



Architectural Testing

TEST REPORT

Report No.: E9830.01-109-44

Rendered to:

VISION INDUSTRIES GROUP, INC.
South Plainfield, New Jersey

PRODUCT TYPE: Window Opening Control Device
SERIES/MODEL: 1700 Series Aftermarket Face Mount WOCD

Test Date(s): 07/27/15

Report Date: 09/30/15

1.0 Report Issued To:

2.0 Test Laboratory:

3.0 Project Summary:

3.1 Product Type: Window Opening Control Device

3.2 Series/Model: 1700 Series After Market Face Mount WOCD

3.3 Compliance Statement: Results obtained are tested values and were secured by using the designated test method(s). Test specimen description and results are reported herein.

3.4 Test Date(s): 07/27/15

3.5 Test Record Retention End Date : All test records for this report will be retained until July 27, 2019.

3.6 Test Location: Intertek-ATI test facility in York, Pennsylvania.

3.7 Test Specimen Source: The test specimen(s) was provided by the client. Representative samples of the test specimen(s) will be retained by Intertek -ATI for a minimum of four years from the test completion date.

3.8 Drawing Reference: The test specimen drawings have been reviewed by Intertek -ATI and are representative of the test specimen(s) reported herein. Test specimen construction was verified by Intertek -ATI per the drawings located in Appendix A. Any deviations are documented herein or on the drawings.

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4.0 Test Method(s):

ASTM F 2090-10, *Test Method for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms (Sections 8.5 through 8.8).*

5.0 Test Specimen Description:

5.1 Window Description: The window opening control device was installed onto an extruded vinyl hung window.

5.2 Product Sizes:

Overall Area: 1.1 m ² (11.8 ft ²)	Width		Height	
	millimeters	inches	millimeters	inches
Overall size	908	35-3/4	1207	47-1/2

5.3 Opening Control Device Description: The After Market Window Opening Control Device was constructed of two vinyl pieces and two steel wire springs. The device had overall dimensions of 1-3/4" tall, 1" wide, and 1-3/8" deep. When assembled, the device utilized dual action to disengage the limit device. The dual action required that a spring-loaded button be pushed down and then the vinyl piece be pushed forward to disengage its vinyl keeper. The limit device utilized a wire spring which was utilized to keep the device engaged and assist in deploying the device for emergency disengagement. The device was manually disengaged. When the device was passed over by the sash, the device automatically reset to the engaged position upon returning the sash to the closed position. The device was secured to the window with two #8 x 1" long pan head screws. One device was utilized on the window jamb, located 3-3/4" above the meeting rail.

6.0 Test Results: The temperature during testing was 22°C (71°F). The results are tabulated as follows:

Title of Test	Results	Allowed	Note
Action to Disengage	Two actions per device	Two actions or one dual action	1
Window Opening Size	85.7 mm (3-3/8")	<101.6 mm (<4")	
Operating Force	9 N (2 lbf)	67 N (15 lbf) max.	
Static Load Test 334 N (75 lbf) (Load was applied for 10 seconds) (5 cycles)	No damage	No damage	
Operational Cycling 4000 cycles	No damage	No damage	2, 3
Static Load Test 334 N (75 lbf) (Load was applied for 10 seconds) (100 cycles)	No damage	No damage	
Window Opening Size	85.7 mm (3-3/8")	<101.6 mm (<4")	
Operating Force	9 N (2 lbf)	67 N (15 lbf) max.	

