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Product Approval

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- [COMMUNITY PLANNING](#)
 - [HOUSING & COMMUNITY DEVELOPMENT](#)
 - [EMERGENCY MANAGEMENT](#)
- Office of the

FL # FL9023
 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 who developed the Evaluation Report Jorge A. Pomerantz, P.E.
 Florida License PE-55326
 Quality Assurance Entity PFS Corporation
 Validated By Michael LeComte, PE

Certificate of Independence

[FL9023_R0_COI_Cert_Indep.pdf](#)

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D1929	1996
ASTM D2843	1999
ASTM D635	1998
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

06/06/2007

Date Validated

06/06/2007

Date Pending FBC Approval

06/12/2007

Date Approved

07/02/2007

Summary of Products

FL #	Model, Number or Name	Description
9023.1	CAT-5 Hurricane Net	Fabric Impact Resistant Hurricane Abate System
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: See installation drawing for additional limits of use.		Installation Instructions FL9023_R0_II_Dwg.pdf Verified By: Jorge A. Pomerantz, PE PE Evaluation Reports FL9023_R0_AE_Eval_Rpt.pdf

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[DCA Administration](#)

Department of Community Affairs
Florida Building Code Online
Codes and Standards
 2555 Shumard Oak Boulevard

CAT-5 IMPACT PROTECTION APPROVAL DOCUMENT



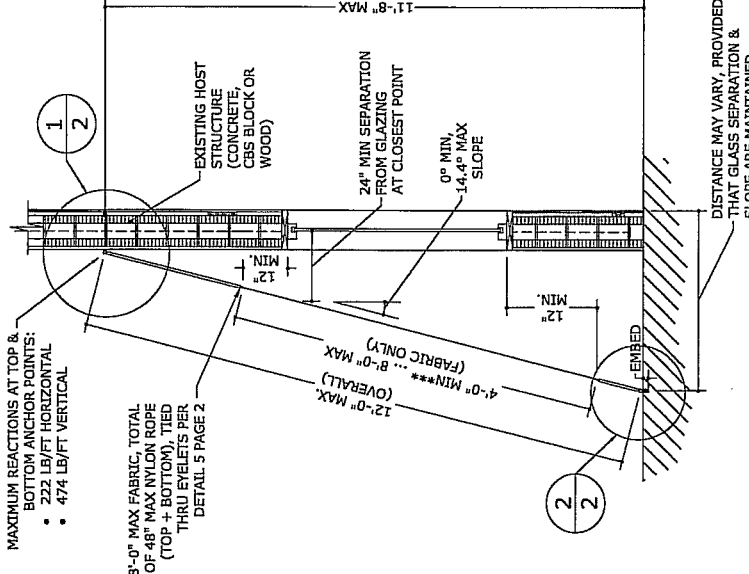
INC Consultants, Inc.
 428 NW 70TH AVE., #135
 PLANTATION, FL 33317
 (954) 394-8521
 CERT OF AUTHORIZATION #2742

