



Quality Accuracy Assurance

Fenestration Testing Laboratory, Inc.

8148 N.W. 74th Avenue Medley, FL 33166 Phone: (305) 885-3328 Fax: (305) 885-3329 (888) 819-7877

e-mail: clientservices@fenlab.com www.ftl-inc.com

Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 1

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

MANUFACTURER: QMI Roll Shutter Supply

SPECIFICATIONS: Florida Building Code
TAS 201, TAS 202, TAS 203

ADDRESS: 1661 Glenlake Avenue
Itasca, IL 60143

PROJECT: Florida State Approval

DESCRIPTION OF SAMPLE	
Model Designation:	Series: Qcompact Wind Abatement Single Wall Aluminum Slat
Overall Size:	8'-7 7/8" (103 7/8") by 7'-10" (94") high
Number and Size of Slats:	Thirty three extruded aluminum slats each 8'-2" (98") long
Track to Track:	8'-0" (96") long
Mount Type:	Wall Mount
Sample A-1	

MATERIAL CHARACTERISTICS			
Members	Material**	Part Number**	Joint Type
Left Side Rail	6063-T6	QMI-664	none
Right Side Rail	6063-T6	QMI-671	none
Starter Slat	6063-T6	QMI-669	n/a
Slat No. 1	6063-T6	QMI-630	n/a
Slat No. 2	6063-T6	QMI-631	n/a
Slat No. 3	6063-T6	QMI-632	n/a
Slat No. 4	6063-T6	QMI-633	n/a
Slat No. 5	6063-T6	QMI-634	n/a
Slat No. 6	6063-T6	QMI-635	n/a
Slat No. 7	6063-T6	QMI-636	n/a
Slat No. 8	6063-T6	QMI-637	n/a
Slat No. 9	6063-T6	QMI-638	n/a
Slat No. 10	6063-T6	QMI-639	n/a
Slat No. 11	6063-T6	QMI-640	n/a
Slat No. 12	6063-T6	QMI-641	n/a



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 2

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Header Box Construction	Number of Fasteners	Size of Fasteners
Cover box fastened with	four	8 by 1/2" PH SDS

Weather-Stripping		
Quantity	Description	Location
Double row	pile	tracks on the interior and exterior
Single row	pile	bottom slat

Hardware				
Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS

Additional Information
Sample was test with one 3 5/16" diameter aluminum shaft. The right side of the shaft was slide in. The left side of the shaft was fastened using two 1 1/8" long flat head pin with key with one 3 1/4" by 3 1/4" aluminum plate. The aluminum plate was fastened to the header box using three 1/4-20 by 3/4" long flat head rivets screw with keps nut. Top slat was fastened to the shaft using a single row of No. 8 by 3/4" long truss head self drilling screw located from left of slat at 3", 13", 23 3/4", 34 3/4", 44 1/8", 54 3/4", 64 3/8", 74 3/4", 85" and 95 3/4". Sample was tested using a snap on extruded aluminum installation cover (part No. QMI-351) at each track. Header box was fastened to the concrete blocks at each end using two 1/4" by 2 3/4" long hex head Tapcon fasteners.



Engineer: Mr. Marlin D. Brinson P.E.

EL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 3

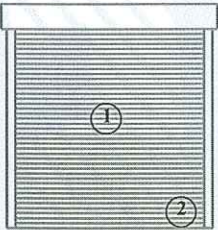
Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Sample Installation

Sample was tested in a steel chamber with concrete filled blocks at each side. Blocks were filled using **Quikrete Concrete Mix (minimum **2500 psi after seven days of cure time per specification). The tracks were installed onto the concrete blocks using a single row of 3/8" by 5" long hex head Power Wedge Bolts. Location of fastener are as follow: tracks from bottom; 3", 8", 13", 18", 23", 29", 34", 39", 44", 49", 54", 59", 64", 69", 74" and 79".

