STRUCTURAL NOTES:

- 1. THIS NON POROUS SYSTEM HAS BEEN VERIFIED FOR COMPLIANCE IN ACCORDANCE WITH THE 2023 (EIGHTH EDITION) OF THE FLORIDA BUILDING CODE (FBC) . THIS SYSTEM SHALL NOT BE INSTALLED IN THE HIGH VELOCITY HURRICANE ZONE (MIAMI-DADE/ BROWARD COUNTIES) NOR ESSENTIAL FACILITIES. THE ADEQUACY FOR IMPACT, DEFLECTION AND FATIGUE RESISTANCE HAS BEEN VERIFIED IN ACCORDANCE WITH SECTION 1609 OF THE ABOVE REFERENCED CODE, AND AS PER TAS 201, TAS 202 and TAS 203 PROTOCOLS.
- 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 7-20 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 Kd=0.85 IS ALLOWED.
- IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 MISSILE LEVEL 'D' AS LISTED HEREIN.
- 4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 5g. 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.
- 56. 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 SOUDNESS OF THE STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
- 5c. 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.
- 6. THIS PED SHALL BEAR THE DATE AND ORIGINAL SEAL OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.
- 7. THIS SYSTEM MAY ALSO BE INSTALLED HORIZONTALLY FOLLOWING INSTALLATION DETAILS SHOWN HEREIN.
- 8. 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 DETERIORATION OR OTHERWISE INHIBIT THEIR ADEQUACY AS AN IMPACT RESISTANT SYSTEM.

PER FBC 2020 NO MINIMUM SEPARATION FROM GLASS IS REQUIRED.

THE MAXIMUM SIZE SHALL BE 80 PSF MAX. PRESSURE @214 INCHES MAXIMUM SPAN. SEE TABLE ON SHEET 1/2.

- RESERVED.
- 11. 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.
- 12. ALL BOLTS TO BE ASTM A307, GALVANIZED OR 304 SERIES STAINLESS STEEL WITH A MINIMUM 36 KSI YIELD STRENGTH.
- 13. 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 (ITW BUILDEX) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TEXTRON) 1/4 IN. DIA.
 - MINIMUM EMBEDMENT INTO HOLLOW CONCRETE BLOCK MASONRY FOR TAPCON ANCHORS AND ELCO PANELMATES IS 1 1/4 IN., FILLED MASONRY EMBEDMENT IS 1 3/4".
 - NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED.
 - II. 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.
 - III. MINIMUM EDGE DISTANCE = 3.0°
 - B. POURED CONCRETE (f'c=3000 PSI MIN.)

 - TAPCON ANCHORS (ITW BUILDEX) OR PANELMATE MALE & FEMALE FASTENERS (ELCO TEXTRON) 1/4 IN. DIA.

 I. MINIMUM EMBEDMENT INTO POURED CONCRETE FOR TAPCON ANCHORS AND ELCO PANELMATES IS 1 3/4 IN.

 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.
 - PAYERS, 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 (Nominal 2x4(min) "Southern Pine" SG=0.55 OR GREATER)
 - TAPCON ANCHORS (ITW BUILDEX) DIA. OR PANELMATE MALE & FÉMALE FASTENERS (ELCO TEXTRON) 1/4 IN.
- I. MINIMUM EDGE DISTANCE' = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"). MINIMUM EMBEDMENT = 1-1/2"
- 14. MAXIMUM DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 1/2
- 15. 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:

