







Product Approval Menu > Product or Application Search > Application List > Application Detail

FI 15208-R5 Revision Application Type 2017 Code Version Approved Application Status

Comments Archived

Product Manufacturer

Address/Phone/Email

Authorized Signature

Technical Representative Address/Phone/Email

Quality Assurance Representative

Address/Phone/Email

Category Subcategory

Compliance Method

Florida Engineer or Architect Name who developed the Evaluation Report

Fiorida License

Certificate of Independence

Quality Assurance Entity Quality Assurance Contract Expiration Date

Validated By

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Impact Protective Systems

Removable

Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer

Evaluation Report - Hardcopy Received

John Kampmann Jr.

National Accreditation and Management Institute

12/31/2019

Frank L. Bennardo, P.E.

☑ Validation Checklist - Hardcopy Received

Referenced Standard and Year (of Standard)

Year Standard 2005 **ASTM E1886** 2005 **ASTM E1996** ASTM E330 2002 1994 TAS 201, 202, 203

FL 15208 R5 COI Certificate of Independence 17-0225.pdf

Equivalence of Product Standards Certified By

Sections from the Code

Product Approval Method

Method 1 Option D

Date Submitted Date Validated

10/20/2017 10/26/2017

Date Pending FBC Approval

10/26/2017

Date Approved

12/12/2017

Summary of Products

FL#	Model, Number or Name	Description						
15208.1	Astroguard	Fabric Hurricane Protection System						
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +60/-60 Other:		Installation Instructions FL15208 R5 II Installation Drawing 17-0226.pdf Verified By: John Henry Kampmann Jr., PE PE-47516 Created by Independent Third Party: Yes Evaluation Reports FL15208 R5 AE Product Evaluation Report 17-0226i.pdf Created by Independent Third Party: Yes						

Back Next

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Safe

THIS NON PORCUS SYSTEM HAS BEEN VERBTED FOR COMPLIANCE IN ACCORDANCE WITH THE 2014 (FIFTH EDITION) OF THE FLORIDA BUILDING CODE (FBC) . THIS SYSTEM SWILL HOT BE INSTALLED IN THE HIGH VELOCITY HURBICIANE ZONE (MAMI-DADE/ BROWNED COUNTIES), MOR ESSENTIAL FACULTIES. THE ADEQUACY FOR MAPICT, DEFLECTION AND FATICUE RESISTANCE HAS BEEN VERBTED IN ACCORDANCE WITH SECTION 1600 OF THE ABONE REPERBICED CODE, AND AS PER TAS 201, TAS 202 and TAS 203 PROTOCOLS AND ASTAL E330-02, ASTM E1886-05 AND ASTM E1996-05. SEE LIST OF REPORTS ON SHEET 1/2.

DESIGN PRESSURE REQUIREDATS OF A SPECIFIC STRE SWAL BE DETERMINED BY OTHERS IN CONFURMANCE TO SECTION 1609 OF THE FIRE FOR A BASIC WAND SPEED (ALLOWAGE STRESS DESIGN) AS REQUIRED BY THE JURISDICTION WHERE THE SYSTEM WILL BE INSTALLED, ULTIMATE DESIGN LOADS (UD) DETERMINED BY ASSE 7—10 SWALL BE REDUCED TO ALLOWAGE STRESS DESIGN LOADS (ASD) BY MALTIPLYING THE UD BY 0.6. TO COMPANE THEM TO THE ASD PRESSURE RATINGS SHOWN ON SHEET 1 AND 2. USE OF DIRECTIONALITY FACTOR K4—0.65 IS ALLOWED.

HENCT AND FANCIE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 HISSLE TIPE "D" AS LISTED HEREN. 80 33—1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.

THIS PRODUCT ENLIGITION COCUMENT (PED) DETAILED HEREN IS GENERIC AND DOES NOT PROMOE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVAITE FROM THE CONDITIONS DETAILED HEREN, A LICENSED ENCINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS TO BE USED IN COMMUNICION WITH THIS DOCUMENT.

SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA LICENSED ENGINEER OR ARCHITECT WHO WILL BECOME THE ENGINEER OF RECORD (EGR) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE PED ENGINEER OF RECORD, ACTING AS A THE CONTROCTOR AND / OR PERMIT HOLDER IS TO BE RESPONSIBLE FOR THE SILECTION, PURCHASE AND ASSILLATION OF THIS SYSTEM, INCLIDING VERBYING THE ADEQUACY OF THE EXISTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.

delegated dagmeer to the Ped Encameer shall subjet to this encameer the site specific dagminks for reven THIS PED SHALL BEAR THE DATE AND ORBINAL 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 HURBICANE OR OTHER TROPICAL STORM WARRINGS. SEASONAL OR PERMANENT INSTITUTION OR STORME OF THIS WIND ABATEMENT SYSTEM IN AREAS OF PROLONGED EXPOSURE TO DIRECT SUMLIGHT OR OTHER WEATHERING CONDITIONS MAY CAUSE MATERIAL DETERIORATION OR OTHERWISE INHIBIT THEIR ADEQUACY AS AN IMPACT RESISTANT SYSTEM.

LAMINIONS OF USE
PER FEC 2010 NO LAMINUM SEPARATION FROM GLASS IS REQUIRED.
THE MAXIMUM SIZE SHALL BE 80 PSF WAX. PRESSURE 0216 NOTHES WAXMUM SPAN. SEE TABLES ON SHEET 1/2 AND 2/2.

all screws to be stabless steel 304 or 316 series or corrosion resistant conted carbon steel with a 50 ks1 yeld strength and a 90 ks1 teksile strength all bolts to be astal abot, galvanzed or 304 seres standers steel with a mamagai 36 kg yeld strength.

anchors to structure (wall / floor / celing / system) shall be installed for manufacturers' recommendations and as follows:

A. CONCRETE BLOCK IMSONRY (ASTN C-90)

A. CONCRETE BLOCK IMSONRY (ASTN C-90)

TAPCON ANCHORS (THE BUILDEX) OR PANELIMITE IMALE & FEMALE FASTENERS (ELCO TEXTRON) — 1/4 IN. DA.

1. IMPRIAND EMBEDIAENT INTO STUCCO SHALL BE PERMITTED.

NO EMBEDIAENT INTO STUCCO SHALL BE PERMITTED.

1. PANERS, 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 BEHND (T.

HULL EDGE DISTANCE = 3.0

POURED CONCRETE (f°c=3000 PS MIN.)

TAPCON ANCHORS (TW BULLDEX) OR PANELMATE MALE & FEMALE FASTENERS (ELCD TEXTRON) — 1/4 IN. DIN.

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

NO EMBEDMENT INTO STUCCO SHALL BE PERMITTED. SCREMS TO BE 1/4"—20 X 1 3/4" FOR STUCCO, 1 1/4" WITH NO STUCCO.

II. PANERS, BRICKS OR OTHER PRE-CAST PRODUCTS LOCATED ON THE EXISTING STRUCTURE WILL OR FLOOR SHALL HAVE ANCHORS OF SUFFICIENT LENGTH TO PROPERLY ATTACH TO THE PRIMARY STRUCTURE BEHAND IT. IMUM EDGE DISTANCE = 3.0°

WOOD (Nominal 204(min) "Southern Pine" SG=0.55 OR GREATER)

TAPCON ANCHORS (ITW BUILDEX) DN. OR PAVELLIATE HALE & FEMALE FASTENERS (ELCO TEXTRON) — 1/4 IN.