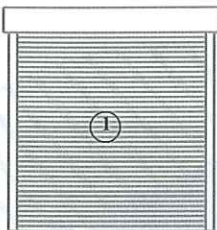
Sample: A-1	Temperature: 75.2°F	Barometric Reading: 30.15inches Hg		
Title of Test		Notes		
Large Missile Impact Test				
Missile Weight		Missile		
9.0 pounds		2" by 4" by 93" long		
				
Impact	Speed	Deflection	Results	Add. Info
1	49.8 ft/sec	5.750"	Passed	
2	49.8 ft/sec	3.250"	Passed	

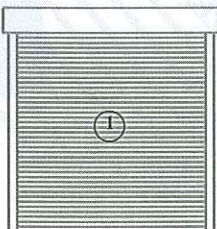


Engineer: Mr. Marlin D. Brinson P.E.
 FL License Number: 60749

Cert. No: TST1657
 Report Date: 4/19/2012
 Completion Date: 4/19/2012
 Expiration Date: 4/19/2022
 File Number: 12-200
 Page: 4
 Lab. Number: 6869
 Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: A-1	Temperature: 75.2°F	Barometric Reading: 30.15 inches Hg				
Title of Test		Positive Pressure		Notes		
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	8.375"	0.062"	Passed
0.0-0.6	70	2.5 sec				
0.0-1.3	1	2.5 sec				

Sample: A-1	Temperature: 77.9°F	Barometric Reading: 30.12 inches Hg				
Title of Test		Negative Pressure		Notes		
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.5 sec	1	9.250"	0.125"	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 5

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

DESCRIPTION OF SAMPLE	
Model Designation:	Series: Qompaet Wind Abatement Single Wall Aluminum Slat
Overall Size:	8'-7 7/8" (103 7/8") by 7'-10" (94") high
Number and Size of Slats:	Thirty three extruded aluminum slats each 8'-2" (98") long
Track to Track:	8'-0" (96") long
Mount Type:	Wall Mount
Sample A-2	

MATERIAL CHARACTERISTICS			
Members	Material**	Part Number**	Joint Type
Left Side Rail	6063-T6	QMI-664	butt joint
Right Side Rail	6063-T6	QMI-671	butt joint
Starter Slat	6063-T6	QMI-669	n/a
Slat No. 1	6063-T6	QMI-630	n/a
Slat No. 2	6063-T6	QMI-631	n/a
Slat No. 3	6063-T6	QMI-632	n/a
Slat No. 4	6063-T6	QMI-633	n/a
Slat No. 5	6063-T6	QMI-634	n/a
Slat No. 6	6063-T6	QMI-635	n/a
Slat No. 7	6063-T6	QMI-636	n/a
Slat No. 8	6063-T6	QMI-637	n/a
Slat No. 9	6063-T6	QMI-638	n/a
Slat No. 10	6063-T6	QMI-639	n/a
Slat No. 11	6063-T6	QMI-640	n/a
Slat No. 12	6063-T6	QMI-641	n/a
Header Box Construction	Number of Fasteners	Size of Fasteners	
Cover box fastened with	four	8 by 1/2" PH SDS	

Weather-Stripping		
Quantity	Description	Location
Double row	pile	tracks on the interior and exterior
Single row	pile	bottom slat



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 6

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Hardware				
Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS

Additional Information
Sample was test with one 3 5/16" diameter aluminum shaft. The right side of the shaft was slide in. The left side of the shaft was fastened using two 1 1/8" long flat head pin with key with one 3 1/4" by 3 1/4" aluminum plate. The aluminum plate was fastened to the header box using three 1/4-20 by 3/4" long flat head rivets screw with keps nut. Top slat was fastened to the shaft using a single row of No. 8 by 3/4" long truss head self drilling screw located from left of slat at 3", 13", 23 3/4", 34 3/4", 44 1/8", 54 3/4", 64 3/8", 74 3/4", 85" and 95 3/4". Sample was tested using a snap on extruded aluminum installation cover (part No. QMI-351) at each track. Header box was fastened at each end to the tubes using two No. 14 by 1 1/2" long hex head self drilling screws.



Engineer: Mr. Marlin D. Brinson P.E.
FL License Number: 60749

[Handwritten signature]

Cert. No: TST1657
Report Date: 4/19/2012
Completion Date: 4/19/2012
Expiration Date: 4/19/2022
File Number: 12-200
Page: 7
Lab. Number: 6869
Project Number: 12-3740

