

EXCELL RAILING SYSTEMS LTD. TEST REPORT

SCOPE OF WORK

REPORT OF 1.72 IN. SURFACE MOUNTED GLASS ASSEMBLY – 5 FT. RAILING SYSTEM TESTED IN ACCORDANCE WITH SELECTED SECTIONS OF ASTM E2353-21, *STANDARD TEST METHODS FOR PERFORMANCE OF GLAZING IN PERMANENT RAILING SYSTEMS, GUARDS, AND BALUSTRADES*

REPORT NUMBER

106144599COQ-002A

TEST DATES

05/07/25

ISSUE DATE

06/20/25

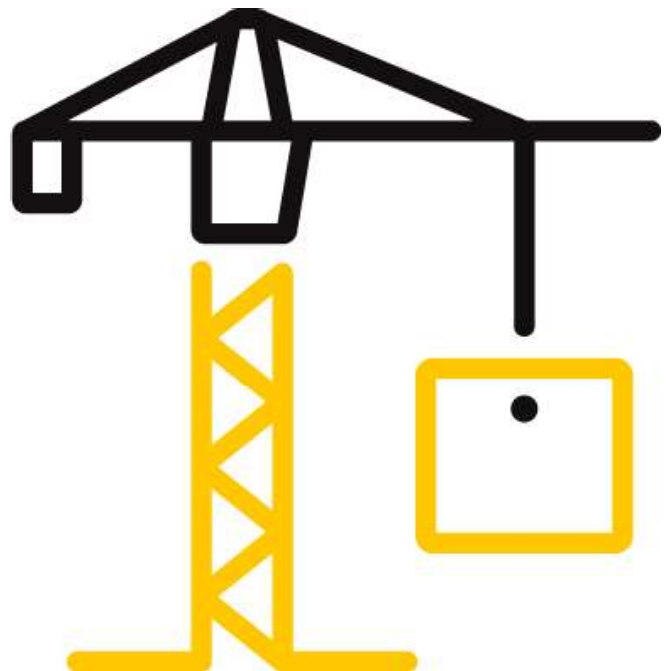
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TEST REPORT FOR EXCELL RAILING SYSTEMS LTD.

Report No.: 106144599COQ-002A

Date: 06/20/25

REPORT ISSUED TO

EXCELL RAILING SYSTEMS LTD.

#306 – 12886 Anvil Way
Surrey, BC, V3W 8E7
Canada

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Excell Railing Systems Ltd., #306 – 12886 Anvil Way, Surrey, BC, V3W 8E7, Canada, to perform testing on the 1.72 in. Surface Mounted Glass Assembly – 5 ft. Railing System in accordance with selected sections of ASTM E2353-21, *Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades*. The scope of the testing as requested by Excell Railing Systems Ltd., was to assess the ability of the guard system to resist the load requirements of Section 1607.9 of the 2024 IBC and R301.5 of the 2024 IRC. Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek test facility in Coquitlam, BC, Canada on May 7, 2025.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

For INTERTEK B&C:

COMPLETED	
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TITLE:	Sr. Tech – Building & Construction
SIGNATURE:	
	EGBC Permit No.: 1000953
DATE:	06/20/25

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DATE:	06/20/25

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SECTION 2

SUMMARY OF TEST RESULTS

SYSTEM DESCRIPTION	TEST	PASS/FAIL
1.72 in. Surface Mounted Glass Assembly – 5 ft. Railing System	In-fill Load	Pass
	Uniform Load	Pass
	Horizontal – Mid-Span Concentrated Load	Pass
	Horizontal – Adjacent to Post Concentrated Load	Pass
	Horizontal – Top of Post Concentrated Load	Pass

Refer to Appendix B for photos of testing.

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SECTION 3

TEST METHOD

The guard specimen was evaluated in accordance with the following:

ASTM E2353-21, *Standard Test Methods for Performance of Glazing in Permanent Railing Systems, Guards, and Balustrades*, Section 12.1.1 *Static Load Testing*

The required test loads were based on the Specified Loads per the following Building Code articles with the Safety Factors applied as indicated in this report.

2024 International Building Code (IBC)

- Section 1607.9.1 *Loads on Handrails, Guards, Grab Bars and Seats*

2024 International Residential Code (IRC)

- R301.5 *Live Load*

Per the client's request, the *Shot Bag Impact Test* per Section 12.2 and the *Pendulum Impact Test* per Section 12.3 were not conducted per ASTM E2353.

SECTION 4

MATERIAL SOURCE

The client submitted the railing system to the Evaluation Center on April 9, 2025 (Coquitlam ID# VAN2504091520-001). The sample was received in good condition and was suitable for testing unless noted otherwise. The sample was not independently selected for testing.