOR** 2  
MATERIAL: SS 430, 0.125THK  
N.T.S.



**BUCKLE DETAIL** 1  
MATERIAL: DECK BUCKLE 1.5\"/>

CA #6752  
WWW.MEAENGINEERS.COM



5656 Lawton Drive  
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(941) 922-3854 CA-6072

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

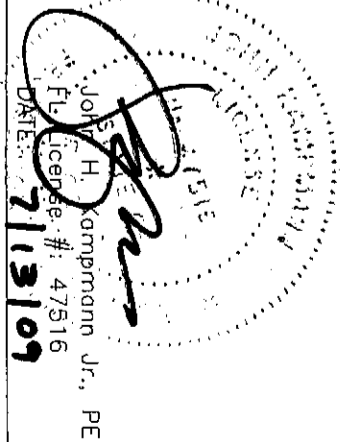
Project Name: **Ultratek Worldwide Inc.**

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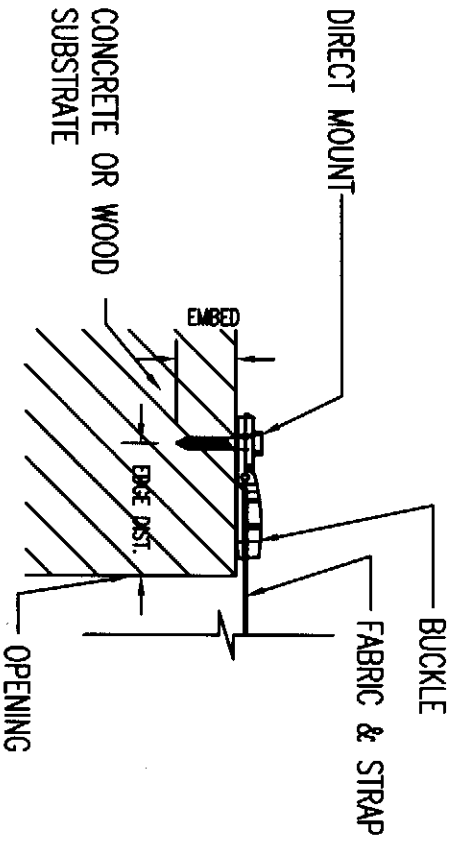
Description: **ULTRATEK 2X- SCREEN**  
**Mult-Ply Geotextile**  
**Hurricane Screen**

Drawn: JK  
Project #09-0605A  
Scale: N.T.S.  
Date: 06/09/09  
Sheet No:

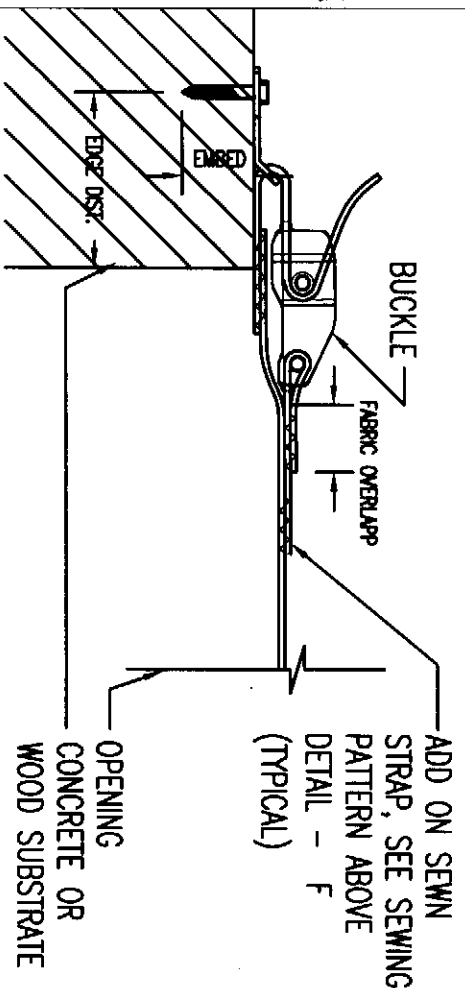
FBC (HIGH VELOCITY HURRICANE ZONE)



