



Received: 12/09/2014 Completed: 12/12/2014 Letter: L MM P.O.#: 11 10 2014 Test Report #: 3-05676-0-

Client's Identification Style: Hot Stop "L". Date of Mfg: Sept 2013. Composition: Proprietary Vermiculite Treated Fiberglass Fabric. Weight: 27 1/2 per sq yd. Thickness: .060. End Use: Fire Curtain

Tested For: **Scott Broer** Key Test: FDNY Large Scale Wind Test 3000
 KO Fire Curtain
 407 Ellison Ave Tel: 1-(516)-662-3900 Ext:
 Westbury, NY 11514 Fax: 1-()- -

PC: None Code : 1500 hr/4 hr minimum /bb/dl/mg

TEST PERFORMED: Fire Department New York Specification Test for Wind Control Device Fabric - Phase III: Wind Control Device Fabric Large Scale Wind Test

SCOPE: This test method is a single specimen test to determine the capability of the Wind Control Device Fabric with rebar to sustain the impinged wind for a ten minute duration, as defined by the Acceptance Criteria.

TEST SPECIMENS: Test specimens will be actual Wind Control Devices prepared in 6 ft. x 8 ft. dimensions.

INSTALLATION OF SPECIMEN: The specimen shall be installed and secured with appropriate Tension/cleats/tie down in accordance with manufacturer's instructions.

WIND VOLUME (Cubic Feet Per Minute): 150,000

WIND VELOCITY: 50 mph average over all window areas over the duration of the test as measured over 5 points (four corners and center).

PROCEDURE: A wind of the above specifications shall be imparted on the specimen under test for a duration of minimum 10 minutes. The distance from the wind generator to the specimen shall be 17 ft. (± 5 ft.)

RESULTS:

Specimen #	(a) Protrusion (inches)	(b) Lift/Flapping (inches)	(c) Tears/Stitch (inches)	(d) Seal Break (inches)	(e) Buckling/Gaps (inches)
1	0	1	0	0	0

NOTE: See Page 2 for "Conclusion"

Received: 12/09/2014	Completed: 12/12/2014	Letter: L	MM	P.O.#: 11 10 2014	Test Report #:	3-05676-0-
Client's Identification	Style: Hot Stop "L". Date of Mfg: Sept 2013. Composition: Proprietary Vermiculite Treated Fiberglass Fabric. Weight: 27 1/2 per sq yd. Thickness: .060. End Use: Fire Curtain					
Tested For: Scott Broer	Key Test: FDNY Large Scale Wind Test				3000	
KO Fire Curtain 407 Ellison Ave Westbury, NY 11514			Tel: 1-(516)-662-3900		Ext:	
			Fax: 1-()- -			

REQUIREMENTS (ACCEPTANCE CRITERIA): Over the duration of the test, as evidenced by the presence of a five inch breach when measured by the probing rod during the test, there shall be no:

- 1.) Protrusion of the specimen into the window frame
- 2.) Lift or flapping of the specimen
- 3.) Tears, rips or failure of stitch
- 4.) Failure of the seal to the window
- 5.) Buckling and gaps

ABBREVIATION USED:

CONCLUSION: Based on the above results, the item tested:

- Meets the requirements of the Acceptance Criteria.
 Does not meet the requirements of the Acceptance Criteria.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.

 AUTHORIZED SIGNATURE
 THE GOVMARK ORGANIZATION, INC. /je

Robert I. Brown

lpm

(Page 2 of 2)

DEC 17 2014

Received: 12/09/2014 | Completed: 12/12/2014 | Letter: L1 | MM | P.O.#: 11 10 2014 | Test Report #: 3-05676-1-

Client's Identification | Style: Hot Stop "L". Date of Mfg: Sept 2013. Composition: Proprietary Vermiculite Treated Fiberglass Fabric. Weight: 27 1/2 per sq yd. Thickness: .060. End Use: Fire Curtain

Tested For: Scott Broer | **Key Test: FDNY Large Scale Wind / Flammability Test** | 4970
 KO Fire Curtain
 407 Ellison Ave
 Westbury, NY 11514
Tel: 1-(516)-662-3900 | **Ext:**
Fax: 1-()- -

PC: None Code : 1500 hr/4 hr minimum /bb/dl/mg

TEST PERFORMED: Fire Department New York Specification Test for Wind Control Device Fabric - Phase IV: Wind Control Device Fabric Wind Force Resistance/Flammability Test

SCOPE: This test method is a single specimen 20 minute test to determine the capability of the Wind Control Device Fabric with rebar to sustain defined wind while in the presence of flame.

BURNER: Modified ASTM E 108

TEST SPECIMENS - Test specimens will be actual Wind Control Devices prepared in 6 ft. x 8 ft. dimensions. Quantity of 1 specimen will be utilized for this phase.

FUEL: Propane

BRUNER: Ref ASTM E 108 modified

BURNER DISTANCE: 1 ft. from inside face.

TEMPERATURE: 1,300°F average

PROCEDURE (Step Up Winds):

- a.) 20 mph for 5 min followed by
- b.) 30 mph for 5 min followed by
- c.) 40 mph for 5 min followed by
- d.) 50 mph for 5 min end of test

RESULTS:

Specimen #	(a) Flame Penetration (yes/no)	(c) Time of Penetration (mm:ss)	(d) Rope Burn Failure (yes/no)	(e) Displacement from Window Opening (inches)
1	No	DNO	No	1

DNO = Did Not Occur

Note: See Page 2 for "Conclusion".



