

**STRUCTURAL NOTES:**

1. THIS NON-POROUS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2010 EDITION OF THE FLORIDA BUILDING CODE (FBC). THIS SYSTEM SHALL NOT BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (HMM-1/2A/3/4/5/6/7/8/9/10/11/12) NOR ESSENTIAL FACILITIES IN WIND ZONES 1, 2, 3 OR 4. THE Adequacy FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609.1.2 (NON-HMM) OF THE ABOVE REFERENCED CODE, AND AS PER ASTM E1886-05, ASTM E1996-05 AND ASTM E330-07 AS LISTED HEREIN AS WELL AS ADDITIONAL STANDARDS AS MENTIONED ELSEWHERE ON SHEET 1 OF 8.
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 RATINGS SHOWN ON SHEET 1 AND 2. USE OF DIRECTIONALITY FACTOR K<sub>d</sub> IS ALLOWED.
3. IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 (NON-HMM) MISILE TYPE D AS LISTED HEREIN.
4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. A 1.8 WIND LOAD DURATION FACTOR WAS USED TO CALCULATE SCREW SPACINGS FOR LAG SCREWS INTO WOOD.
5. 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.
6. 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.
7. 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. THE ENGINEER OF RECORD, ACTIVE AS A DELEGATED ENGINEER TO THE PED ENGINEER SHALL SUBMIT TO THIS ENGINEER THE SITE SPECIFIC DRAWINGS FOR REVIEW.
8. THIS PED SHALL BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT REGARDLESS OF ITS AVAILABILITY FROM THE FLORIDA ARCHITECT APPROVAL WEBSITE.
9. THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
10. THIS WIND ABATEMENT SYSTEM IS INTENDED FOR USE ONLY DURING HURRICANE OR OTHER TROPICAL STORM WEATHER. 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 DETERIORATION OR CRACKING AND THEREBY AFFECT THEIR Adequacy AS AN IMPACT RESISTANT SYSTEM.
11. LIMITATIONS OF USE:  
THE MAXIMUM SIZE SHALL BE 60 PSF MAX. PRESSURE AT 220 INCHES MAXIMUM SPAN WITH UNLIMITED WIND. SEE TABLES ON SHEETS 1, 5, 6, 7 & 8 OF 8.  
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.
12. ALL SCREWS TO BE STAINLESS STEEL 304 OR GALVANIZED A307 STEEL.
13. ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL.
14. SUPPORT BRACKETS AND ANCHORS:  
A. ANCHORS INTO THE SUPPORT SUBSTRUCTURE ( WALL, CEILING, BEAMS AND FLOORS) SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.  
B. SEE ANCHOR SPACING TABLES ON SHEETS 5, 6, 7 & 8 OF 8 INDICATED FOR A 1/4" AND 3/8" INCH DIAMETER, REFER TO CENTER OF SUPPORTING BRACKETS.  
C. THE ANCHOR SPACING CHARTS ARE BASED ON A REMOVAL BRACKET SYSTEM USING MALE PANEL MATES WITH WING NUTS, FEMALE PANEL MATES, SHAWTS AND DROP-IN ANCHORS WITH SOCKET-BOLT BOLTS. TAPCONS OF THE SAME SIZE CAN BE SUBSTITUTED FOR PERMANENT BRACKET INSTALLATIONS. THE HARD-SET TAPCONS MAY BE USED IN LEU.
15. ANCHOR NOMINAL DIAMETER AND EDGE DISTANCES OF ELOD ULTRASCREEN OR THE TAPCONS.

SUBSTRUCTURE	EMBEDMENT	EDGE DISTANCE
HOLLOW BLOCK	1-1/4" INCH	12" D OR PER MANUF.
GROUT FILLED OR RSI CONCRETE	1-3/4" INCH	12" D OR PER MANUF.
4 RSI CONCRETE OR 2 RSI CONCRETE	1-3/4" INCH	12" D OR PER MANUF.
WOOD OR DIMBER	8" D	3/4" INCH

14. MAXIMUM DESIGN PRESSURE (PSF) AS PANEL SPAN SHOWN ON SHEETS 5, 6, 7 & 8 OF 8. INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN SPACINGS NOT LISTED.
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:  
ULTRATEK WORLDWIDE INC.  
3001 N. Washington Blvd.  
Sarasota, FL 34234  
FLORIDA PRODUCT APPROVAL NUMBER FL-1000, OPENING NO. 11

16. THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED IN ANY MANNER OR DOES NOT BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

SPAN (INCHES)	PRESSURE (PSF)						
	60	55	50	45	40	35	30
220	977	922	865	806	745	682	615
192	892	842	790	736	681	623	562
168	816	770	723	674	623	570	514
144	736	695	652	608	562	514	464
120	652	615	577	538	498	455	411
96	562	530	498	464	429	392	354
72	464	438	411	383	354	324	292
48	354	334	313	292	270	247	223

SPAN (INCHES)	PRESSURE (PSF)						
	60	55	50	45	40	35	30
220	550	504	458	413	367	321	275
192	480	440	400	360	320	280	240
168	420	385	350	315	280	245	210
144	360	330	300	270	240	210	180
120	300	275	250	225	200	175	150
96	240	220	200	180	160	140	120
72	180	165	150	135	120	105	90
48	120	110	100	90	80	70	60

**MESH SPECIFICATION (PER PLY):**

FIBER CONTENT: 120% POLYPROPYLENE - 2 PLYS  
CONSTRUCTION: 3/4 BASKET-WOVEN, WARP - 60 ENDS PER INCH, WERE - 50 ENDS PER INCH  
FIBER: CHLORIDIZED  
WEIGHT (ASTM D-3776): 7.6 - 02/SQUARE YARD  
SEALING: HEAT CUT OR WOVEN  
TENSILE STRENGTH (TENSILE 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.  
ANCHOR RESISTANCE (ASTM D - 4208) BARE STRENGTH REQUIRED  
PUNCTURE STRENGTH (ASTM D - 4533) 190 lbs.  
AIR FLOW: 230 CFM  
UV RESISTANCE (ASTM D-6154): 80%

**SEAM:**

2 PLYS OF POLYPROPYLENE SEAM OR ATTACHED WITH COMPONENTS TOGETHER WITH STRIPS AT VARIOUS INTERVALS USING A MINIMUM 1/8" DIAMETER POLYESTER THREAD F SEAM, OR ATTACHED PER DRAWINGS. (REFER TO SHEETS 2, 3 AND 4 OF 8)

**EDGES:**

SEE SHEET 3 OF 8 FOR EDGE TREATMENT OPTIONS.

**STEERING DETAILS:** REFER TO SHEETS 1, 2, 3 & 4 OF 8.

**STRIP:**

PATTERN: 1100-1000  
WIDTH/TOLERANCE: 1.5" +/- .010 (METAL BUCKLE #1), 1.75" +/- .01" (PLASTIC BUCKLE #2)  
MINIMUM BREAKING STRENGTH: 3000 LB  
MATERIAL: POLYESTER

**BUCKLE:**

REFER TO SHEET 2, 3 & 4 OF 8

**ANCHORMENTS:**

REFER TO SHEET 2, 3, 4 AND 8 OF 8

**DILATION BASED ON ARCHITECTURAL TESTING INC.**

REPORT NO.: 0035102-401-44  
REPORT DATE: 04/05/09  
TEST PROTOCOL: ASTM E 1886-05 (IMPACT & CYCLIC TEST METHOD)  
ASTM E 1886-05 (IMPACT STANDARD SPECIFICATION)  
ASTM E 330-02 (STATIC TEST METHOD)  
DESIGN PRESSURE: 50 PSF W/ MISSILE LEVEL D AND WIND ZONE 4.  
TEST PRESSURE: 75 PSF  
OVERALL SPAN: 15'-6" (198 INCHES)  
REPORT NO.: 0035101-401-18  
REPORT DATE: 04/06/09  
TEST PROTOCOL: DTS 201-04 (IMPACT)  
DTS 202-04 (STATIC)  
DTS 203-04 (CYCLIC)  
DESIGN PRESSURE: 50 PSF W/ 9 LB LARGE MISSILE  
TEST PRESSURE: 75 PSF  
OVERALL SPAN: 15'-6" (198 INCHES)