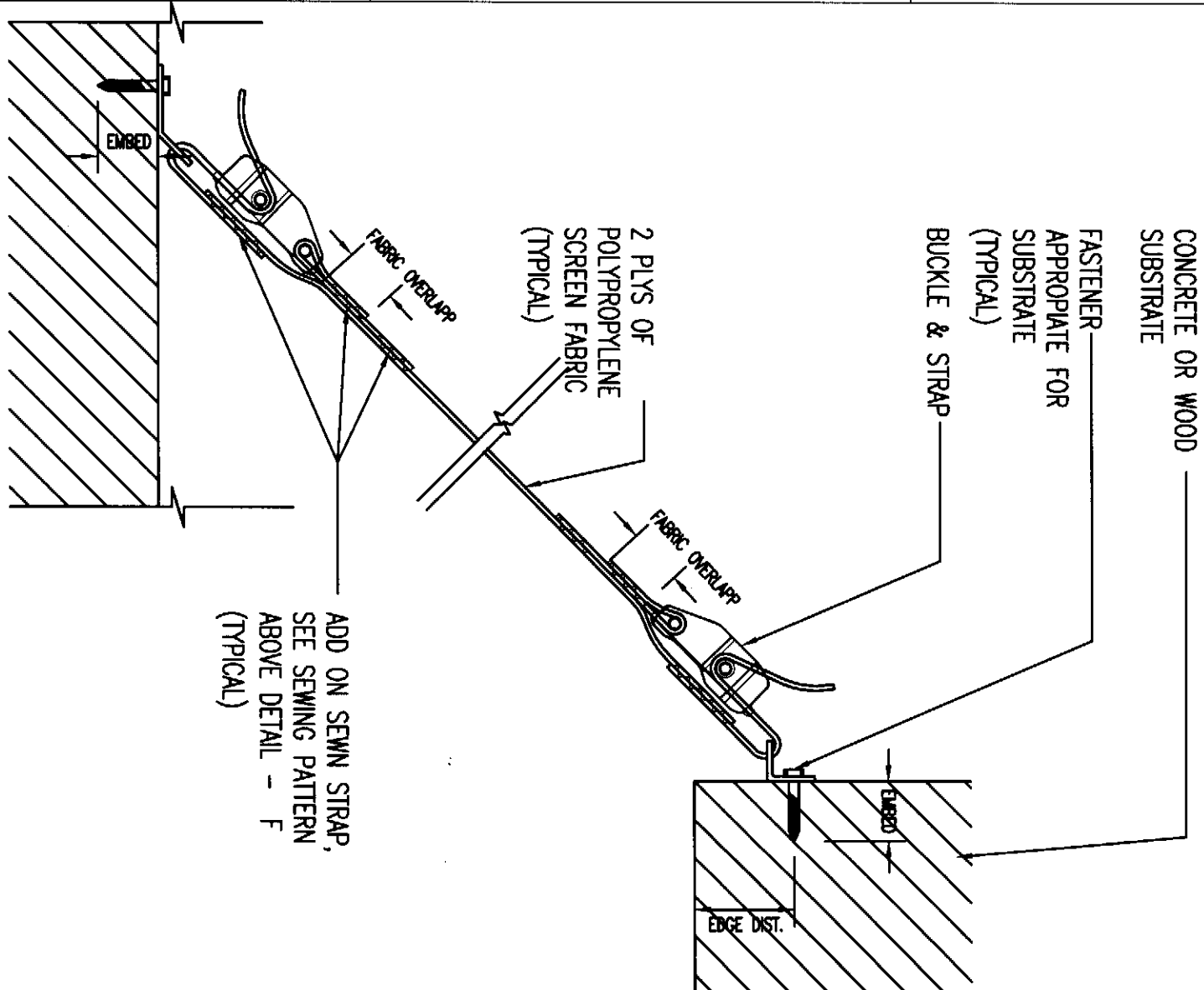
RESERVED  
3" = 1'-0"  
E



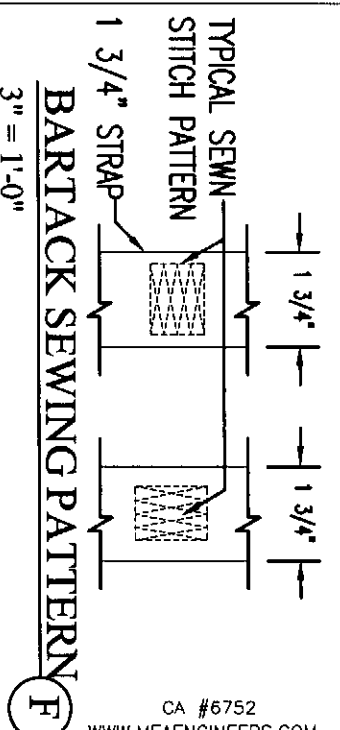
STRAP/BUCKLE DETAIL  
3" = 1'-0"  
D



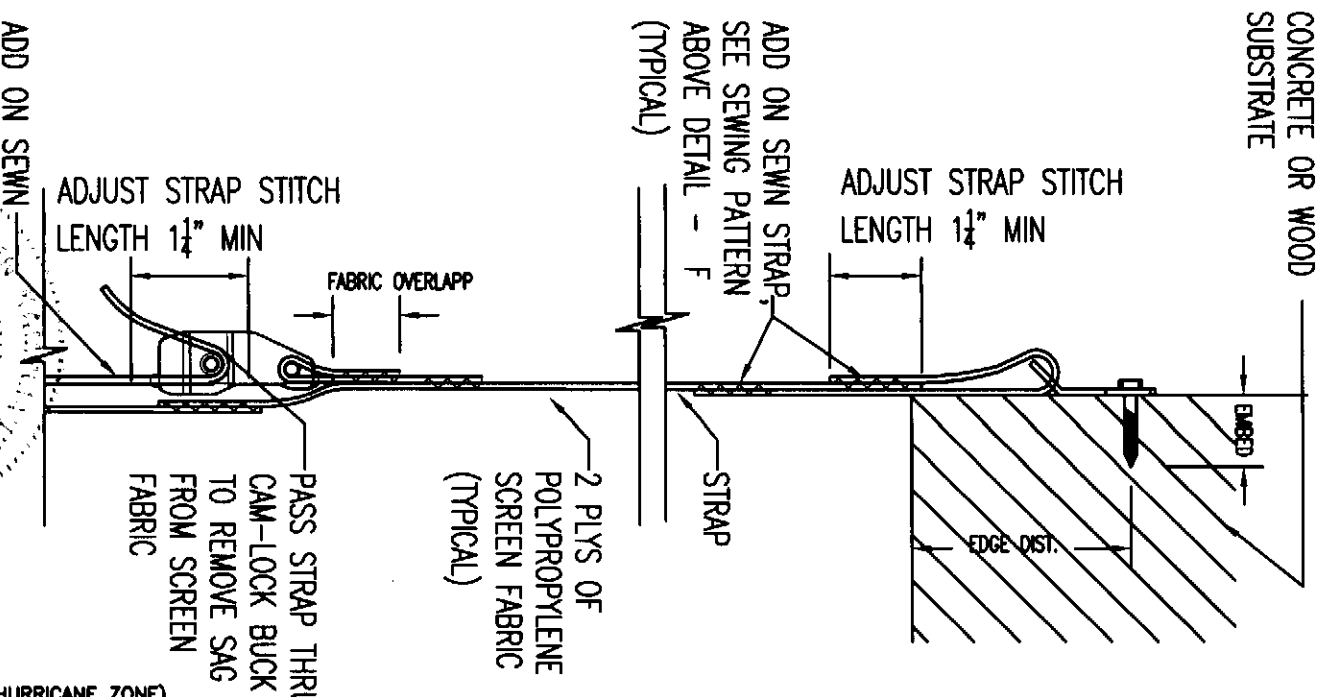
STRAP/BUCKLE DETAIL  
3" = 1'-0"  
C



TRAP MOUNT  
3" = 1'-0"  
B



3" = 1'-0"  
F  
CA #6752  
WWW.MEAENGINEERS.COM



STRAP MOUNTING SECTION  
3" = 1'-0"  
A

John H. Kampmann Jr., PE  
FL License #: 47516  
DATE: 7/13/09

FBC (HIGH VELOCITY HURRICANE ZONE)

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

Project Name: Ultratek Worldwide Inc.  
3801 N. Washington Blvd.  
Sarasota, FL 34234  
PHONE: (941) 924-2285  