Received: 12/09/2014	Completed: 12/12/2014	Letter: L1	MM	P.O.#: 11 10 2014	Test Report #:	3-05676-1-
Client's Identification	Style: Hot Stop "L". Date of Mfg: Sept 2013. Composition: Proprietary Vermiculite Treated Fiberglass Fabric. Weight: 27 1/2 per sq yd. Thickness: .060. End Use: Fire Curtain					
Tested For: Scott Broer KO Fire Curtain 407 Ellison Ave Westbury, NY 11514	Key Test: FDNY Large Scale Wind / Flammability Test				4970	
	Tel: 1-(516)-662-3900				Ext:	
	Fax: 1-()- -					

REQUIREMENTS (ACCEPTANCE CRITERIA): Over the duration of the test there shall be no:

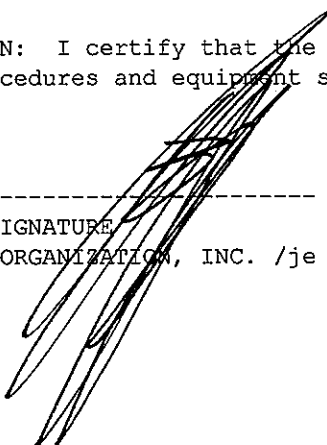
- 1.) Penetration of the flame.
- 2.) Rope burn failures (inability of the rope to support/secure the device).
- 3.) More than 5" displacement of the specimen from the window opening.

ABBREVIATION USED:

CONCLUSION: Based on the above results, the item tested:

- Meets the requirements of the Acceptance Criteria.
 Does not meet the requirements of the Acceptance Criteria.

CERTIFICATION: I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified above.



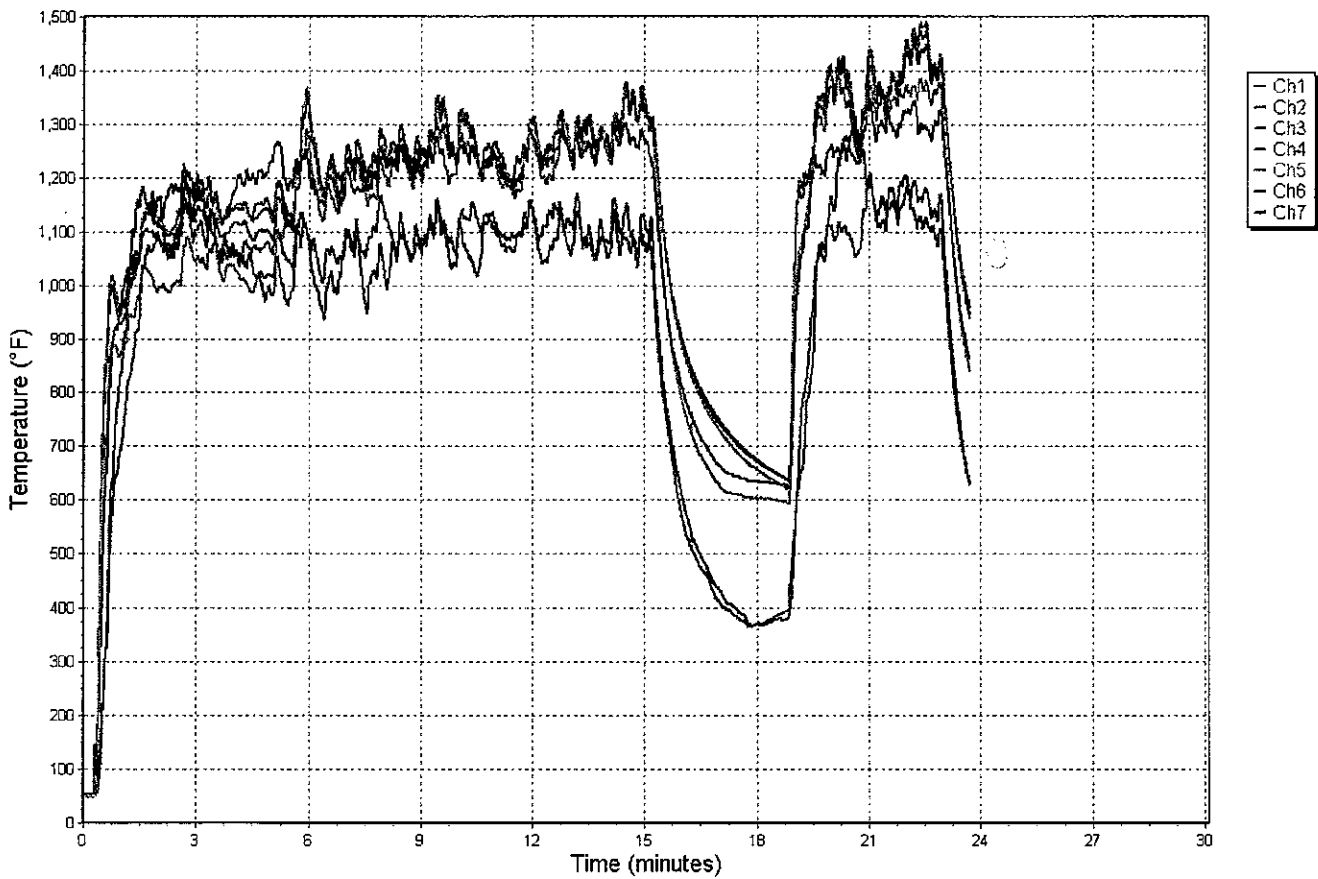
Robert I. Brown

AUTHORIZED SIGNATURE
THE GOVMARK ORGANIZATION, INC. /je

/pm

(Page 2 of 2)

DEC 17 2014



Channel	1	2	3	4	5	6	7	8
Max Temp (°F)	1474	1452	1288	1194	1397	1347	1491	n/a

Ceiling Middle window Top window Ceiling