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Product Approval

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- ▶ COMMUNITY PLANNING
- ▶ HOUSING & COMMUNITY DEVELOPMENT
- ▶ EMERGENCY MANAGEMENT
- ▶ OFFICE OF THE SECRETARY

FL # FL7625
 Application Type New
 Code Version 2004
 Application Status Approved
 Comments
 Archived

Product Manufacturer CAT-5 Protection, Inc.
 Address/Phone/Email 160 SW 12th Ave. Suite 106
 Deerfield Beach, FL 33442
 (954) 571-9718 ext 0
 info@hurricane-net.com

Authorized Signature Pomerantz Jorge
 ingconsultants@yahoo.com

Technical Representative
 Address/Phone/Email

Quality Assurance Representative
 Address/Phone/Email

Category Shutters
 Subcategory Products Introduced as a Result of New Technology

Compliance Method Evaluation Report from a Florida Registered Architect
 Licensed Florida Professional Engineer
 Evaluation Report - Hardcopy Received

Florida Engineer or Architect Name Jorge A. Pomerantz
 who developed the Evaluation Report
 Florida License PE-55326

Quality Assurance Entity PFS Corporation
 Validated By Michael LeComte, PE

Certificate of Independence [FL7625_R0_COI_Cert_Indep.pdf](#)

Referenced Standard and Year (of Standard)	Standard	Year
	ASTM E1886	2002
	ASTM E1996	2002
	ASTM E330	2002
	TAS 201	1994
	TAS 202	1994
	TAS 203	1994

Equivalence of Product Standards
 Certified By

Sections from the Code

Product Approval Method Method 1 Option D

Date Submitted 09/22/2006
 Date Validated 12/11/2006
 Date Pending FBC Approval 10/05/2006
 Date Approved 12/11/2006

Summary of Products

FL #	Model, Number or Name	Description
7625.1	CAT-5 Hurricane Net	Impact Resistant Shutter System
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: +96.7 /-96.7 Other: See installation drawing for additional limits of use.		Installation Instructions FL7625_R0_II_Appvl_Dwg.pdf Verified By: Jorge A. Pomerantz, PE PE Evaluation Reports FL7625_R0_AE_06-027_ASTM.pdf FL7625_R0_AE_06-027_TAS.pdf FL7625_R0_AE_Calculations.pdf FL7625_R0_AE_Eval_Report.pdf

CAT-5 IMPACT PROTECTION APPROVAL DOCUMENT



INC Consultants, Inc.
 428 NW 70TH AVE., #135
 PLANTATION, FL 33317
 (954) 394-8521
 CERT OF AUTHORIZATION #27242

CAT-5 PROTECTION, INC.
 160 S.W. 12TH AVENUE, #106
 DEERFIELD BEACH, FL 33442
 www.hurricane-net.com
 CAT-5 HURRICANE NET
 IMPACT RESISTANT WIND ABATEMENT SYSTEM
 FLORIDA STATE PRODUCT APPROVAL

