

CENDEK RAILINGS LTD.

TEST REPORT

SCOPE OF WORK

REPORT OF 5 FT. PRIVACY WALL – CENTURY FASCIA MOUNT TESTED IN ACCORDANCE WITH ASTM E935-21, *STANDARD TEST METHODS FOR PERFORMANCE OF PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS*

REPORT NUMBER

105626012COQ-005A

TEST DATE

06/06/24

ISSUE DATE

06/11/24

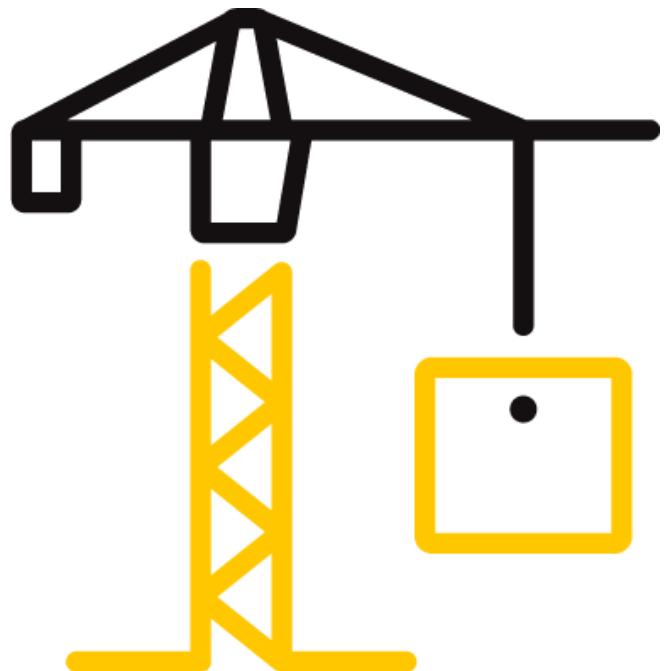
PAGES

24

DOCUMENT CONTROL NUMBER

GFT-OP-10c (09/29/20)

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TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 105626012COQ-005A

Date: 06/11/24

REPORT ISSUED TO CENDEK RAILINGS LTD.


9685 Agur St.
Summerland, BC, V0H 1Z2
Canada

SECTION 1 SCOPE

Intertek Building & Construction (B&C) was contracted by Cendek Railings Ltd., 9685 Agur St., Summerland, BC, V0H 1Z2, Canada, to perform testing on their Privacy Wall product in accordance with ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*. The scope of the testing as requested by Cendek Railings Ltd., was to assess the ability of the guard system to resist the load requirements of Section 4.1.5.14 and Section 9.8.8.2 of the 2020 NBC, 2024 OBC, 2024 BCBC, and 2023 NBC-AE. Results obtained are tested values. Testing was conducted at the Intertek test facility in Coquitlam, BC, Canada in June 2024.

Unless differently required, Intertek reports apply the "Simple Acceptance" rule also called "Shared Risk approach," of ILAC-G8:09/2019, Guidelines on Decision Rules and Statements of Conformity.

For INTERTEK B&C:

COMPLETED			
BY:	Chris Chang, P.Eng.	REVIEWED BY:	Baldeep Sandhu
TITLE:	Sr. Tech – Building & Construction	TITLE:	Manager – Building & Construction
SIGNATURE:		SIGNATURE:	
DATE:	06/11/24	DATE:	06/11/24

EGBC Permit No.: 1000953

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Engineer's Disclaimer:

- Intertek Engineers do not assume professional responsibility of Engineer of Record.
- Compliance to Building Codes must be approved by the Engineer of Record or Authority Having Jurisdiction.
- Intertek Engineer's seal and signature is limited to the review of applicable code required loads, review of test setup, and witnessing of laboratory testing.
- Additional disclaimers are shown in Notes of Section 7 and Section 8

Engineers Approval Stamp



Kal Kooner, P.Eng.

EGBC Permit No.: 1000953

Director, Building & Construction
Intertek



Dan Lungu, P.Eng.

EGBC Permit No.: 1000953

Engineer, Building & Construction
Intertek

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SECTION 2

SUMMARY OF TEST RESULTS

SYSTEM DESCRIPTION	TEST	PASS/FAIL
Privacy Wall – Century Fascia Mount (5 ft. o/c span)	In-fill Load	Pass
	Vertical Uniform Load Test	Pass
	Outward-Horizontal Uniform Load Test	Pass
	Outward-Horizontal – Mid-Span Concentrated Load	Pass
	Outward-Horizontal – Adjacent to Post Concentrated Load	Pass
	Outward-Horizontal – Top of Post Concentrated Load	Pass
	Inward-Horizontal Uniform Load Test	Pass
	Inward-Horizontal – Mid-Span Concentrated Load	Pass
	Inward-Horizontal – Adjacent to Post Concentrated Load	Pass
	Inward-Horizontal – Top of Post Concentrated Load	Pass
	Size of Opening	N/A

Refer to Appendix B for photos of testing.