OFFICIAL TEST REPORT

Sample Installation

Sample was tested in a steel chamber with concrete filled blocks at each side. Blocks were filled using **Quikrete Concrete Mix (minimum **2500 psi after seven days of cure time per specification). Left side was installed using one 3" by 1" by 94" high aluminum tube. Left tube was fastened to the concrete blocks using a single row of 3/8" by 5" long hex head Power Wedge Bolts. Left track was fastened to the left tube using a single row of No. 14 by 3/4" long hex head sheet metal screws. Right side was installed using one 2" by 3" by 94" high aluminum tube. Right tube was fastened to the concrete blocks using a single row of 3/8" by 5" long Power Wedge Bolts. Right track was fastened to the right tube using a single row No. 14 by 3/4" long hex head sheet metal screws. Location of fasteners are as follows: left tube to concrete blocks from bottom, 1", 6", 11", 16", 21", 26", 31", 36", 41", 46", 51", 56", 61", 66", 71", 76", 81" and 86"; left track to left tube 3" from each end and 1 1/2" on center; right tube to concrete blocks from bottom, 1", 6", 11", 16", 21", 26", 31", 36", 41", 46", 51", 56", 61", 66", 71", 76", 81" and 86"; right track to right tube from bottom, 3" from each end and 1 1/2" on center.

Sample: A-2		Temperature: 77.0°F		Barometric Reading: 30.12 inches Hg	
Title of Test			Notes		
Large Missile Impact Test					
Missile Weight			Missile		
9.25 pounds			2" by 4" by 96" long		
Impact	Speed	Deflection	Results	Add. Info	
1	49.6 ft/sec	5.250"	Passed		
2	50.1 ft/sec	3.250"	Passed		
3	49.6 ft/sec	2.750"	Passed		



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

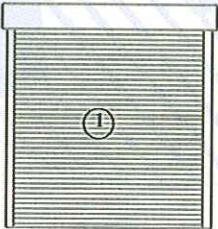
Page: 8

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: A-2	Temperature: 78.8°F	Barometric Reading: 30.12 inches Hg				
Title of Test		Positive Pressure			Notes	
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	8.500"	0.062"	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				

Sample: A-2	Temperature: 70.7°F	Barometric Reading: 30.06 inches Hg				
Title of Test		Negative Pressure			Notes	
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	9.125"	0.125"	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				



Engineer: Mr. Marlin D. Brinson P.E.
 E.L. License Number: 60749

Cert. No: TST1657
 Report Date: 4/19/2012
 Completion Date: 4/19/2012
 Expiration Date: 4/19/2022
 File Number: 12-200
 Page: 9
 Lab. Number: 6869
 Project Number: 12-3740

OFFICIAL TEST REPORT

DESCRIPTION OF SAMPLE	
Model Designation:	Series: Qompact Wind Abatement Single Wall Aluminum Slat
Overall Size:	8'-7 7/8" (103 7/8") by 7'-10" (94") high
Number and Size of Slats:	Thirty three extruded aluminum slats each 8'-2" (98") long
Track to Track:	8'-0" (96") long
Mount Type:	Inside Mount
Sample A-3	

MATERIAL CHARACTERISTICS			
Members	Material**	Part Number**	Joint Type
Left Side Rail	6063-T6	QMI-664	none
Right Side Rail	6063-T6	QMI-671	none
Starter Slat	6063-T6	QMI-669	n/a
Slat No. 1	6063-T6	QMI-630	n/a
Slat No. 2	6063-T6	QMI-631	n/a
Slat No. 3	6063-T6	QMI-632	n/a
Slat No. 4	6063-T6	QMI-633	n/a
Slat No. 5	6063-T6	QMI-634	n/a
Slat No. 6	6063-T6	QMI-635	n/a
Slat No. 7	6063-T6	QMI-636	n/a
Slat No. 8	6063-T6	QMI-637	n/a
Slat No. 9	6063-T6	QMI-638	n/a
Slat No. 10	6063-T6	QMI-639	n/a
Slat No. 11	6063-T6	QMI-640	n/a
Slat No. 12	6063-T6	QMI-641	n/a
Header Box Construction	Number of Fasteners	Size of Fasteners	
Cover box fastened with	four	8 by 1/2" PH SDS	

Weather-Stripping		
Quantity	Description	Location
Double row	pile	tracks on the interior and exterior
Single row	pile	bottom slat



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 10

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Hardware				
Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS

Additional Information

Sample was test with one 3 5/16" diameter aluminum shaft. The right side of the shaft was slide in. The left side of the shaft was fastened using two 1 1/8" long flat head pin with key with one 3 1/4" by 3 1/4" aluminum plate. The aluminum plate was fastened to the header box using three 1/4-20 by 3/4" long flat head rivets screw with keps nut.