DATE	DRWN	CHKD	REMARKS
02/20/08	LRP	LRP	REVISIONS
12/08/08	CL	JP	COMMENTS

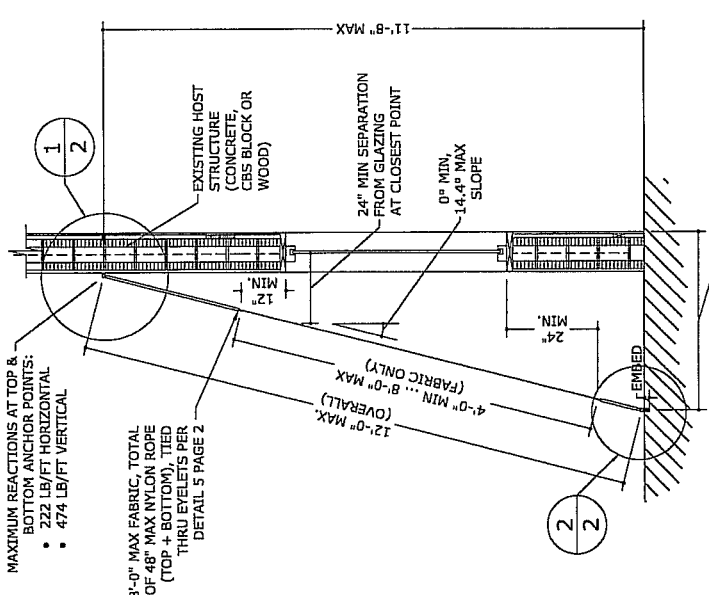
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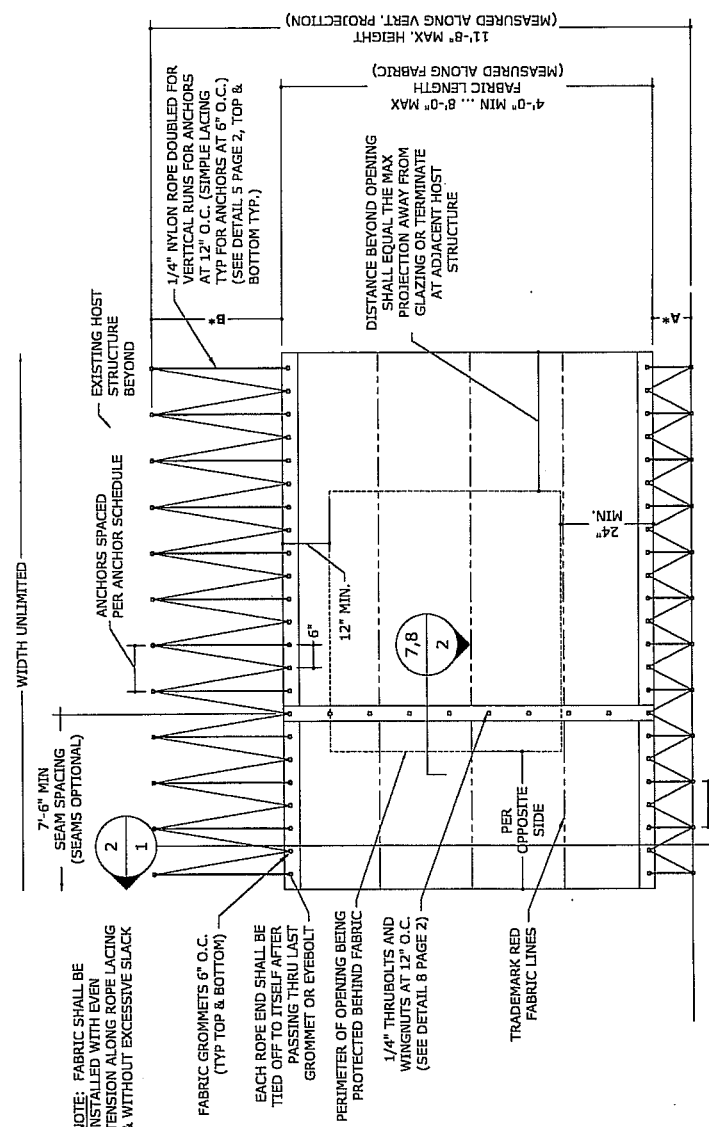
SCALE: 3/8" = 1'-0"

PAGE DESCRIPTION:

1



2 VERTICAL SECTION
 3/8" = 1'-0"



1 EXTERIOR ELEVATION
 3/8" = 1'-0"

MAXIMUM ALLOWABLE PRESSURES
 +96.7 PSF
 -96.7 PSF

- GENERAL NOTES**
- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER ASTM E330, E1886, & E1996 TEST STANDARDS
 - NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR CD=1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN. #2 DOUG. FIR OR SYP MIN REQUIRED.
 - POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED BY OTHERS ON A JOB-SPECIFIC BASIS IN ACCORDANCE WITH THE GOVERNING CODE.
 - MULTIPLE UNITS MAY BE INSTALLED TO UNLIMITED WIDTH AS SHOWN.
 - THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT

- SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS AND CALCULATED REACTIONS.
 - TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
 - FABRIC IS COMPOSED OF PLAIN WEAVE FABRIC CONSISTING OF 0.30" DIAMETER VINYL COATED DOUBLE DENIER STRAND POLYESTER CORE YARNS IN WARP AND FILL.
 - ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