**DILATION BASED ON ARCHITECTURAL TESTING INC.**

REPORT NO.: A227101-401-44  
REPORT DATE: 07-12-10  
TEST PROTOCOL: ASTM E 1886-05 (IMPACT & CYCLIC TEST METHOD)  
ASTM E 1886-05 (IMPACT STANDARD SPECIFICATION)  
ASTM E 330-02 (STATIC TEST METHOD)  
DESIGN PRESSURE: 60 PSF W/ MISSILE LEVEL D AND WIND ZONE 4.  
TEST PRESSURE: 90 PSF  
OVERALL SPAN: 15'-6" (198 INCHES)  
REPORT NO.: A227101-401-18  
REPORT DATE: 07-06-10  
TEST PROTOCOL: DTS 201-04 (IMPACT)  
DTS 202-04 (STATIC)  
DTS 203-04 (CYCLIC)  
DESIGN PRESSURE: 60 PSF W/ 9 LB LARGE MISSILE  
TEST PRESSURE: 90 PSF  
OVERALL SPAN: 15'-6" (198 INCHES)

John A. Kamppmann Jr., PE  
FL License No. 47516  
Date: 12/11

2010 FBC (NON-HIGH VELOCITY HURRICANE ZONE)

ULTRASCREEN 2X PLUS  
Multi-Ply Geotextile  
Hurricane Screen

Ultratek Worldwide Inc.  
3001 N. Washington Blvd.  
Sarasota, FL 34234  
PHONE (941) 554-2200  
www.ultratekworldwide.com

MEAWORLDWIDE.COM  
CA 46192  
9556 Lorton Drive #4233  
MESA, AZ 85205  
(602) 942-3855 CA-6072

DESCRIPTION

REV

11 JK  
11-1220A  
NLS  
12/20/11

1 of 8





USE 3, 4, 5  
 OR STRAP OR  
 MOUNTING METHODS  
 SHOWN BELOW (TYP.)

CONCRETE OR WOOD  
 SUBSTRATE

ADJUST STRAP STITCH  
 LENGTH 1/2" MIN (TYP.)

ADD ON SEWN STRAP  
 (TYPICAL)

PASS STRAP THRU  
 CAM-LOCK BUCK  
 TO REMOVE SAG  
 FROM SCREEN  
 FABRIC

3" = 1'-0"

3 4 5 8

6 10 11

6 10 11

6 10 11

CONCRETE OR WOOD  
 SUBSTRATE

FASTENER APPROPRIATE FOR  
 SUBSTRATE (TYPICAL)

PASS STRAP THRU  
 CAM-LOCK BUCK  
 TO REMOVE SAG  
 FROM SCREEN  
 FABRIC

5" (3 ZONE)  
 5" (4 ZONE)  
 5" (5 ZONE)

6 10 11

3 4 5 8

6 10 11

6 10 11

3" = 1'-0"

3 4 5 8

CONCRETE OR WOOD  
 SUBSTRATE

TRAPPED MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

TRAPPED MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

CONCRETE OR WOOD  
 SUBSTRATE

DIRECT MOUNT

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

DIRECT MOUNT DETAIL  
 3" = 1'-0"

CONCRETE OR WOOD  
 SUBSTRATE

OPENING

CONCRETE OR WOOD  
 SUBSTRATE

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

BUCKLE

John J. ...  
 FL License #: 47516  
 DATE



GROUTED BLOCK (2000 PSI) DP 60 PSF	STRAP BRACKET	45 DEG. BRACKET	90 DEG. BRACKET	X-BRACKET 2 FASTENERS	GROMMET BRACKET	STRAP CONNECTOR	L-BRACKET 2 FASTENERS	L-BRACKET 1 FASTENER	FLEX BRACKET	Span (ft)		
										14" Penetration	30" DROP-IN	
14" Penetration	8	8	8	8	8	8	8	8	8	8	8	
	9	9	9	9	9	9	9	9	9	9	9	
	11	11	11	11	11	11	11	11	11	11	11	
	13	13	13	13	13	13	13	13	13	13	13	
	14	14	14	14	14	14	14	14	14	14	14	
	17	17	17	17	17	17	17	17	17	17	17	
	18	18	18	18	18	18	18	18	18	18	18	
	20	20	20	20	20	20	20	20	20	20	20	20
	22	22	22	22	22	22	22	22	22	22	22	22
	23	23	23	23	23	23	23	23	23	23	23	23
	25	25	25	25	25	25	25	25	25	25	25	25
	27	27	27	27	27	27	27	27	27	27	27	27
30" DROP-IN	15	15	15	15	15	15	15	15	15	15	15	
	17	17	17	17	17	17	17	17	17	17	17	
	18	18	18	18	18	18	18	18	18	18	18	
	19	19	19	19	19	19	19	19	19	19	19	
	20	20	20	20	20	20	20	20	20	20	20	
	22	22	22	22	22	22	22	22	22	22	22	
	23	23	23	23	23	23	23	23	23	23	23	
	25	25	25	25	25	25	25	25	25	25	25	
	27	27	27	27	27	27	27	27	27	27	27	
	28	28	28	28	28	28	28	28	28	28	28	
	30	30	30	30	30	30	30	30	30	30	30	
	32	32	32	32	32	32	32	32	32	32	32	