www.ultratekworldwide.com

**MEA ENGINEERS, INC.**  
5656 Lawton Drive  
Sarasota, Florida 34233  
(941) 922-3854 CA-6072

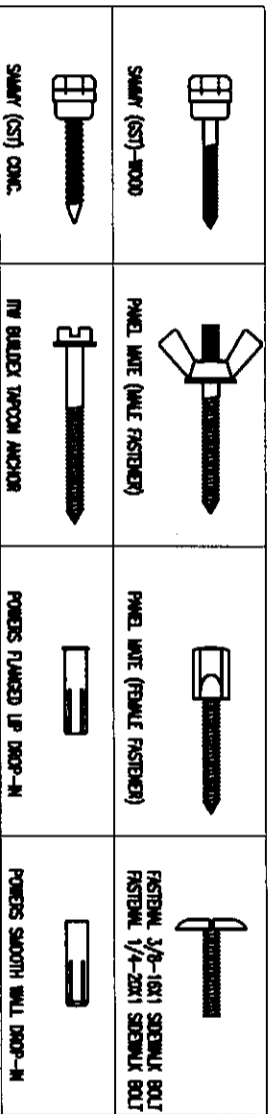
Description: ULTRATEK 2X- SCREEN  
Mult-Ply Geotextile  
Hurricane Screen

Drawn: JK  
Project: F09-0605A  
Scale: NTS  
Date: 06/09/09  
Sheet No.: 3 of 7

HOLLOW BLOCK DP 50 PSF		BRACKET FASTENER TYPES						
Span(ft.)	Span(in.)	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER	
1/4"	196	-	-	-	-	-	-	
	168	7	-	-	-	-	-	
	144	7	-	-	-	-	-	
	120	9	-	-	-	6	-	
	96	10	7	-	-	7	-	
3/8" DROP-IN	72	13	8	-	-	9	-	
	48	18	13	-	7	13	7	
	Span(ft.)		Span(in.)		Span(ft.)		Span(in.)	
	196	16	12	-	7	10	6	
	168	18	14	-	8	12	7	
144	18	15	-	7	15	8		
120	18	18	-	8	16	9		
96	18	18	-	10	18	11		
72	18	18	-	12	18	14		
48	18	18	-	14	18	18		

HOLLOW BLOCK DP 40 PSF		BRACKET FASTENER TYPES						
Span(ft.)	Span(in.)	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER	
1/4"	196	8	-	-	-	-	-	
	168	9	-	-	-	-	-	
	144	10	-	-	-	6	-	
	120	12	7	-	-	7	-	
	96	14	8	-	-	9	-	
3/8" DROP-IN	72	18	10	-	-	11	6	
	48	18	15	-	8	16	9	
	Span(ft.)		Span(in.)		Span(ft.)		Span(in.)	
	196	18	14	-	8	14	7	
	168	18	16	-	9	16	8	
144	18	18	-	10	18	10		
120	18	18	-	11	18	11		
96	18	18	-	14	18	14		
72	18	18	-	16	18	16		
48	18	18	-	18	18	18		