Top slat was fastened to the shaft using a single row of No. 8 by 3/4" long truss head self drilling screw located from left of slat at 3", 13", 23 3/4", 34 3/4", 44 1/8", 54 3/4", 64 3/8", 74 3/4", 85" and 95 3/4".

Sample was tested using a snap on extruded aluminum installation cover (part No. QMI-351) at each track.

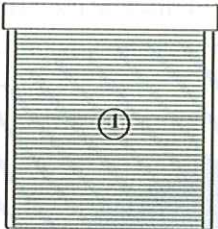
Header box was fastened at each end to the tubes using two No. 14 by 1 1/2" long hex head self drilling screws.

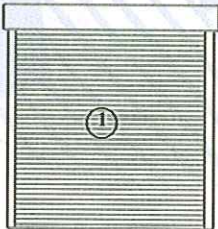


Engineer: Mr. Marlin D. Brinson P.E.
FL License Number: 60749

Cert. No: TST1657
Report Date: 4/19/2012
Completion Date: 4/19/2012
Expiration Date: 4/19/2022
File Number: 12-200
Page: 12
Lab. Number: 6869
Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: A-3		Temperature: 77.0°F		Barometric Reading: 30.12 inches Hg		
Title of Test		Positive Pressure		Notes		
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	8.625"	none	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				

Sample: A-3		Temperature: 70.7°F		Barometric Reading: 30.06 inches Hg		
Title of Test		Negative Pressure		Notes		
Cyclic Wind Load Test		160.0 psf				
						
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	8.875"	0.062"	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				



Engineer: Mr. Marlin D. Brinson P.E.

FTI License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 14

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Hardware				
Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS

Additional Information

Sample was test with one 3 5/16" diameter aluminum shaft. The right side of the shaft was slide in. The left side of the shaft was fastened using two 1 1/8" long flat head pin with key with one 3 1/4" by 3 1/4" aluminum plate. The aluminum plate was fastened to the header box using three 1/4-20 by 3/4" long flat head rivets screw with keps nut.

Top slat was fastened to the shaft using a single row of No. 8 by 3/4" long truss head self drilling screw located from left of slat at 3", 13", 23 3/4", 34 3/4", 44 1/8", 54 3/4", 64 3/8", 74 3/4", 85" and 95 3/4".

Sample was tested using a snap on extruded aluminum installation cover (part No. QMI-351) at each track.

Header box was fastened to the concrete blocks at each end using two 1/4" by 2 3/4" long hex head Tapcon fasteners.

Sample Installation

Sample was tested in a steel chamber with concrete filled blocks at each side. Blocks were filled using **Quikrete Concrete Mix (minimum **2500 psi after seven days of cure time per specification). The tracks were installed onto the concrete blocks using a single row of 3/8" by 5" long hex head Power Wedge Bolts. Location of fastener are as follow: tracks from bottom; 3", 8", 13", 18", 23", 29", 34", 39", 44", 49", 54", 59", 64", 69", 74" and 79".



Engineer: Mr. Marlin D. Brinson P.E.
 EIT License Number: 60749

Cert. No: TST1657
 Report Date: 4/19/2012
 Completion Date: 4/19/2012
 Expiration Date: 4/19/2022
 File Number: 12-200
 Page: 16
 Lab. Number: 6869
 Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: A-4		Temperature: 73.4°F		Barometric Reading: 30.21 inches Hg	
Title of Test			Pressure		Notes
Design Load Test Negative Load			160.0 psf		
Reading#	Deflection	Permanent Set	Results	Add. Info	
1	2.258"	none	Passed		
2	7.750"	none	Passed		
3	2.375"	none	Passed		
Movement		Set	Recovery	Add. Info	
5.434"		none	100%		

Sample: A-4		Temperature: 73.4°F		Barometric Reading: 30.21 inches Hg	
Title of Test			Pressure		Notes
Uniform Structural Test Positive Load			240.0 psf		
Reading#	Deflection	Permanent Set	Results	Add. Info	
1	10.125"	0.125"	Passed		



Engineer: Mr. Marlin D. Brinson P.E.

EL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 18

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

MATERIAL CHARACTERISTICS (Continued)

Members	Material**	Part Number**	Joint Type
Slat No. 7	6063-T6	QMI-636	n/a
Slat No. 8	6063-T6	QMI-637	n/a
Slat No. 9	6063-T6	QMI-638	n/a
Slat No. 10	6063-T6	QMI-639	n/a
Slat No. 11	6063-T6	QMI-640	n/a
Slat No. 12	6063-T6	QMI-641	n/a
Header Box Construction	Number of Fasteners	Size of Fasteners	
Cover box fastened with	four	8 by 1/2" PH SDS	

Weather-Stripping

Quantity	Description	Location
Double row	pile	tracks on the interior and exterior
Single row	pile	bottom slat

Hardware

Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS



Engineer: Mr. Marlin D. Brinson P.E.