NOTE: INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN PRESSURES OR SPACING FOR SIZES NOT LISTED.

GROUTED BLOCK (2000 PSI) DP 30 PSF	STRAP BRACKET	45 DEG. BRACKET	90 DEG. BRACKET	X-BRACKET 2 FASTENERS	GROMMET BRACKET	STRAP CONNECTOR	L-BRACKET 2 FASTENERS	L-BRACKET 1 FASTENER	FLEX BRACKET	Span (ft)	
										14" Penetration	30" DROP-IN
14" Penetration	13	13	13	13	13	13	13	13	13	13	13
	14	14	14	14	14	14	14	14	14	14	14
	16	16	16	16	16	16	16	16	16	16	16
	17	17	17	17	17	17	17	17	17	17	17
	18	18	18	18	18	18	18	18	18	18	18
	20	20	20	20	20	20	20	20	20	20	20
	22	22	22	22	22	22	22	22	22	22	22
	23	23	23	23	23	23	23	23	23	23	23
	25	25	25	25	25	25	25	25	25	25	25
	27	27	27	27	27	27	27	27	27	27	27
	28	28	28	28	28	28	28	28	28	28	28
	30	30	30	30	30	30	30	30	30	30	30
30" DROP-IN	15	15	15	15	15	15	15	15	15	15	15
	17	17	17	17	17	17	17	17	17	17	17
	18	18	18	18	18	18	18	18	18	18	18
	19	19	19	19	19	19	19	19	19	19	19
	20	20	20	20	20	20	20	20	20	20	20
	22	22	22	22	22	22	22	22	22	22	22
	23	23	23	23	23	23	23	23	23	23	23
	25	25	25	25	25	25	25	25	25	25	25
	27	27	27	27	27	27	27	27	27	27	27
	28	28	28	28	28	28	28	28	28	28	28
	30	30	30	30	30	30	30	30	30	30	30
	32	32	32	32	32	32	32	32	32	32	32

John A. Kempfman Jr., PE  
FL License #: 47516  
DATE

CA 16352  
WWW.MKALCONCRETE.COM

2010 FBC (NON-HIGH VELOCITY HURRICANE ZONE)

Span (ft)	4000 PSI CONCRETE		Span (ft)	4000 PSI CONCRETE	
	4000 PSI CONCRETE	4000 PSI CONCRETE		4000 PSI CONCRETE	4000 PSI CONCRETE
220	STAP BRACKET	4000 PSI CONCRETE	220	STAP BRACKET	4000 PSI CONCRETE
182	STAP BRACKET	4000 PSI CONCRETE	182	STAP BRACKET	4000 PSI CONCRETE
144	STAP BRACKET	4000 PSI CONCRETE	144	STAP BRACKET	4000 PSI CONCRETE
106	STAP BRACKET	4000 PSI CONCRETE	106	STAP BRACKET	4000 PSI CONCRETE
68	STAP BRACKET	4000 PSI CONCRETE	68	STAP BRACKET	4000 PSI CONCRETE
30	STAP BRACKET	4000 PSI CONCRETE	30	STAP BRACKET	4000 PSI CONCRETE
10	STAP BRACKET	4000 PSI CONCRETE	10	STAP BRACKET	4000 PSI CONCRETE
2	STAP BRACKET	4000 PSI CONCRETE	2	STAP BRACKET	4000 PSI CONCRETE
1	STAP BRACKET	4000 PSI CONCRETE	1	STAP BRACKET	4000 PSI CONCRETE