HOLLOW BLOCK DP 30 PSF		BRACKET FASTENER TYPES						
Span(ft.)	Span(in.)	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER	
1/4"	196	10	-	-	-	-	-	
	168	11	-	-	-	6	-	
	144	13	-	-	-	8	-	
	120	15	8	-	-	9	-	
	96	18	9	-	-	10	-	
3/8" DROP-IN	72	18	12	-	-	13	7	
	48	18	18	-	10	18	12	
	Span(ft.)		Span(in.)		Span(ft.)		Span(in.)	
	196	18	16	-	9	16	9	
	168	18	18	-	10	18	10	
144	18	18	-	12	18	12		
120	18	18	-	14	18	14		
96	18	18	-	15	18	16		
72	18	18	-	18	18	18		
48	18	18	-	18	18	18		



TYPICAL FASTENERS

1

N.T.S.

John P. Kampmann Jr., PE  
 P.L. License # 47516  
 Date: 7/13/09

FBC (HIGH VELOCITY HURRICANE ZONE)

CA #6752  
 WWW.MEAENGINEERS.COM



5656 Lawton Drive  
 Sarasota, Florida 34233  
 (941) 922-3854 CA-6072

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

Ultratek Worldwide Inc.

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 Sarasota, FL 34234  
 PHONE: (941) 924-2285  
 www.ultratekworldwide.com

ULTRATEK 2X- SCREEN  
 Mult-Ply Geotextile  
 Hurricane Screen

Project: JK  
 Project #09-0605A  
 Scale: NTS  
 Date: 06/09/09  
 Sheet No.:

GROUTED BLOCK (2000 PSI) DP 50 PSF		BRACKET FASTENER TYPES							
Span(in.)	1/4" Panelmates	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET - 2 FASTENERS	MAXIMUM SPACING X- BRACKET - 1 FASTENER		
		196	168	9	6	-	-	6	7
144	144	12	8	-	-	9	8	15	7
120	120	14	9	6	7	10	9	16	9
96	96	18	11	7	9	12	12	18	6
72	72	18	13	9	13	16	16	18	8
48	48	18	18	13	18	18	18	18	12
Span(in.)									
196		18	12	8	8	12	7	12	6
168		18	14	9	9	15	8	15	7
144		18	16	10	10	18	9	18	9
120		18	18	12	12	18	10	18	10
96		18	18	14	14	18	12	18	15
72		18	18	16	16	18	14	18	15
48		18	18	18	18	18	18	18	18

GROUTED BLOCK (2000 PSI) DP 30 PSF		BRACKET FASTENER TYPES							
Span(in.)	1/4" Panelmates	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET - 2 FASTENERS	MAXIMUM SPACING X- BRACKET - 1 FASTENER		
		196	168	14	9	6	-	10	10
144	144	16	10	7	-	11	11	12	-
120	120	18	11	8	6	13	13	13	6
96	96	18	13	8	7	16	16	18	7
72	72	18	16	10	8	18	18	18	9
48	48	18	18	12	10	18	18	18	12
Span(in.)									
196		18	18	12	9	18	9	18	10
168		18	18	13	11	18	11	18	12
144		18	18	14	12	18	12	18	12
120		18	18	16	14	18	14	18	15
96		18	18	18	16	18	16	18	18
72		18	18	18	18	18	18	18	18
48		18	18	18	18	18	18	18	18