FL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 19

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Additional Information

Sample was test with one 3 5/16" diameter aluminum shaft. The right side of the shaft was slide in. The left side of the shaft was fastened using two 1 1/8" long flat head pin with key with one 3 1/4" by 3 1/4" aluminum plate. The aluminum plate was fastened to the header box using three 1/4-20 by 3/4" long flat head rivets screw with keps nut.

Top slat was fastened to the shaft using a single row of No. 8 by 3/4" long truss head self drilling screw located from left at 4 3/8", 22 1/16", 42 7/16", 64 1/2", 84 3/16", 104 13/16", 121 5/8", 140 1/8", 161 3/16", 183"; and fastened using a single row of rivets located from left at 198 1/4", 220 3/8" and 235 3/4".

Sample was tested using a snap on extruded aluminum installation cover (part No. QMI-351) at each track.

Header box was fastened to the concrete blocks at each end using two 1/4" by 2 3/4" long hex head Tapcon fasteners.

Sample Installation

Sample was tested in a steel chamber with concrete filled blocks at each side. Blocks were filled using **Quikrete Concrete Mix (minimum **2500 psi after seven days of cure time per specification). The tracks were installed onto the concrete blocks using a single row of 3/8" by 5" long hex head Power Wedge Bolts. Location of fastener are as follow: tracks from bottom; 3", 8", 13", 18", 23", 29", 34", 39", 44", 49", 54", 59", 64", 69", 74" and 79".

Sample: B-1	Temperature: 75.2°F	Barometric Reading: 30.06 inches Hg
Title of Test	Pressure	Notes
1/2 Structural Load Test Positive Load	30.0 psf	
	Results	Passed



Engineer: Mr. Marlin D. Brinson P.E.

EL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 20

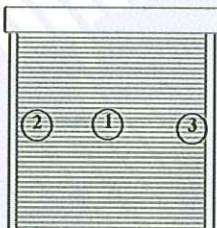
Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: B-1	Temperature: 75.8°F	Barometric Reading: 30.06 inches Hg
Title of Test	Pressure	Notes
1/2 Structural Load Test Negative Load	30.0 psf	
	Results	Passed

Sample: B-1	Temperature: 76.1°F	Barometric Reading: 30.06 inches Hg
Title of Test	Pressure	Notes
Design Load Test Positive Load	40.0 psf	



Reading#	Deflection	Permanent Set	Results	Add. Info
1	1.875"	none	Passed	
2	18.250"	none	Passed	
3	1.750"	none	Passed	
Actual Movement		Actual Set	Recovery	Add. Info
16.438		none	100%	



Engineer: Mr. Marlin D. Brinson P.E.

EL License Number: 60749

[Handwritten signature]

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 21

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: B-1		Temperature: 75.9°F		Barometric Reading: 30.06 inches Hg	
Title of Test		Pressure		Notes	
Design Load Test Negative Load		40.0 psf			
Reading#	Deflection	Permanent Set	Results	Add. Info	
1	2.750"	none	Passed		
2	19.750"	none	Passed		
3	3.125"	none	Passed		
Movement		Set	Recovery	Add. Info	
16.813"		none	100%		

Sample: B-1		Temperature: 76.1°F		Barometric Reading: 30.06 inches Hg	
Title of Test		Pressure		Notes	
Uniform Structural Test Positive Load		60.0 psf			
Reading#	Deflection	Permanent Set	Results	Add. Info	
1	23.250"	0.250"	Passed		



Engineer: Mr. Marlin D. Brinson P.E.
 FL License Number: 60749

Cert. No: TST1657
 Report Date: 4/19/2012
 Completion Date: 4/19/2012
 Expiration Date: 4/19/2022
 File Number: 12-200
 Page: 22
 Lab. Number: 6869
 Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: B-1	Temperature: 77.2°F	Barometric Reading: 30.06 inches Hg		
Title of Test		Pressure	Notes	
Uniform Structural Test Negative Load		60.0 psf		
				
