

HURRICANE ENGINEERING & TESTING INC.

Computer Controlled Product Testing & Design,
.....Wind Load Analysis

Uniform Static Air Pressure Test (FBC TAS 202) (ASTM E 330-02) (Miami-Dade County Protocol PA 202-94)

December 2, 2003.

REPORT NUMBER: **HETI-03-1873**

MANUFACTURER: Wayne-Dalton Corporation.
3395 Addison Dr., Pensacola, FL 32514.

TEST LOCATION: Hurricane Engineering & Testing Inc.
6120 NW 97 AVE, Miami, FL 33178.

SBCCI LISTING No.: TL - 9596B.

LAB. CERT. NUMBER: 02-0415.01 (MIAMI-DADE COUNTY).

PRODUCT: Fabric Shield™ Storm Panel

PRODUCT DESCRIPTION: 0.037" thick PVC Coated Woven Polyester fabric.
(Reference Tensile Test Reports: HETI-04-T107, & HETI-04-T108).

PRODUCT SIZE: 63" w x 110 7/8" h

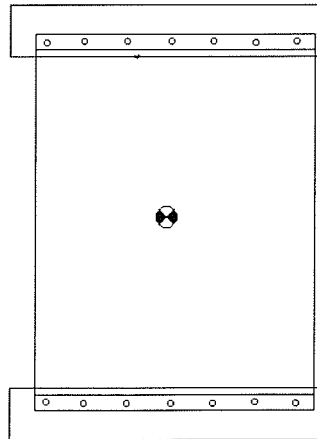
DESIGN LOADS (psf): **+62, -66**

DRAWING NUMBER: EX-04002, EX-04003, 01/09/2004, EX-03086 dated 2/17/03, and
EX-03125 dated 03/27/2003, EX02628 dated 11/05/03 by Wayne-
Dalton Corporation

NOTE: *HETI stamped drawing is an integral part of this report.*

TEST WITNESSED BY: Syed Waqar Ali, Ph. D. (HETI)
Dr. Nasreen K. Ali, E.I. (HETI)

WITNESSING ENGINEER: Mr. Rafael E. Droz-Seda, P.E. (HETI)



⊗ Gage Location

Handwritten signature and date:
3/21/04

Construction Details

PRODUCT Fabric Shield™ Storm Panel
PRODUCT SIZE 63" w x 110 7/8" h
Opening Size 62 7/8" x 106 1/4" h
Fabric Material
 A 0.037" PVC coated woven polyester fabric.

Storm Panel Construction

A piece of PVC coated woven polyester fabric were cut to 63" w x 119 3/8" h. The edge was folded twice creating a 3X fold and welded to create 63" x 110 7/8" panel. The finished edge on top and bottom was 2 1/8" wide.

Grommets

(7) 1/2" hole size x 1.05" flange DIA X 0.017" thick brass, trade size#4 grommet and grommet washer installed @12" O.C and at 1 7/16" from vertical edge along the top and (7) along the bottom of the fabric. The center of the grommets was 1 3/8" from edge of the fabric.

INSTALLATION

SUBSTRATUM SYP, 4x6 Wood,

INSTALLATION CHART

Location	Fastener Type	Spacing	Quantity
Bottom	1/4" x 2" (3.44" overall) Elco PANELMATE plus (male)	1 7/16" from end and 12" O.C. 0.75" from edge of substrate	Seven
Top	1/4" x 2" (3.44" overall) Elco PANELMATE plus (male)	1 7/16" from end and 12" O.C. 0.75" from edge of substrate	Seven

Test Results

Uniform Static Air Pressure Results

	Pressure (Psf)	Deflection at center (in)	Set (in)	Recovery (%)	Duration (seconds)
Positive Pressure					
Half test load	+47	10.49	0.00	100	30
Design Load	+62	11.19	0.00	100	30
Test Load	+93	12.50	0.00	100	30
Negative Pressure					
Half test load	-50	1.064	0.00	100	30
Design Load	-66	10.82	0.00	100	30
Test Load	-99	12.33	0.00	100	30

Uniform Load Test was performed in accordance with ASTM E330-02. No extension in fabric was observed.

Handwritten signature and date: 3/11/04

Conclusion

The sample was tested and passed for structural wind load only in accordance with Miami-Dade County protocol PA 202, Florida Building Code Test Application Standard TAS 202, and ASTM E 330-02 Test Standards as indicated along with the test results. The sample was structurally intact at the conclusion of the test.

NOTE: The above results were obtained using the designated test methods, which indicates compliance with the performance requirements of the referenced specifications. This report does not constitute certification of the specimens tested.

Syed Waqar Ali, Ph. D.
President

Rafael E. Droz-Seda, P.E.
Resident Engineer

3/11/04