GROUTED BLOCK (2000 PSI) DP 40 PSF		BRACKET FASTENER TYPES							
Span(in.)	1/4" Panelmates	MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET - 2 FASTENERS	MAXIMUM SPACING X- BRACKET - 1 FASTENER		
		196	168	11	7	-	-	8	8
144	144	13	8	-	-	9	9	9	-
120	120	14	9	6	-	10	10	10	-
96	96	16	11	7	6	12	12	12	6
72	72	18	12	8	7	14	14	14	7
48	48	18	16	10	8	18	18	18	9
Span(in.)									
196		18	14	10	8	16	16	16	8
168		18	16	11	9	18	18	18	9
144		18	18	12	10	18	18	18	10
120		18	18	14	12	18	18	18	12
96		18	18	16	14	18	18	18	18
72		18	18	18	16	18	18	18	18
48		18	18	18	18	18	18	18	18

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5656 Lawton Drive  
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(941) 922-3854 CA-6072

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**Ultratek Worldwide Inc.**  
3801 N. Washington Blvd.  
Sarasota, FL 34234  
PHONE: (941) 924-2285  
www.ultratekworldwide.com

**ULTRATEK 2X- SCREEN**  
Mult-Ply Geotextile  
Hurricane Screen

FBC (HIGH VELOCITY HURRICANE ZONE)

John M. Kompagnon Jr., PE  
FL License # 47516  
DA 7/13/09

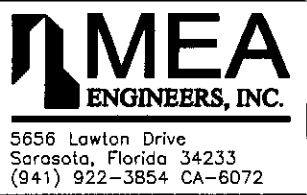
Project: 09-0605A  
Scale: NTS  
Date: 06/09/09  
Sheet No: 5 of 7

4000 PSI CONCRETE 40 PSF		BRACKET FASTENER TYPES						
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET -2 FASTENERS	MAXIMUM SPACING X- BRACKET -1 FASTENER	
1/4" Panelmates	Span(in.)	12	8	-	-	8	-	
	196	14	9	-	10	10	-	
	168	16	10	-	11	11	6	
	144	18	12	-	13	13	6	
	120	18	14	-	16	16	8	
96	18	16	8	8	18	10		
72	18	18	12	15	18	16		
48	18	18	18	18	18	18		
3/8" DROP-IN	Span(in.)	18	18	8	10	18	9	
	196	18	18	9	10	18	11	
	168	18	18	10	12	18	12	
	144	18	18	12	14	18	14	
	120	18	18	14	16	18	16	
96	18	18	16	18	18	18		
72	18	18	18	18	18	18		
48	18	18	18	18	18	18		

4000 PSI CONCRETE 50 PSF		BRACKET FASTENER TYPES						
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET -2 FASTENERS	MAXIMUM SPACING X- BRACKET -1 FASTENER	
1/4" Panelmates	Span(in.)	10	7	-	-	7	-	
	196	12	8	-	-	8	-	
	168	13	8	-	-	9	-	
	144	16	10	-	-	11	-	
	120	18	12	-	-	13	6	
96	18	15	7	7	16	8		
72	18	18	10	10	18	13		
48	18	18	18	18	18	18		
3/8" DROP-IN	Span(in.)	18	15	7	9	16	8	
	196	18	18	8	10	18	9	
	168	18	18	9	11	18	10	
	144	18	18	10	12	18	12	
	120	18	18	12	14	18	14	
96	18	18	16	16	18	18		
72	18	18	18	18	18	18		
48	18	18	18	18	18	18		

4000 PSI CONCRETE 30 PSF		BRACKET FASTENER TYPES						
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X- BRACKET -2 FASTENERS	MAXIMUM SPACING X- BRACKET -1 FASTENER	
1/4" Panelmates	Span(in.)	15	10	-	-	10	-	
	196	16	11	-	-	12	6	
	168	18	12	-	-	14	7	
	144	18	14	-	-	16	8	
	120	18	16	8	8	18	10	
96	18	18	10	10	18	12		
72	18	18	16	18	18	18		
48	18	18	18	18	18	18		
3/8" DROP-IN	Span(in.)	18	18	10	12	18	12	
	196	18	18	12	14	18	14	
	168	18	18	12	14	18	15	
	144	18	18	14	16	18	18	
	120	18	18	16	18	18	18	
96	18	18	18	18	18	18		
72	18	18	18	18	18	18		
48	18	18	18	18	18	18		

