

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 THE ABOVE REFERENCED CODE, AND AS PER TAS 201, TAS 202 and TAS 203 PROTOCOLS AND ASTM E330-02, ASTM E1886-05 AND ASTM E1996-05. SEE LIST OF REPORTS ON SHEET 1/2.
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.
3. IMPACT AND FATIGUE RESISTANCE HAS BEEN DETERMINED IN ACCORDANCE WITH THE FBC SECTION 1609.1.2 MISSILE TYPE "D" AS LISTED HEREIN.
4. NO 33-1/3% INCREASE IN ALLOWABLE STRESS INCREASE HAS BEEN USED IN THE DESIGN OF THIS PRODUCT.
- 5a. 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.
- 5b. 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.
9. LIMITATIONS OF USE
PER FBC 2020 NO MINIMUM SEPARATION FROM GLASS IS REQUIRED.
THE MAXIMUM SIZE SHALL BE 60 PSF MAX. PRESSURE Ø216 INCHES MAXIMUM SPAN. SEE TABLES ON SHEET 1/2.
10. RESERVED.
11. ALL SCREWS TO BE STAINLESS STEEL 304 OR 316 AISI SERIES OR CORROSION RESISTANT COATED CARBON STEEL WITH A 50 KSI YIELD STRENGTH AND A 90 KSI TENSILE STRENGTH. AND SHALL COMPLY WITH FBC SECTIONS 2411.3.3.4 AND 1711.
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.
I. 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.
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"

C. WOOD (Nominal 2x4(min) "Southern Pine" SG=0.55 OR GREATER)
TAPCON ANCHORS (ITW BUILDEX) DIA. OR PANELMATE MALE & FEMALE 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 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.

RETENTION CLIP END CONNECTOR:

RHODIA ENGINEERING PLASTICS - POLYAMIDE 66

FABRIC SPECIFICATION:

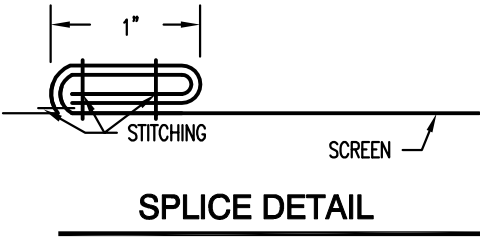
FIBER CONTENT: TEXTILE FABRIC
CONSTRUCTION: 20 X 20 WEAVE
FINISH: RESIN COATED
WEIGHT (ASTM D-3776): 9.0 -OZ/SQUARE YARD
TENSILE STRENGTH (GRAB METHOD, ASTM D -4632): WARP - 570 lbs., WEFT - 570 lbs.
BURST STRENGTH (ASTM D - 3786): 1,000 PSI
ABRASION RESISTANCE (ASTM D -4886) 95% STRENGTH RETAINED

SEWING:

ONLY SEWING IS AT SPLICE

EDGES:

NO SEWING AT EDGES



FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 3/8" DROP-IN ANCHOR WITH SIDEWALK BOLT (INCHES)																
SCREEN SPAN	FILLED CMU (1900 PSI)				CONCRETE (4000 PSI)				HOLLOW CMU				TIMBER			
	PRESSURE (PSF)				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	12	10	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

EVALUATION BASED ON:
FENESTRATION TESTING LABORATORY, INC

LAB NO.: 6418 DATED 12/7/2010

ASTM E330-02 - UNIFORM STATIC LOADS
ASTM E1886-05 & ASTM E1996-05 - LARGE MISSILE TYPE
"D" IMPACT RESISTANCE & CYCLIC LOADING
PERFORMANCE

LAB NO.: 5804 DATED 01/13/2009

TAS 202 - UNIFORM STATIC LOADS
TAS 201, TAS 202 - LARGE MISSILE IMPACT RESISTANCE &
CYCLIC LOADING PERFORMANCE

LIST OF REPORTS



John Henry
Kampmann
Jr.
2026.10.08
14:26:
15-04'00'

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 electronic copies.