HURRICANE FABRIC.COM LLC

PO BOX 50153; CLAYTON, MO 63105

FLORIDA PRODUCT APPROVAL NUMBER: FL-XXXX. OPENING NO.: XX

16. THIS DOCUMENT IN ITS ENTIRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS.

		FAS	TENER SPAC	CING OF A SI	NGLE UNIT :	SCREEN FOR	R ANY LENG	ГН АТТАСНЕ	ED WITH 3/8"	DROP-IN AN	ICHOR WITH	SIDEWALI	K BOLT (INC	HES)		
SCREEN SPAN	FILLED CMU (1900 PSI) PRESSURE (PSF)				CONCRETE (4000 PSI)			HOLLOW CMU			TIMBER					
						PRESSURE (PSF)			PRESSURE (PSF)			PRESSURE (PSF)				
	60	50	40	30	60	50	40	30	60	50	40	30	60	50	40	30
4'-0"	12	12	12	12	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	9	11	12	12
8'-0"	12	12	12	12	12	12	12	12	12	12	12	12	6	7	8	10
10'-0"	12	12	12	12	12	12	12	12	10	12	12	12	5	6	7	9
12'-0"	10	12	12	12	12	12	12	12	9	10	12	12	5	5	6	8
14'-0"	9	10	12	12	10	11	12	12	8	9	10	12	-	4	5	6
16'-0"	8	9	10	12	8	10	11	12	7	8	9	11	-	-	4	6
18'-0"	7	8	9	11	8	9	10	12	6	7	8	10	-	-	4	5

RETENTION CLIP END CONNECTOR:

RHODIA 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

FINISH: CALENDERED

WEIGHT (ASTM D-3776): 7.6 -OZ/SQUARE YARD

SELVAGE : HEAT CUT OR WOVEN

TENSILE STRENGTH (GRAB METHOD, ASTM D -4632): WARP - 495 lbs., WEFT - 425 lbs.

BURST STRENGTH (ASTM D - 3786): 825 PSI

TEAR STRENGTH (ASTM D - 4533): WARP - 185 lbs., WEFT - 170 lbs. ABRASION RESISTANCE (ASTM D -4886) 95% STRENGTH RETAINED

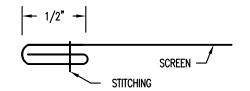
PUNCTURE STRENGTH (ASTM D -4833) 190 lbs.

UV RETENTION (ASTM D-G154): 77%

SEWING:

(1) SINGLE ROW OF STRAIGHT STITCH AT INTERVALS OF 1/2" MM USING 138 DENIER POLYESTER THREAD.

1/2" TRI-FOLDED ALL AROUND THE PERIMETER ONE CONTINUOUS SEWING



STITCHING DETAIL

1/2" SINGLE STITCH WEAVE SCREEN - N.T.S.

		FAS	TENER SPAC	CING OF A SI	NGLE UNIT	SCREEN FOR	R ANY LENG	TH ATTACHE	ED WITH 1/4"	ELCO PANEI	MATE PRO,	MALE & F	EMALE (INC	HES)		
		FILLED CM	U (1900 PSI)		CONCRETE (4000 PSI)			HOLLOW CMU			TIMBER					
SCREEN SPAN	PRESSURE (PSF)				PRESSURE (PSF)			PRESSURE (PSF)			PRESSURE (PSF)					
SFAIN -	60	50	40	30	60	50	40	30	60	50	40	30	60	50	40	30
4'-0"	12	12	12	12	12	12	12	12	11	12	12	12	10	11	12	12
6'-0"	11	12	12	12	12	12	12	12	8	9	10	12	7	8	9	12
8'-0"	7	8	10	12	8	9	11	12	5	6	7	9	5	5	6	8
10'-0"	6	7	8	10	7	8	9	11	4	5	6	7	-	4	5	6
12'-0"	5	6	7	9	6	7	8	9	-	4	5	6	-	-	4	6
14'-0"	4	5	6	7	5	5	6	8	-	-	4	5	-	-	-	5
16'-0"	-	5	5	6	4	5	6	7	-	-	-	5	-	-	-	4
18'-0"	_	_	5	6	_	1	5	6	_	_	_	1	_	_	_	

This item has been digitally signed and sealed John H. Kampmann Jr., PE by John Kampmann PE on the date of the Cagital seal on sheet 1. Printed copies of this FL License #: 47516 document are not considered signed and sealed DATE: and the signature must be verified on any hadronical consider.