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Sarasota, FL 34234  
PHONE: (941) 924-2285  
www.ultratekworldwide.com

**ULTRATEK 2X- SCREEN**  
Mult-Ply Geotextile  
Hurricane Screen

Project Name: Ultratek 2X- SCREEN  
Description: Mult-Ply Geotextile Hurricane Screen  
Scale: NTS  
Date: 06/09/09  
Sheet No.: 6 of 7

John Kampmann, Jr., PE  
FL License # 47516  
DATE: 7/13/09

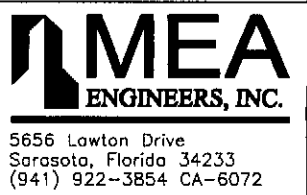
FBC (HIGH VELOCITY HURRICANE ZONE)

WOOD DP 40 PSF		BRACKET FASTENER TYPES					
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER
1/4" Panelmates	DP/Spn(in.)	7	-	-	-	-	-
	196	8	6	7	6	7	-
	168	9	7	8	7	8	-
	144	11	8	9	8	9	-
3/8" SAMMY'S	DP/Spn(in.)	10	6	-	-	-	-
	196	11	8	-	-	8	-
	168	12	8	-	-	9	-
	144	15	10	-	-	11	-
3/8" SAMMY'S	DP/Spn(in.)	18	14	6	7	12	12
	196	18	14	6	7	12	8
	168	18	14	6	7	12	8
	144	18	14	6	7	12	8

WOOD 50 PSF		BRACKET FASTENER TYPES					
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER
1/4" Panelmates	DP/Spn(in.)	6	-	-	-	-	-
	196	7	-	-	-	-	-
	168	8	-	-	-	-	-
	144	9	6	-	-	-	-
3/8" SAMMY'S	DP/Spn(in.)	9	-	-	-	-	-
	196	9	6	-	-	-	-
	168	11	7	-	-	-	-
	144	12	8	-	-	-	-
3/8" SAMMY'S	DP/Spn(in.)	18	14	9	10	10	11
	196	18	14	9	10	10	6
	168	18	14	9	10	10	6
	144	18	14	9	10	10	6

WOOD DP 30 PSF		BRACKET FASTENER TYPES					
		MAXIMUM SPACING STRAP BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 2 FASTENERS EACH	MAXIMUM SPACING 45 DEGREE BRACKET - 1 FASTENER EACH	MAXIMUM SPACING 90 DEGREE BRACKET - OUTSIDE - 1 FASTENER EACH	MAXIMUM SPACING X-BRACKET - 2 FASTENERS	MAXIMUM SPACING X-BRACKET - 1 FASTENER
1/4" Panelmates	DP/Spn(in.)	9	-	-	-	-	-
	196	10	6	-	-	6	-
	168	12	7	-	-	7	-
	144	13	9	-	-	8	-
3/8" SAMMY'S	DP/Spn(in.)	12	7	-	-	8	-
	196	14	9	-	-	10	-
	168	15	10	-	-	11	-
	144	18	12	-	-	14	-
3/8" SAMMY'S	DP/Spn(in.)	18	16	12	12	18	16
	196	18	16	12	12	18	10
	168	18	16	12	12	18	10
	144	18	16	12	12	18	10

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Project Name: Ultratek Worldwide Inc.  
3801 N. Washington Blvd.  
Sarasota, FL 34234  
PHONE: (941) 924-2285  
www.ultratekworldwide.com

Description: ULTRATEK 2X- SCREEN  
Mult-Ply Geotextile  
Hurricane Screen

Order: 06/09/09  
Scale: NTS  
Project #09-0605A  
Order: JK  
Date: 7/13/09  
John Kampmann Jr., PE  
FL License #: 47516  
DAY 7113109