1. HABBAUM EDGE DISTANCE = CENTER OF 2" NOMINAL LUMBER (APPROX. 3/4"). HABBAUM EMBEDMENT = 1-1/2"

HAZIMAN DESIGN PRESSURE VERSUS PANEL SPAN SHOWN ON SHEET 2/2

쟑 SCREEN PANEL'S IMMUFACTURER LABEL SWILL BE PLACED ON A REJULY AND VISIBLE LOCATION ON THE PANEL LABEL SWILL REJU AS FOLLOWS: ONE LABEL SHALL BE PLACED FOR EVERY OPENING

16. THIS DOCUMENT IN ITS ENTRETY WILL BE CONSIDERED INVALID IF IT IS ALTERED BY ANY MEANS. HURRICAME FARRIC LLC
PO BOX 50153; CLAYTON, IAO 63105
FLORDA PRODUCT APPROVAL NAMBER: FL-XXXX. OPENNG NO.: XX

			_	_	_						
18 -0	16'-0"	14'-0"	12°-0°	10-0	8-0	6-0	4.0		SPAN	N3DCO3	
		4	Çī.	6	7	11	12	60			
	5	5	6	7	8	12	12	50	PRESSU	FILLED CMU (1900 PSI)	FAS
5	5	6	7	8	10	12	12	40	PRESSURE (PSF)	u (1900 PSI)	TENER SPA
6	6	7	9	10	12	12	12	36			CING OF A S
•	4	5	6	7	8	12	12	88			INGLE UNIT
+	5	5	7	8	9	12	12	50	PRESSU	CONCRETI	SCREEN FO
£	6	6	8	9	11	12	12	40	PRESSURE (PSF)	CONCRETE (4000 PSI)	RANYLENG
6	7	8	9	11	12	12	12	30			FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" ELCO PANELMATE PRO, MALE & FEMALE (INCHES)
-	•	-	-	+	5	8	11	60			D WITH 1/4"
•	•	-	4	5	6	9	12	50	PRESSURE (PSF)	HOLLOWCHI	ELCO PANEI
•	•	1	5	6	7	10	12	40	E (PSF)	CMU	MATE PRO,
•	5	5	6	7	9	12	12	30			MALE & FE
	•	-	-	•	5	7	10	80			MALE (INCI
•	-			4	5	8	11	50	PRESSU	WET	ŧES)
,	•		4	ა	6	9	12	40	RESSURE (PSF)	MBER	
•	4	5	6	6	8	12	12	30			

FILLED CANU (1900 PSI) FASTENER SPACING OF A SANGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 38" DROP-IN CONCRETE (4000 PSI) ANCHOR WITH SIDEWALK BOLT (INCHES)

TAS 202 — UNIFORM STATE LONGS
TAS 201, TAS 202 — LARGE MESSIE MAPICT RESISTANCE &
CYCLIC LONGWIC PERFORMANCE ASTM E330-02 - UNITORN STATIC LONDS
ASTM E1888-05 & ASTM E1988-05 - LARGE MISSILE TIPE
TO IMPACT RESISSANCE & CYCLIC LONDING
PERFORMANCE

LAB NO.: 5804 DATED 01/13/2009

LIST OF REPORTS

LAB NO.: 6418 DATED 12/7/2010

EVALUATION BASED ON:

LABORATORY, INC

2014 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 5TH EDITION

ASTRO GUARD Wind Abatement System HURRICANE FABRIC LLC

SPLICE

ETAIL

xx/xx/xx-RESERVED

NO SEMING AT EDGES

ONLY SEMING IS AT SPLICE

Pensie Strength (Grab Method, Astm D Burst Strength (Astm D — 3786): 1,000 Abrason Resistance (Astm D —4886) 95