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

FASTENER SPACING OF A SINGLE UNIT SCREEN FOR ANY LENGTH ATTACHED WITH 1/4" ELCO PANELMATE PRO, MALE & FEMALE (INCHES)																
SCREEN SPAN	FILLED CMU (1900 PSI)				CONCRETE (4000 PSI)				HOLLOW CMU				TIMBER			
	PRESSURE (PSF)				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	11	12	12	12	10	11	12	12
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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	-	4	5	6	-	-	-	4	-	-	-	-

2026 FBC (NON-HIGH VELOCITY HURRICANE ZONE) 9TH EDITION

Description:

Drawn: JK

Project #: 26-1008-1

Scale: NTS

Date: 10/08/26

Sheet No.:

1/2

Project Name:

ASTRO GUARD
Wind Abatement System

HURRICANE FABRIC LLC

PO BOX 50153
CLAYTON, MO 63105
PHONE: (239)699-0099
WWW.HURRICANEFABRIC.COM

REV.

1

DESCRIPTION

xx/xx/xx - RESERVED

CA #6752
WWW.MEAENGINEERS.COM



5856 Lawton Drive
Sarasota, Florida 34233
(941) 922-3854 CA-6072

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PO BOX 50153; CLAYTON, MO 63105
FLORIDA PRODUCT APPROVAL NUMBER: FL-XXXX. OPENING NO.: XX
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RETENTION CLIP END CONNECTOR:

RHODIA ENGINEERING PLASTICS - POLYAMIDE 66

FABRIC SPECIFICATION:

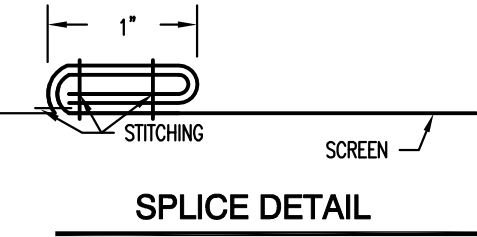
FIBER CONTENT: TEXTILE FABRIC
CONSTRUCTION: 20 X 20 WEAVE
FINISH: RESIN COATED
WEIGHT (ASTM D-3776): 9.0 -OZ/SQUARE YARD
TENSILE STRENGTH (GRAB METHOD, ASTM D -4632): WARP - 570 lbs., WEFT - 570 lbs.
BURST STRENGTH (ASTM D - 3786): 1,000 PSI
ABRASION RESISTANCE (ASTM D -4886) 95% STRENGTH RETAINED

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10'-0"	12	12	12	12	12	12	12	12	10	12	12	12	5	6	7	9
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18'-0"	7	8	9	11		9	10	12	6	7	8	10	-	-	4	5

EVALUATION BASED ON:
FENESTRATION TESTING LABORATORY, INC

LAB NO.: 6418 DATED 12/7/2010

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ASTM E1886-05 & ASTM E1996-05 - LARGE MISSILE TYPE
"D" IMPACT RESISTANCE & CYCLIC LOADING
PERFORMANCE

LAB NO.: 5804 DATED 01/13/2009

TAS 202 - UNIFORM STATIC LOADS
TAS 201, TAS 202 - LARGE MISSILE IMPACT RESISTANCE &
CYCLIC LOADING PERFORMANCE

LIST OF REPORTS

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

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Drawn: JK

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Date: 10/08/26

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1/2

Project Name:

HURRICANE FABRIC LLC

PO BOX 50153
CLAYTON, MO 63105
PHONE: (239)699-0099
WWW.HURRICANEFABRIC.COM

ASTRO GUARD
Wind Abatement System

REV.

1

DESCRIPTION
xx/xx/xx - RESERVED

CA #6752
WWW.MEAENGINEERS.COM

MEAE
ENGINEERS, INC.

5856 Lawton Drive
Sarasota, Florida 34233
(941) 922-3854 CA-6072