NOTE: FABRIC SHALL BE INSTALLED WITH EVEN TENSION ALONG ROPE LACING & WITHOUT EXCESSIVE SLACK

FABRIC GROMMETS 6" O.C. (TOP & BOTTOM)
 EACH ROPE END SHALL BE TIED OFF TO ITSELF AFTER PASSING THRU LAST GROMMET OR EYEBOLT
 PERIMETER OF OPENING BEING PROTECTED BEHIND FABRIC
 1/4" THRU-BOLTS AND WINGNUTS AT 12" O.C. (SEE DETAIL 8 PAGE 2)

PER OPPOSITE SIDE
 TRADEMARK RED FABRIC LINES

* SUM OF DIMENSIONS "A" AND "B" SHALL BE 48" OR LESS

DISTANCE MAY VARY, PROVIDED THAT GLASS SEPARATION & SLOPE ARE MAINTAINED

MAXIMUM REACTIONS AT TOP & BOTTOM ANCHOR POINTS:
 • 222 LB/FT HORIZONTAL
 • 474 LB/FT VERTICAL

8'-0" MAX FABRIC, TOTAL OF 48" MAX NYLON ROPE (TOP + BOTTOM), TIED THRU EYELETS PER DETAIL 5 PAGE 2

11'-8" MAX. HEIGHT (MEASURED ALONG VERT. PROJECTION)

4'-0" MIN. ... 8'-0" MAX FABRIC LENGTH (MEASURED ALONG FABRIC)

DISTANCE BEYOND OPENING SHALL EQUAL THE MAX PROJECTION AWAY FROM GLAZING OR TERMINATE AT ADJACENT HOST STRUCTURE

1/4" NYLON ROPE DOUBLED FOR VERTICAL RUNS FOR ANCHORS AT 12" O.C. (SIMPLE LACING TYP FOR ANCHORS AT 6" O.C.) (SEE DETAIL 5 PAGE 2, TOP & BOTTOM TYP.)

ANCHORS SPACED PER ANCHOR SCHEDULE

EXISTING HOST STRUCTURE BEYOND

EXISTING HOST STRUCTURE BEYOND

ANCHORS SPACED PER ANCHOR SCHEDULE

EXISTING HOST STRUCTURE BEYOND

WIDTH UNLIMITED

7'-6" MIN SEAM SPACING (SEAMS OPTIONAL)

12" MIN.

6"

24" MIN.

11'-8" MAX

11'-8" MAX

12" MIN.

7/8"

0° MIN, 1/4" MAX SLOPE

7/8"

12'-0" MAX (OVERALL)

4'-0" MIN ... 8'-0" MAX (FABRIC ONLY)

24" MIN.

EMBED

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

12'-0" MAX

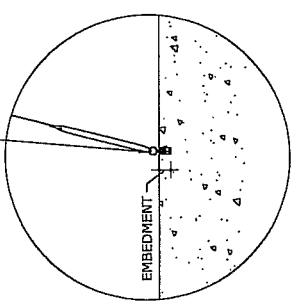
12'-0" MAX

12'-0" MAX

12'-0" MAX

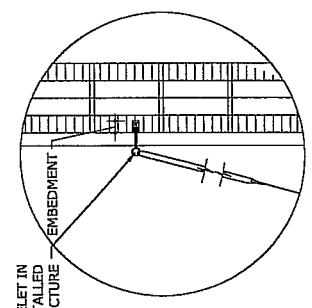
12'-0" MAX

1/4" CAST STEEL EYELET IN LEAD ANCHOR INSTALLED INTO HOST STRUCTURE

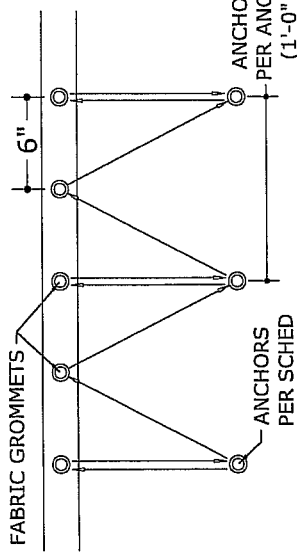


2 SILL TO CONCRETE (OPTIONAL) 2 N.T.S.

1/4" CAST STEEL EYELET IN LEAD ANCHOR INSTALLED INTO HOST STRUCTURE



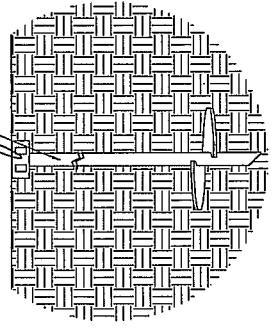
1 ATTACHMENT TO HOST STRUCTURE 2 N.T.S.