STRENGTH RETAINED

rinsk resik comed Height (asta d-3776): 9.0 -07/square

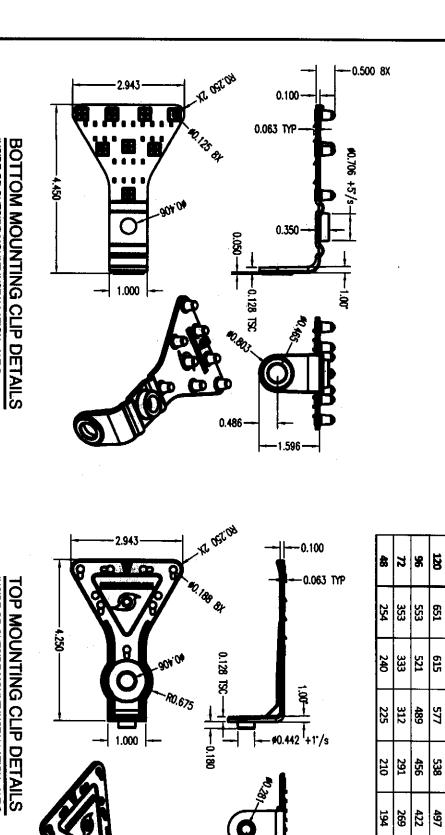
Fiber Contidut: Textule Fabric Construction: 20 x 20 Weaks

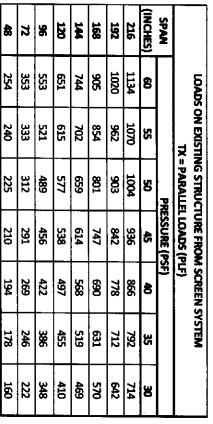
FABRIC SPECIFICATION

RHOOM ENGINEERING PLASTICS - POLYMAI

RETENTION CLIP BID CONNECTOR:

CA #6782





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

VERTICAL OR HORIZONTAL INSTALLATION - N.T.S.

TYPICAL TWO-SIDED INSTALLATION

UNLIMITED SCREEN WIDTH

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

REMOVABLE FASTENER (TYP)

INTERNALLY OR EXTERNALLY THREADED A NON-REMOVABLE (TYP)

6-32X1/2" SS PHSMS (TYP)

216" MAX. SCREEN SPAN BETWEEN FASTENERS

FOR SPACING SEE TABLES

>

EXISTING STRUCTURE (TYP)
CONCRETE, FILLED CMU, HOLLOW CMU, OR TIMBER

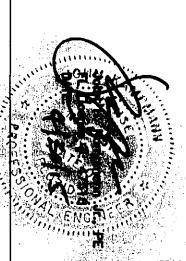
1/4" IMX. SPACE

SCREEN

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

48	72	96	120	144
120	180	240	300	360
110	165	220	275	330
100	150	200	250	300
90	135	180	225	2/0
80	120	160	200	240
70	105	140	175	017
				Γ

46	n	96	120	144	168	192	216	(INCHES)	SPAN	
120	180	240	300	360	420	480	540	60		LOADS
110	165	220	275	330	385	440	495	55		ON EXISTI TY = P
100	150	200	250	300	350	400	450	50	2	NG STRUC ERPENDICL
99	135	180	225	270	315	360	405	85	PRESSURE (PSF	LOADS ON EXISTING STRUCTURE FROM SCREEN SYSTEM TY = PERPENDICULAR LOADS (PLF)
8	120	160	200	240	280	320	360	8	S F)	A SCREEN S S (PLF)
70	105	146	175	210	245	280	315	8		YSTEM
60	98	120	150	180	210	240	270	30		



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

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

2014 FBC (NON-HIGH VELOCITY HUMPICANE ZONE) 5TH EDITION

SEE THELES ON THIS SHEET (EITHER DIRECTION)

SEE THEIRS ON THE SHEEL

ASTRO GUARD Wind Abatement System

HURRICANE FABRIC LLC PO BOX 50153 CLAYTON, MO 63105 PHONE: (238)609-0009 WWW.HURRICANEFABRIC.COM

DESCRIPTION xx/xx/xx-RESERVED CA #6782

DOSTING STRUCTURE (N

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Interwally or externally threaded anchor Non-Remonree (ULP)