Span (ft)	4000 PSI CONCRETE		Span (ft)	4000 PSI CONCRETE	
	4000 PSI CONCRETE	4000 PSI CONCRETE		4000 PSI CONCRETE	4000 PSI CONCRETE
220	STAP BRACKET	4000 PSI CONCRETE	220	STAP BRACKET	4000 PSI CONCRETE
182	STAP BRACKET	4000 PSI CONCRETE	182	STAP BRACKET	4000 PSI CONCRETE
144	STAP BRACKET	4000 PSI CONCRETE	144	STAP BRACKET	4000 PSI CONCRETE
106	STAP BRACKET	4000 PSI CONCRETE	106	STAP BRACKET	4000 PSI CONCRETE
68	STAP BRACKET	4000 PSI CONCRETE	68	STAP BRACKET	4000 PSI CONCRETE
30	STAP BRACKET	4000 PSI CONCRETE	30	STAP BRACKET	4000 PSI CONCRETE
10	STAP BRACKET	4000 PSI CONCRETE	10	STAP BRACKET	4000 PSI CONCRETE
2	STAP BRACKET	4000 PSI CONCRETE	2	STAP BRACKET	4000 PSI CONCRETE
1	STAP BRACKET	4000 PSI CONCRETE	1	STAP BRACKET	4000 PSI CONCRETE

NOTE: INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN PRESSURES OR SPACING FOR SIZES NOT LISTED.

Span (ft)	4000 PSI CONCRETE		Span (ft)	4000 PSI CONCRETE	
	4000 PSI CONCRETE	4000 PSI CONCRETE		4000 PSI CONCRETE	4000 PSI CONCRETE
220	STAP BRACKET	4000 PSI CONCRETE	220	STAP BRACKET	4000 PSI CONCRETE
182	STAP BRACKET	4000 PSI CONCRETE	182	STAP BRACKET	4000 PSI CONCRETE
144	STAP BRACKET	4000 PSI CONCRETE	144	STAP BRACKET	4000 PSI CONCRETE
106	STAP BRACKET	4000 PSI CONCRETE	106	STAP BRACKET	4000 PSI CONCRETE
68	STAP BRACKET	4000 PSI CONCRETE	68	STAP BRACKET	4000 PSI CONCRETE
30	STAP BRACKET	4000 PSI CONCRETE	30	STAP BRACKET	4000 PSI CONCRETE
10	STAP BRACKET	4000 PSI CONCRETE	10	STAP BRACKET	4000 PSI CONCRETE
2	STAP BRACKET	4000 PSI CONCRETE	2	STAP BRACKET	4000 PSI CONCRETE
1	STAP BRACKET	4000 PSI CONCRETE	1	STAP BRACKET	4000 PSI CONCRETE

Span (ft)	4000 PSI CONCRETE		Span (ft)	4000 PSI CONCRETE	
	4000 PSI CONCRETE	4000 PSI CONCRETE		4000 PSI CONCRETE	4000 PSI CONCRETE
220	STAP BRACKET	4000 PSI CONCRETE	220	STAP BRACKET	4000 PSI CONCRETE
182	STAP BRACKET	4000 PSI CONCRETE	182	STAP BRACKET	4000 PSI CONCRETE
144	STAP BRACKET	4000 PSI CONCRETE	144	STAP BRACKET	4000 PSI CONCRETE
106	STAP BRACKET	4000 PSI CONCRETE	106	STAP BRACKET	4000 PSI CONCRETE
68	STAP BRACKET	4000 PSI CONCRETE	68	STAP BRACKET	4000 PSI CONCRETE
30	STAP BRACKET	4000 PSI CONCRETE	30	STAP BRACKET	4000 PSI CONCRETE
10	STAP BRACKET	4000 PSI CONCRETE	10	STAP BRACKET	4000 PSI CONCRETE
2	STAP BRACKET	4000 PSI CONCRETE	2	STAP BRACKET	4000 PSI CONCRETE
1	STAP BRACKET	4000 PSI CONCRETE	1	STAP BRACKET	4000 PSI CONCRETE

DATE: 2-24-12  
 John H. Kampmann Jr., PE  
 FL License #: 47516

2010 FSC (LOW-HIGH VELOCITY HURRICANE ZONE)  
 NIS 11-1220A  
 JK  
 12/20/11  
 7 of 8

ULTRASCREEN 2X PLUS  
 Multi-Ply Geotextile  
 Hurricane Screen

Ultrascreen Worldwide Inc.  
 5411 N. Wacker Drive  
 Tampa, FL 33611  
 PHONE: (813) 932-3333  
 WWW.ULTRASCREEN.COM

