

VISIONAR WINDOW SYSTEMS INC. TEST REPORT

SCOPE OF WORK

ASTM F2090 TESTING V450 SERIES CASEMENT WINDOW OPENING CONTROL DEVICE

REPORT NUMBER

T8403.01-901-44 R0

TEST DATES

05/06/26

ISSUE DATE

05/21/26

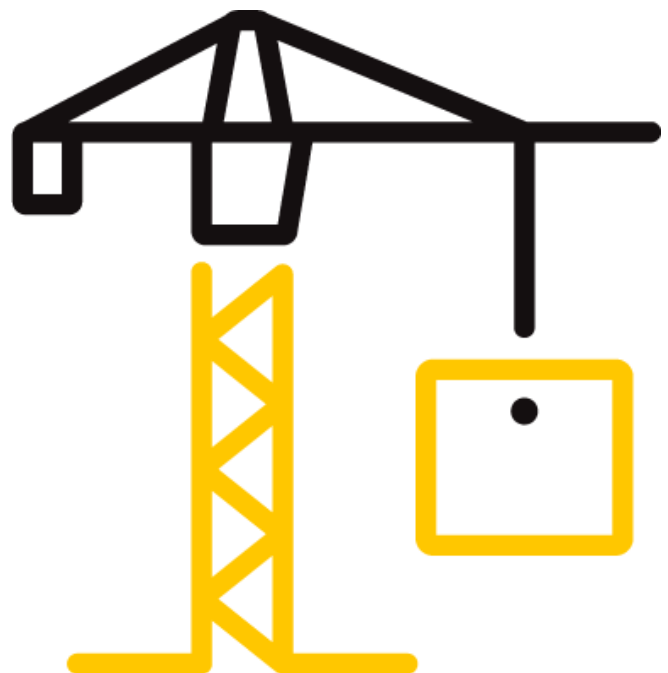
PAGES

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DOCUMENT CONTROL NUMBER

RT-R-AMER-Test-2805 (10/12/23)

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TEST REPORT FOR VISIONAR WINDOW SYSTEMS INC.

Report No.: T8403.01-901-44 R0

Date: 05/21/26

REPORT ISSUED TO

VISIONAR WINDOW SYSTEMS INC.

5430 275th Street

Langley, BC V4W 3X7

Canada

SECTION 1

SCOPE

Architectural Testing, Inc. (an Intertek company) dba Intertek Building & Construction (B&C) was contracted by Visionar Window Systems Inc., to perform testing in accordance with ASTM F2090, on their Casement Window with Window Opening Control Device. Results obtained are tested values and were secured by using the designated test methods. Testing was conducted at Intertek B&C test facility in Kent, Washington.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends ten years after the test date. Test records, such as detailed drawings, datasheets, representative samples of test specimens, or other pertinent project documentation, will be retained for the entire test record retention period.

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For INTERTEK B&C:

COMPLETED BY:	Rachel Pankaskie	REVIEWED BY:	Arbind Raj, FMPC
TITLE:	Project Coordinator	TITLE:	Technical Lead
SIGNATURE:		SIGNATURE:	
DATE:	05/21/26	DATE:	05/21/26

AR:rp

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SECTION 2

TEST METHODS

The specimens were evaluated in accordance with the following:

ASTM F2090-21, *Standard Specification for Window Fall Prevention Devices with Emergency Escape (Egress) Release Mechanisms (Sections 10.1 through 10.5 to satisfy Section 9)*

SECTION 3

MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of two years from the test completion date.

The specimen was installed into a Casement Window. Installation of the tested product was performed by the client.

LOCATION	ANCHOR DESCRIPTION	ANCHOR LOCATION
Stiles	#10 x 3/4" Pan Head Square Drive Screw	The window opening control device was installed on the lower corner (approx., 15-1/5" of bottom rail) of the sash with two #10 x 3/4" Pan Head Square screws
Jamb	#10 x 3/4" Pan Head Square Drive Screw	The WOCD latch assembly was attached 2-3/4" off the sill on the frame (jamb) bottom corner with two #10 x 3/4" Pan Head Square screws

Note: See drawing details for screw placements.

SECTION 4

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Arbind Raj	Intertek B&C
Brent Friesen	Visionar Window System Inc

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SECTION 5

TEST SPECIMEN DESCRIPTION

Product Type: Casement Window Opening Control Device

Series/Model: Window Opening Control Device

Product Size:

OVERALL AREA:	WIDTH		HEIGHT	
	millimeters	inches	millimeters	inches
8.2 m ² (8.2 ft ²)				
Overall Size	848	33-3/8	899	35-3/8
Exterior Sash	806	31-3/4	857	33-3/4

Opening Control Device Description: The window opening control device was constructed of stainless steel. The device had an overall dimension of 12-3/4" length by 1/2" wide and 1/16" thick. The device utilizes a mechanical slide system to release open the window with a single latch release system. When the sash is closed, the device automatically resets into the engaged position. A dual-action device was utilized on the window.

SECTION 6

TEST RESULTS

The temperature during testing was 21°C (70°F). The results are tabulated as follows:

TITLE OF TEST	RESULTS	ALLOWED	NOTE
Actions to Disengage	One Dual Action	Two single action devices or one dual action device	1
Window Opening Size	89 mm (3-5/8")	<102 mm (<4")	
Initial Operating Force to Release WOCD, per ASTM F2090	13 N (3 lbf)	66 N (15 lbf) max	
Load Testing, 333 N (75 lbf) 5 cycles	No Damage	No Damage	2, 3
Operational Cycling, 4000 Cycles	No Damage	No Damage	4, 5
Load Testing, 333 N (75 lbf) 100 cycles	No Damage	No Damage	2, 3
Window Opening Size	89 mm (3-5/8")	<102 mm (<4")	
Final Operating Force to Release WOCD, per ASTM F2090	13 N (3 lbf)	66 N (15 lbf) max	

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Note 1: The device automatically re-engaged after opening and closing the window.