5 FABRIC LACING ATTACHMENT METHOD 2 N.T.S.

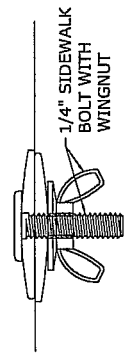
ANCHORS SPACED PER ANCHOR SCHED (1'-0" MAX O.C.)

ROPE & FABRIC SHALL BE CONNECTED TO ANCHOR PER DETAIL 5 & ANCHOR MFR'S SPECS

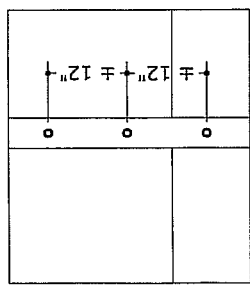


GROUND ANCHORS AT 12" O.C. SHALL BE DESIGNED TO RESIST THE FOLLOWING MINIMUM REACTIONS (PER ANCHOR):
TENSION: 222 LBS
SHEAR: 691 LBS

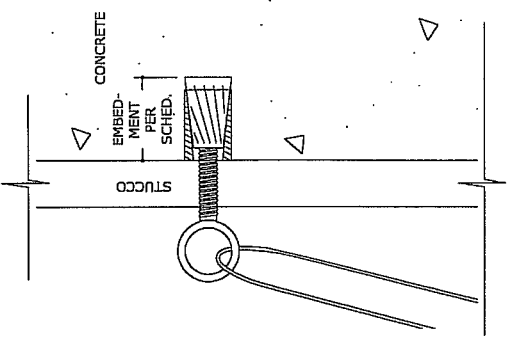
6 GROUND ANCHOR AT SILL (OPTIONAL) 2 N.T.S.



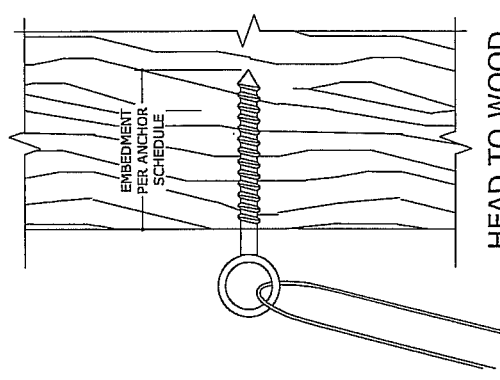
8 PANEL TO PANEL CONNECTION 2 N.T.S.



7 SEAM GROMMETS 2 N.T.S.



4 HEAD TO CONCRETE (OPTIONAL) 2 N.T.S.



3 HEAD TO WOOD (OPTIONAL) 2 N.T.S.

ANCHOR SCHEDULE

HOST STRUCT.	ANCHOR	EMBED	MAXIMUM SPACING	MAXIMUM ALLOWABLE PRESSURE
CONCRETE (3,000 PSI)	1/2-13 POWERS CALK-IN	1 1/2"	12.0"	±96.7 P.S.F.
	1/4-20 POWERS CALK-IN	7/8"	12.0"	±44.8 P.S.F.
	1/4-20 POWERS CALK-IN	7/8"	6"	±96.7 P.S.F.
BLOCK	1/2-13 POWERS CALK-IN (GROUT FILLED BLOCK ONLY)	1 1/2"	12"	±96.7 P.S.F.
	1/4-20 POWERS CALK-IN	7/8"	12"	±39.9 P.S.F.
	1/4-20 POWERS CALK-IN	7/8"	6"	±69.6 P.S.F.
WOOD	1/2" x 4" LAG SCREW	2 1/2"	6"	±81.8 P.S.F.
	3/8" x 4" LAG SCREW	2 1/2"	6"	±69.2 P.S.F.