CA 95132  
 WWW.USCONCRETE.COM  
**IMEA**  
 ENGINEERS, INC.  
 5655 London Drive  
 Sacramento, Florida 32433  
 (941) 922-3354 CA-6072

WOOD DP 50 PSF	STRAP BRACKET	45 DEG. BRACKET	60 DEG. BRACKET	X-BRACKET 2FASTENERS	X-BRACKET 1FASTENER	GROMMET BRACKET	L-BRACKET 2FASTENERS	L-BRACKET 1FASTENER	FLEX BRACKET
14" Parabolic	20	7	8	11	8	8	6	7	12
	182	7	8	11	8	8	6	7	12
	165	7	8	11	8	8	6	7	12
	144	7	8	11	8	8	6	7	12
	120	7	8	11	8	8	6	7	12
	98	7	8	11	8	8	6	7	12
30" DROP-IN	20	7	8	11	8	8	6	7	12
	182	7	8	11	8	8	6	7	12
	165	7	8	11	8	8	6	7	12
	144	7	8	11	8	8	6	7	12
	120	7	8	11	8	8	6	7	12
	98	7	8	11	8	8	6	7	12

WOOD DP 60 PSF	STRAP BRACKET	45 DEG. BRACKET	60 DEG. BRACKET	X-BRACKET 2FASTENERS	X-BRACKET 1FASTENER	GROMMET BRACKET	L-BRACKET 2FASTENERS	L-BRACKET 1FASTENER	FLEX BRACKET
14" Parabolic	20	7	8	11	8	8	6	7	14
	182	7	8	11	8	8	6	7	14
	165	7	8	11	8	8	6	7	14
	144	7	8	11	8	8	6	7	14
	120	7	8	11	8	8	6	7	14
	98	7	8	11	8	8	6	7	14
30" DROP-IN	20	7	8	11	8	8	6	7	14
	182	7	8	11	8	8	6	7	14
	165	7	8	11	8	8	6	7	14
	144	7	8	11	8	8	6	7	14
	120	7	8	11	8	8	6	7	14
	98	7	8	11	8	8	6	7	14

NOTE: INTERPOLATION IS ALLOWED IN BETWEEN TWO SPANS TO OBTAIN PRESSURES OR SPACING FOR SIZES NOT LISTED.

WOOD DP 30 PSF	STRAP BRACKET	45 DEG. BRACKET	60 DEG. BRACKET	X-BRACKET 2FASTENERS	X-BRACKET 1FASTENER	GROMMET BRACKET	L-BRACKET 2FASTENERS	L-BRACKET 1FASTENER	FLEX BRACKET
14" Parabolic	20	8	9	13	9	9	7	8	17
	182	8	9	13	9	9	7	8	17
	165	8	9	13	9	9	7	8	17
	144	8	9	13	9	9	7	8	17
	120	8	9	13	9	9	7	8	17
	98	8	9	13	9	9	7	8	17
30" DROP-IN	20	8	9	13	9	9	7	8	17
	182	8	9	13	9	9	7	8	17
	165	8	9	13	9	9	7	8	17
	144	8	9	13	9	9	7	8	17
	120	8	9	13	9	9	7	8	17
	98	8	9	13	9	9	7	8	17

WOOD DP 40 PSF	STRAP BRACKET	45 DEG. BRACKET	60 DEG. BRACKET	X-BRACKET 2FASTENERS	X-BRACKET 1FASTENER	GROMMET BRACKET	L-BRACKET 2FASTENERS	L-BRACKET 1FASTENER	FLEX BRACKET
14" Parabolic	20	7	8	11	8	8	6	7	14
	182	7	8	11	8	8	6	7	14
	165	7	8	11	8	8	6	7	14
	144	7	8	11	8	8	6	7	14
	120	7	8	11	8	8	6	7	14
	98	7	8	11	8	8	6	7	14
30" DROP-IN	20	7	8	11	8	8	6	7	14
	182	7	8	11	8	8	6	7	14
	165	7	8	11	8	8	6	7	14
	144	7	8	11	8	8	6	7	14
	120	7	8	11	8	8	6	7	14
	98	7	8	11	8	8	6	7	14

*John A. Kampmann Jr., PE*  
 DATE: 2.24.12  
 FL License #: 47516