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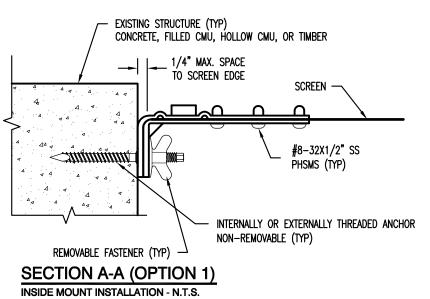
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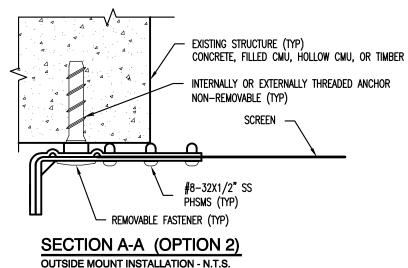
VELOCITY

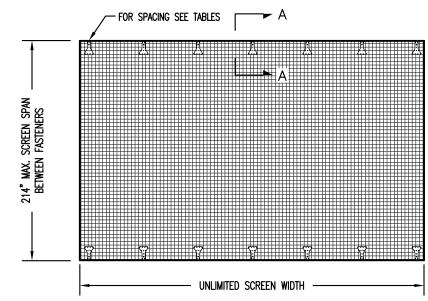
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10/19/2



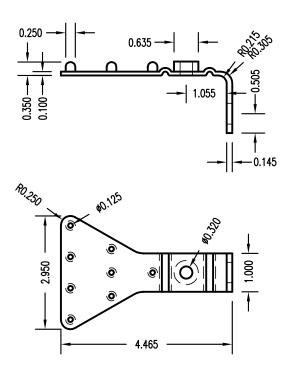


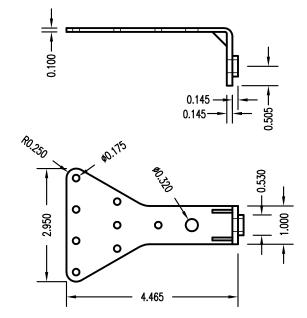


TYPICAL TWO-SIDED INSTALLATION

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





LOADS	S ON EXIST	ING STRU	JCTURE F	ROM					
SCREEN SYSTEM									
	$T_X = PARAL$	LEL LOA	DS (PLF)						
SCREEN	CREEN PRESSURE (PSF)								
SPAN	80	60	50	40					
4'-0"	240	270	190	180					
6'-0"	510	400	320	270					
8'-0"	630	510	430	330					
10'-0"	750	600	520	430					
12'-0"	870	620	600	510					
14'-0"	930	765	680	580					
16'-0"	1030	870	750	630					
18'-0"	1067	907	808	694					

LOADS ON EXISTING STRUCTURE FROM										
SCREEN SYSTEM										
T _Y = PERPENDICULAR LOADS (PLF)										
SCREEN	CREEN PRESSURE (PSF)									
SPAN	80	60	50	40						
4'-0"	160	120	100	80						
6'-0"	240	180	150	120						
8'-0"	320	240	200	160						
10'-0"	400	300	250	200						
12'-0"	480	360	300	240						
14'-0"	560	420	350	280						
16'-0"	640	480	400	320						
18'-0"	713	535	446	357						

Ty= See Tables on this sheet Ty= See Tables on this sheet (either direction)

BOTTOM MOUNTING CLIP DETAILS

INSIDE OR OUTSIDE MOUNT INSTALLATION - N.T.S.

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

This item has been digitally signed and sealed by John Kampmann PE on the date of the digital seal on sheet 1. Printed copies of this document are not considered signed and sealed and the signature must be verified on any

John H. Kampmann Jr., PE FL License #: 47516 DATE:

2023 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 8TH EDITION

Project Name:

ASTRO FLEX
HURRICANE

LLC

FABRIC.COM

Drawn: JK
Project #:23-045
Scale: NTS
Date: 10/19/23
Sheet No.:

System

Abatement

Wind