Note 2: The load testing was performed on one device.

Note 3: Loads were held for 10 seconds.

Note 4: Observations: No cosmetic wear marks.

Note 5: 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 made ensuring automatic re-engagement of the window open control device.

General Note: All testing was performed in accordance with Sections 9.2, 9.3.2, and 10.1 through 10.5 of the referenced standard. The window opening control device utilized on the test unit met all requirements for Window Opening Control Device set forth in ASTM F 2090. At the completion of testing, the device was fully operational. The device, once released, automatically reset (Section 9)

The device meets **F2090** revisions 2021, 2017, 2013, 2010, 2008.

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SECTION 7

PHOTOGRAPHS



Photo No. 1
4" Sphere did not pass through



Photo No. 2
WOCD engaged secured to Jamb

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Photo No. 3
Static Load per ASTM F2090.



Photo No. 4
WOCD attached to Sash.

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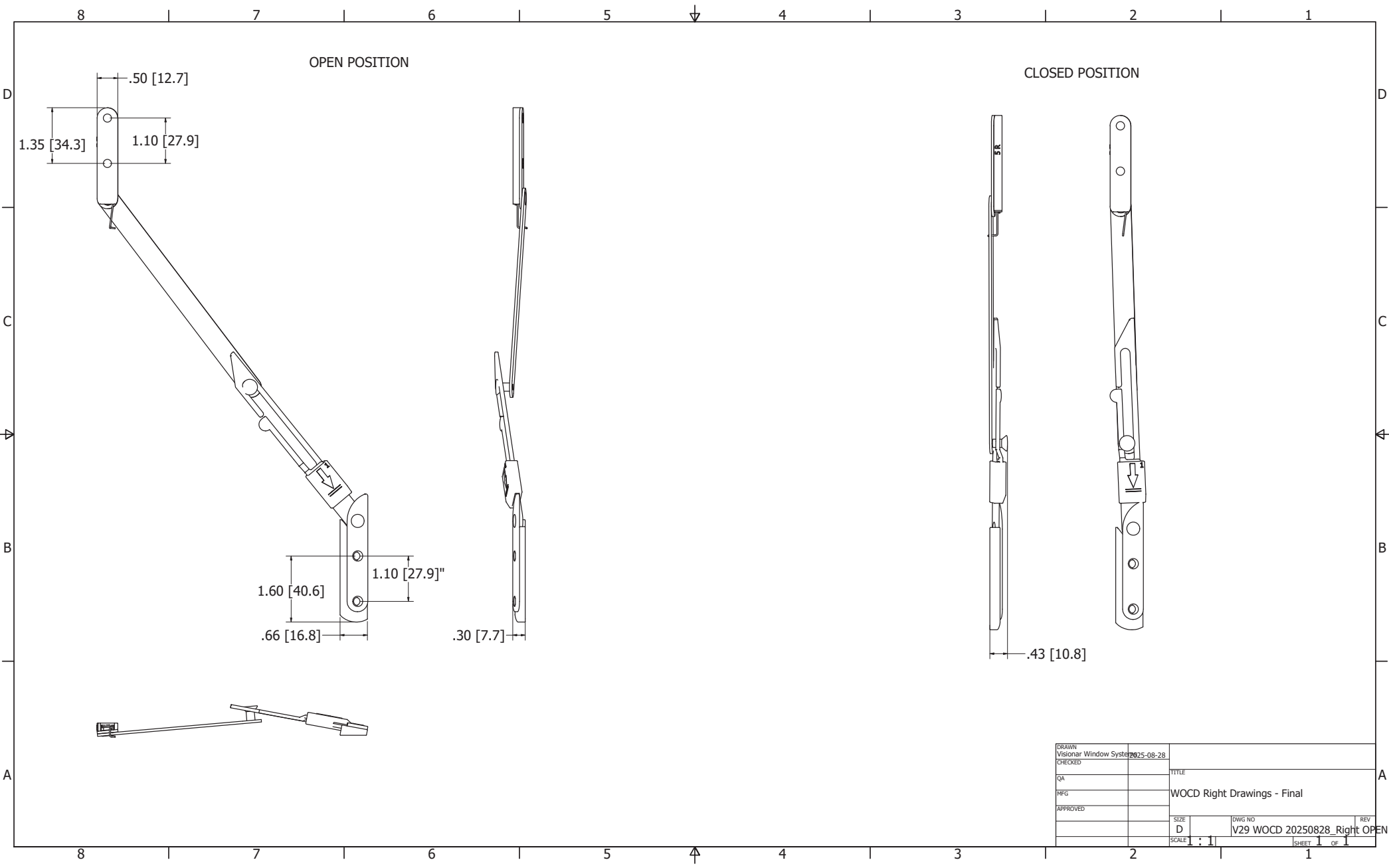
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SECTION 8

DRAWINGS

The test specimen drawings have been reviewed by Intertek B&C and are representative of the test specimen reported herein. Test specimen construction was verified by Intertek B&C per the drawings included in this report. Any deviations are documented herein or on the drawings.



DRAWN Visionar Window Systems2025-08-28			
CHECKED		TITLE	
QA		WOCD Right Drawings - Final	
MFG			
APPROVED			
		SIZE D	DWG NO V29 WOCD 20250828_Right OPEN
		SCALE : 1	REV SHEET 1 OF 1



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SECTION 9

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	05/21/26	N/A	Original Report Issue