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

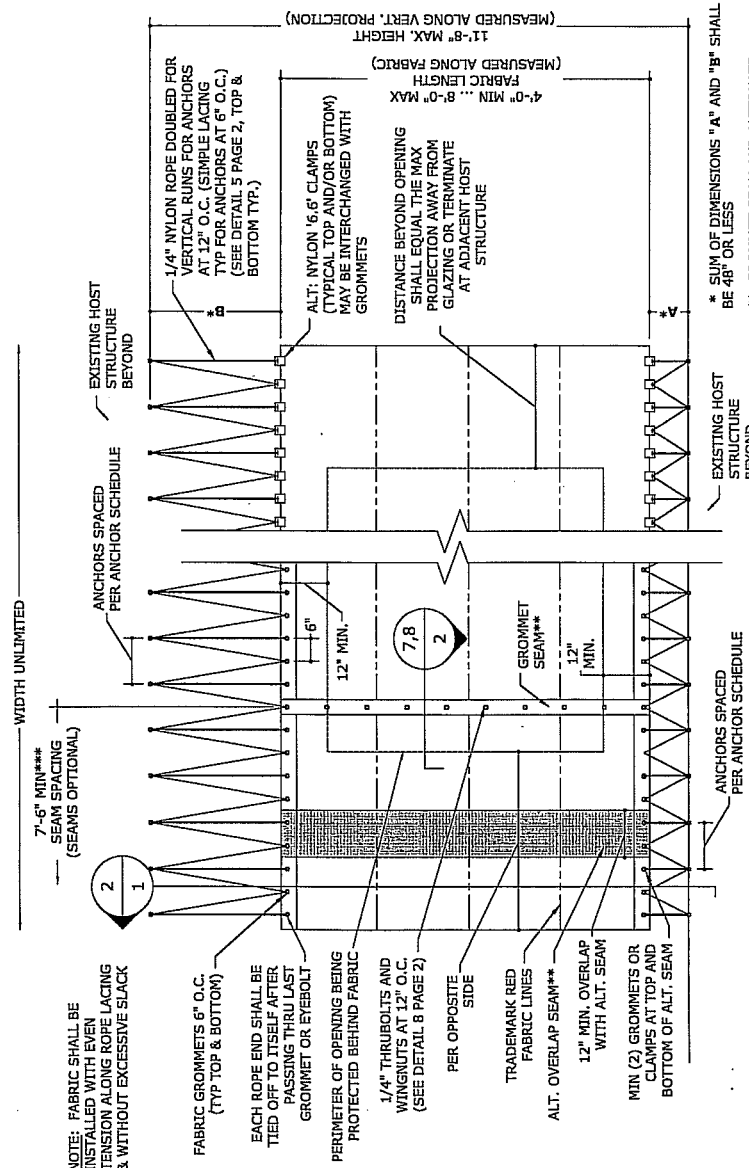
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0607-091-0
 SCALE: -
 PAGE DESCRIPTION: -

1



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



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

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE INCLUDING 2006 SUPPLEMENTS FOR USE WITHIN & OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER TAS 201, 202, & 203 TEST STANDARDS, AS WELL AS 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 OTHERING 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

MAXIMUM ALLOWABLE PRESSURES
±65.0 PSF WITH CLAMPS OR CLAMP/GROMMET COMBO
±86.7 PSF WITH GROMMETS

MAXIMUM DESIGN PRESSURES HAVE BEEN DETERMINED IN CONSIDERATION OF THE FABRIC'S POROSITY (46/72% OPEN) AND ALL HEMS & SEAMS.

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

12'-0" MAX (OVERALL)
 4'-0" MIN*** (FABRIC ONLY) ... 8'-0" MAX

11'-8" MAX HEIGHT (MEASURED ALONG VERT. PROJECTION)
 4'-0" MIN ... 8'-0" MAX FABRIC LENGTH (MEASURED ALONG FABRIC)
 ALT. NYLON 1/4" CLAMPS (TYPICAL TOP AND/OR BOTTOM) MAY BE INTERCHANGED WITH GROMMETS
 DISTANCE BEYOND OPENING SHALL EQUAL THE MAX PROJECTION AWAY FROM GLAZING OR TERMINATE AT ADJACENT HOST STRUCTURE

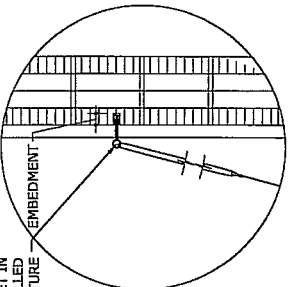
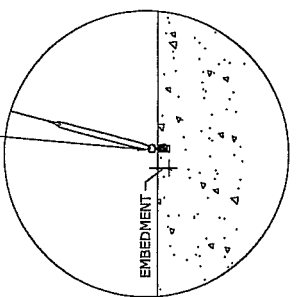
* SUM OF DIMENSIONS "A" AND "B" SHALL BE 48" OR LESS
 ** GROMMET SEAM AND ALTERNATE OVERLAP SEAM MAY BE USED W/ GROMMET-OR CLAMP-ATTACHMENT AT TOP AND BOTTOM.
 *** THESE DIMENSIONS MAY BE LESS THAN THOSE SHOWN, PROVIDED ALLOWABLE PRESSURES ARE ADJUSTED TO ACCOUNT FOR REDUCED POROSITY.