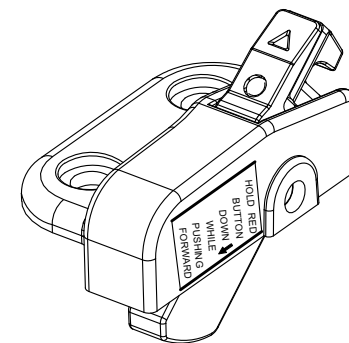
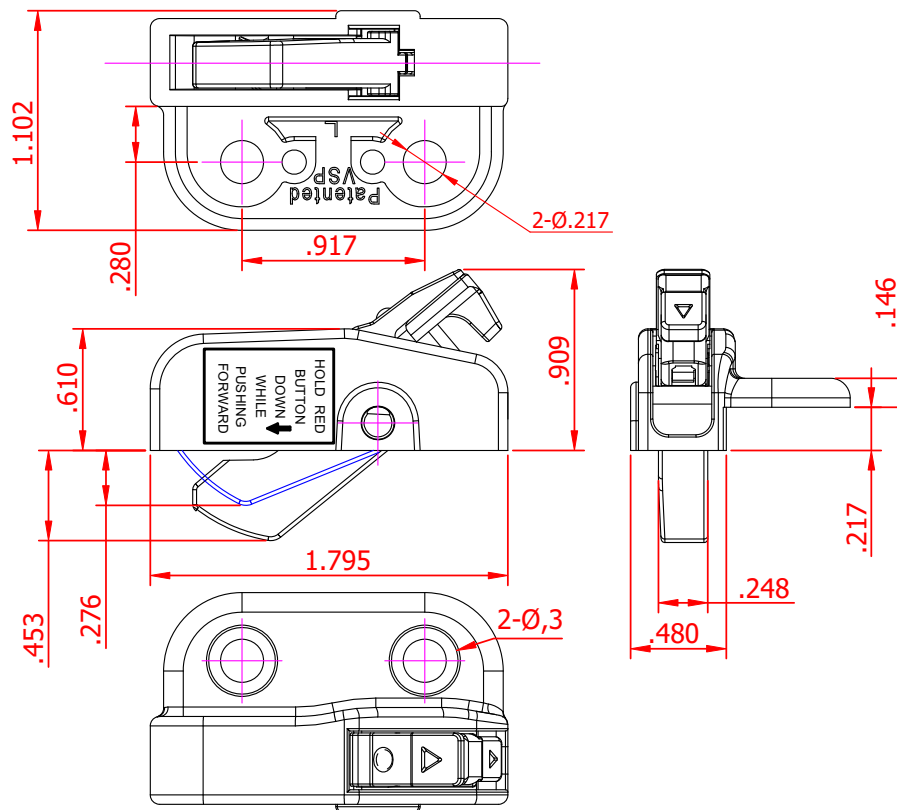
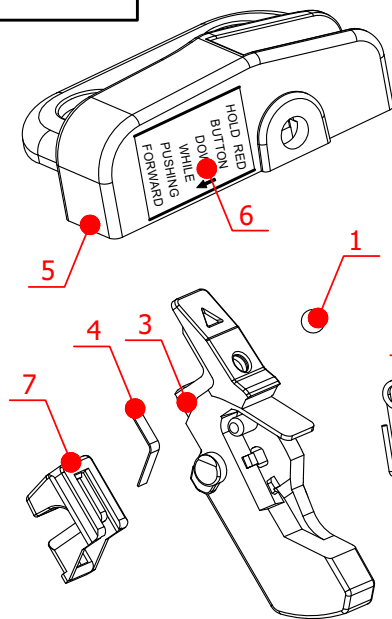
Note 1: The device required adual action to disengage. One device was present on the window to meet the two action requirement.

Note 2: The device was manually disengaged and the sash was opened past the opening control device. The sash was returned to the closed position and a visual inspection was taken ensuring the automatic re-engagement of the window opening control device.

Note 3: Minor cosmetic wear marks visible.

General Note: All testing was performed in accordance with Sections 8.5 through 8.9 of the referenced standard. The window opening control devices utilized on the test unit met all of the requirements for Window Opening Control Devices set forth in ASTM F 2090-10. At the completion of testing, the device was fully operational. The device, once released, automatically reset (Section 4.18).

