

Issued: 10/30/2025

Letter Report No: 106270124TOR-001

Richard Bergman
Titan Building Products
Unit 14, 5390 Canotek Road
Ottawa, ON K1J 1H8
Canada

Subject: Result regarding the size of opening between two adjacent vertical elements.

Dear Richard,

Intertek Testing Services NA, Ltd. dba Intertek Building & Construction (B&C) was contracted by Titan Building Products, to conduct testing on their aluminium picket. Tests were conducted in accordance with the following:

- **2020 National Building Code of Canada, (NBC) and 2024 Ontario Building Code (OBC)- Section 4.1.5.14**
– *“Loads on Guards and Handrails”, Sentence 4.*

Testing was conducted at the Intertek Facility located at 6225 Kenway Drive, Mississauga, Ontario.

If you have any questions regarding this letter report, please do not hesitate to contact the undersigned.

Sincerely,

INTERTEK TESTING SERVICES NA, INC.

Reported by:



Abdul Shahnawaz
Laboratory Technician
Building & Construction

Reviewed by:



Tyrone Williams, P. Eng.
Lab Supervisor.
Building & Construction



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Test Specimen Description

The test specimen consisted of two pickets installed within a 2 × 4 wood frame measuring 16 in. × 38.5 in. Each picket measured 31 in. in length, with an outside diameter of 0.7465 in. and a wall thickness of 0.0485 in., fabricated from aluminium. The pickets were secured to the frame using plastic brackets, installed at 3.75 in. on-centre spacing.

Test Results

Specimen	Specified Load N	Opening Before Load (mm)	Opening at Specified load (mm)	Opening Limit	Results
1	100	75.56	86.18	< 100 mm	Pass
2		75.33	86.35		Pass
3		77.71	87.91		Pass

The Titan building pickets has met the requirements of Section 4.1.5.14 – “Loads on Guards and Handrails”, **Sentence (4)** of the 2020 National Building Code of Canada, (NBC) and 2024 Ontario Building Code (OBC)