- 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 AS FIELD CONDITIONS DICTATE. PRODUCT MAY BE INSTALLED 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 WITH PROPERTIES PER THE MATERIAL SPECIFICATIONS LISTED IN THE PRODUCT EVALUATION REPORT.
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL GALVANIZED STEEL OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI.

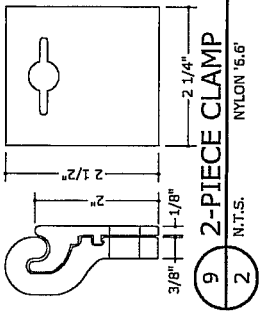
DATE	DRWN	CHKD	DATE	JEM	JAP	QD/08/07	CTS	CL

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



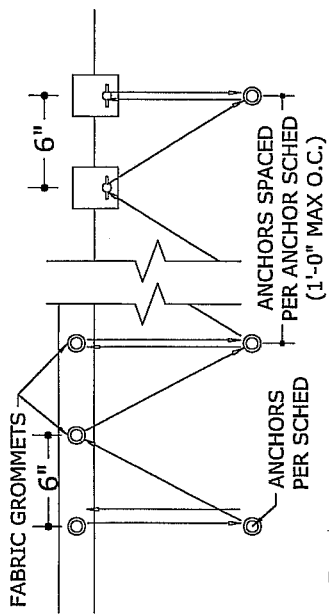
1/4" CAST STEEL EYELET IN LEAD ANCHOR INSTALLED INTO HOST STRUCTURE



9 2-PIECE CLAMP
 NYLON 6,6
 2 N.T.S.

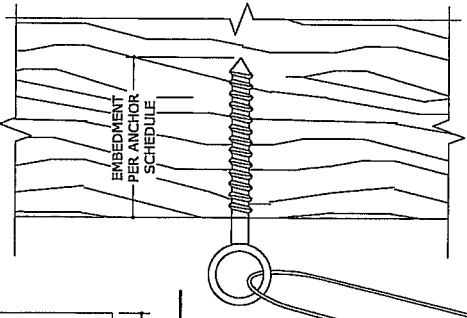
ATTACHMENT TO HOST STRUCTURE
 1 2 N.T.S.

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

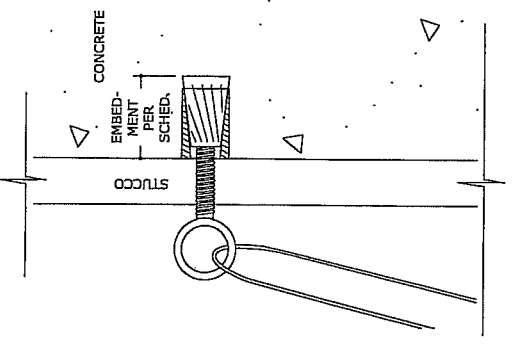


5 FABRIC LACING ATTACHMENT METHOD
 2 N.T.S.

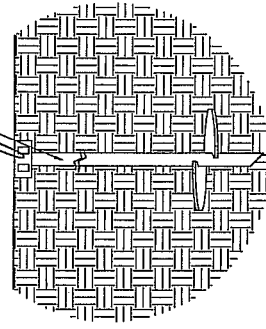
HEAD TO WOOD (OPTIONAL)
 3 2 N.T.S.



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



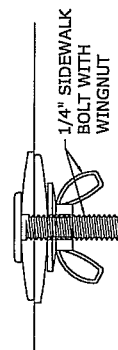
GROUND ANCHORS AT 12" O.C. SHALL BE DESIGNED TO RESIST THE FOLLOWING MINIMUM REACTIONS (PER ANCHOR):
 TENSION: 222 LBS
 SHEAR: 691 LBS



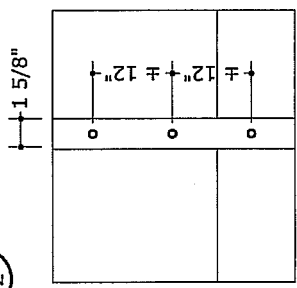
GROUND ANCHOR AT SILL (OPTIONAL)
 6 2 N.T.S.

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.



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



7 SEAM GROMMETS
 2 N.T.S.