1779FM-00L

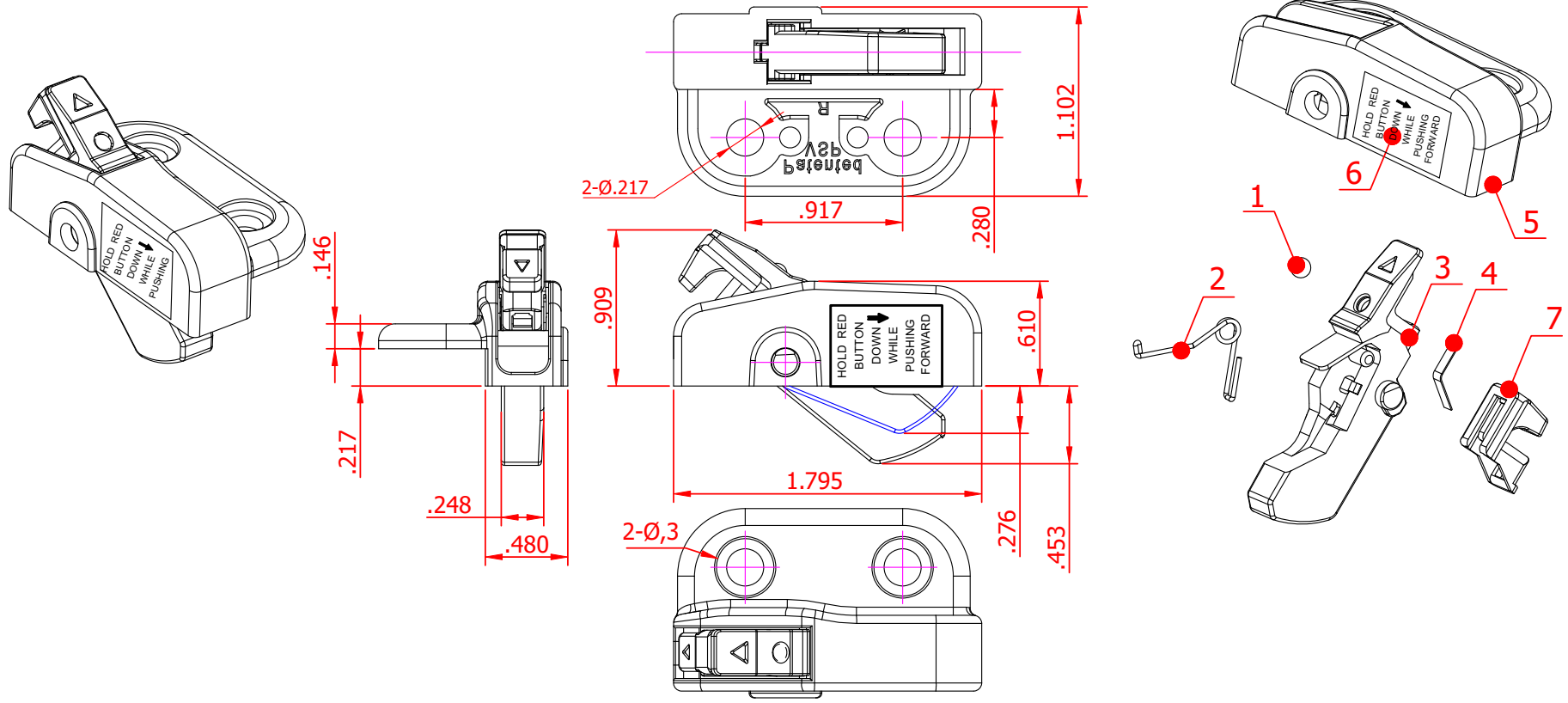


7	1779-06	button	PA6+30%GF		1
6	1779FM-05	label	3MPET		1
5	1779FM-04L	housing L	PC		1
4	1779FM-03	spring shim	sus304		1
3	1779FM-02	tongue	PC		1
2	1775FM-03	spring	SUS304		1
1	1761-03	warning dot	PVC		1
Item	Dwg No.	Part Name	Material	Finish	QTY
2.0					
REV.	MARK	CHG	DESCRIPTION	BY	DATE

	<p>1. Material</p> <p>2. Unspecified Walls:.....in.</p> <p>3. Unspecified Radii:.....in.</p> <p>4. Tolerances:</p> <p>.xx - ±06</p> <p>.xx - ±02</p> <p>.xxx - ±005</p> <p>.xxx - ±003</p> <p>Angles ±1/2°</p>
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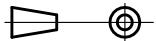
<p>TITLE: Window Open Control Device</p>		DIE NO.	
<p>PART NAME: 1779FM</p>			
<p>DESIGNER:</p>		<p>DRAWING NUMBER: 1779FM-00L</p>	
<p>DRAWN BY: Isz</p>		<p>SCALE</p>	<p>MATERIAL</p>
<p>APPROVED BY:</p>		<p>1:1</p>	<p>DATE</p>
			<p>20130918</p>

1779FM-00R



7	1779-06	button	PA6+30%GF		1
6	1779FM-05	label	3MPET		1
5	1779FM-04R	housing R	PC		1
4	1779FM-03	spring shim	sus304		1
3	1779FM-02	tongue	PC		1
2	1775FM-03	spring	SUS304		1
1	1761-03	warning dot	PVC		1
Item	Dwg No.	Part Name	Material	Finish	QTY

2.0					
REV.	MARK	CHG	DESCRIPTION	BY	DATE



- 1. Material
- 2. Unspecified Walls:.....in.
- 3. Unspecified Radii:.....in.
- 4. Tolerances:
 - .xx - ±06
 - .xx - ±02
 - .xxx - ±005
 - .xxx - ±003
 - Angles ±1/2°

TITLE: Window Open Control Device		DIE NO.	
		PART NAME: 1779FM	
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