Reading#	Deflection	Permanent Set	Results	Add. Info
1	24.125"	0.375"	Passed	

DESCRIPTION OF SAMPLE

Model Designation:	Series: Qompaet Wind Abatement Single Wall Aluminum Slat
Overall Size:	20'-4" (244") by 7'-10" (94") high
Number and Size of Slats:	Thirty three extruded aluminum slats each 19'-10 1/8" (238 1/8") long
Track to Track:	19'-8 1/8" (236 1/8") long
Mount Type:	Inside Mount
Sample B-2	

MATERIAL CHARACTERISTICS

Members	Material**	Part Number**	Joint Type
Left Side Rail	6063-T6	QMI-664	none
Right Side Rail	6063-T6	QMI-671	none
Starter Slat	6063-T6	QMI-669	n/a
Slat No. 1	6063-T6	QMI-630	n/a
Slat No. 2	6063-T6	QMI-631	n/a
Slat No. 3	6063-T6	QMI-632	n/a
Slat No. 4	6063-T6	QMI-633	n/a
Slat No. 5	6063-T6	QMI-634	n/a
Slat No. 6	6063-T6	QMI-635	n/a



Engineer: Mr. Marlin D. Brinson P.E.

EL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 23

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

MATERIAL CHARACTERISTICS (Continued)

Members	Material**	Part Number**	Joint Type
Slat No. 7	6063-T6	QMI-636	n/a
Slat No. 8	6063-T6	QMI-637	n/a
Slat No. 9	6063-T6	QMI-638	n/a
Slat No. 10	6063-T6	QMI-639	n/a
Slat No. 11	6063-T6	QMI-640	n/a
Slat No. 12	6063-T6	QMI-641	n/a
Header Box Construction	Number of Fasteners	Size of Fasteners	
Cover box fastened with	four	8 by 1/2" PH SDS	

Weather-Stripping

Quantity	Description	Location
Double row	pile	tracks on the interior and exterior
Single row	pile	bottom slat

Hardware

Quantity	Description	Distance	Location	Method of Attachment
Fifty four	plastic guides	n/a	one at each end of the first twenty seven slats from bottom	slide in
One	ball bearing gear	n/a	inside header box	(2) 1/4-20 by 1" FH MS with keps nut
One	metallic crank handle	n/a	right side of header box	(2) 10-24 by 3/4" PH MS



Engineer: Mr. Marlin D. Brinson P.E.

FTL License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 25

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Sample: B-2		Temperature: 72.5°F		Barometric Reading: 30.12inches Hg	
Title of Test			Notes		
Large Missile Impact Test					
Missile Weight			Missile		
9.25 pounds			2" by 4" by 96" long		
Impact	Speed	Deflection	Results	Add. Info	
1	50.1 ft/sec	6.250"	Passed		
2	50.0 ft/sec	3.500"	Passed		
3	49.6 ft/sec	3.750"	Passed		
4	49.9 ft/sec	n/a	Passed		

Sample: B-2		Temperature: 72.5°F		Barometric Reading: 30.15inches Hg		
Title of Test			Positive Pressure		Notes	
Cyclic Wind Load Test			40.0 psf			
Range	Cycle	Measured	Reading#	Deflection	Permanent Set	Results
0.0-0.5	600	3.0 sec	1	17.125"	0.250"	Passed
0.0-0.6	70	3.0 sec				
0.0-1.3	1	3.0 sec				



Engineer: Mr. Marlin D. Brinson P.E.

El. License Number: 60749

Cert. No: TST1657

Report Date: 4/19/2012

Completion Date: 4/19/2012

Expiration Date: 4/19/2022

File Number: 12-200

Page: 27

Lab. Number: 6869

Project Number: 12-3740

OFFICIAL TEST REPORT

Remarks

Representative samples of the test specimens, detailed drawings and digital video disc of testing will be retained by Fenestration Testing Laboratory for a period of five years from the original test date, and test report for a period of ten years. Due to the code cycle change of four years, it is recommended that this report be evaluated during the lifespan of this document.

This product was tested in accordance with the Florida Building Code (2010) TAS 201, 202 and 203, with no deviations. All samples tested meet Section 1620.2 (except samples B-1 and B-2) and 1626 of this Code.

Testing was conducted as per instructions received from your company representative.

Witnessed by:

Mr. Marlin D. Brinson, P.E.

FENESTRATION TESTING LABORATORY, INC.

Technician:

Mr. Harold Anacona

Mr. Jose Sanchez
President