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SECTION 3**TEST LOADS**

The guard specimen was evaluated in accordance with the following:

ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*

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:

2020 National Building Code of Canada (NBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code (OBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code (BCBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2023 National Building Code – Alberta Edition (NBC-AE)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

SECTION 4**MATERIAL SOURCE**

The client submitted the guard system to the Evaluation Center on April 8, 2024 (Coquitlam ID# VAN2404081327-001). The sample was received in good condition and was suitable for testing unless noted otherwise. The sample was not independently selected for testing.

SECTION 5**EQUIPMENT**

Calibration of test equipment was performed by Intertek B&C in accordance with ISO 17025 requirements.

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ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
P60692	Artech 5k lb S-Type Load Cell	20210-5k	01/15/25
P60610	T&D Temperature and Humidity Indicator	TR-72Ui	08/30/24
P60624	Extech Stopwatch	365515	12/15/24
52650	Mitutoyo 8 in. Digital Caliper	CD-8	06/22/24
P60494	Stanley Tape Measure	FatMax	10/19/24
D7810	Micro Mule	Intertek-York	10/03/24
D7820	Tyco Electronics Linear Transducer	PT1MA-20-UP-420E-M6	09/14/24

SECTION 6

LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Frank Gadea-Lopez	Intertek B&C
Chris Chang	Intertek B&C
Kal Kooner	Intertek B&C
Dan Lungu	Intertek B&C

The above observer(s) witnessed part of the test program.

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SECTION 7
TESTING PROCEDURE

The evaluation was conducted in accordance with the testing procedures of ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*. The test specimen was loaded at a rate to achieve the specified loads between 10 seconds and 5 minutes. The specified test loads were held for one minute before the load was released. For each test, deflection measurements were taken at the point of load application. Testing was conducted with reference to the specified load requirements of the following:

2020 NBC / 2024 OBC / 2024 BCBC / 2023 NBC-AE:
SECTION 4.1.5.14 LOADS ON GUARDS AND HANDRAILS

- 1) The minimum specified horizontal load applied inward or outward at the minimum required height of every guard shall be 0.75 kN/m or a concentrated load of 1.0 kN applied at any point.
- 2) The minimum specified horizontal load applied inward at the minimum required height of every required guard shall be half that specified in Sentence (1).
- 3) Individual elements within the *guard*, including solid panels and pickets, shall be designed for a concentrated load of 0.5 kN applied over an area of 100 mm x 100 mm located at any point in the element or elements so as to produce the most critical effect.
- 4) The size of the opening between any two adjacent vertical elements within a *guard* shall not exceed 100 mm when each of these elements is subjected to a specified *live load* of 0.1 kN applied in opposite directions in the in-plane direction of the *guard* so as to produce the most critical effect.
- 5) The minimum specified load applied vertically at the top of every required *guard* shall be 1.5 kN/m.
- 6) None of the loads specified above need be considered to act simultaneously.

2020 NBC / 2024 OBC / 2024 BCBC / 2023 NBC-AE:
SECTION 9.8.8.2 LOADS ON GUARDS

- 1) The minimum specified horizontal load applied inward or outward at the top of every required guard shall be 0.5 kN/m or a concentrated load of 1.0 kN applied at any point
- 2) Individual elements within the *guard*, including solid panels and pickets, shall be designed for a

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concentrated load of 0.5 kN applied over an area of 300 mm x 300 mm located at any point in the element or elements so as to engage 3 balusters when possible.

- 3) The minimum specified load applied vertically at the top of every required *guard* shall be 1.5 kN/m.
- 4) The size of the opening between any two adjacent vertical elements within a *guard* shall not exceed 100 mm when each of these elements is subjected to a specified *live load* of 0.1 kN applied in opposite directions in the in-plane direction of the *guard* so as to produce the most critical effect.
- 5) None of the loads specified above need be considered to act simultaneously.

Note 1: A safety factor of 1.67-2.24 was applied to the above loads, based on an assumed failure mode and tested material. The safety factor was calculated by dividing the live load factor of 1.5 by the material resistance factors below, as defined in the CAN/CSA S157, *Strength Design in Aluminum* standard.

- $\phi=0.90$ resistance factor for bending failure mode, resulting safety factor = 1.67
- $\phi=0.75$ resistance factor for ductile failure mode, resulting safety factor = 2.0
- $\phi=0.67$ resistance factor for brittle failure mode, resulting safety factor = 2.24

IN-FILL LOAD TEST

A test load was applied using a 100 mm x 100 mm square block on the center of an individual Privacy Board normal to the in-fill. After release of the load, the system was evaluated for failure, any evidence of disengagements of any component and visible cracks in any component.

UNIFORM LOAD TEST

Uniform test loads were applied vertically to the top of the Privacy Wall system and horizontally on an individual Privacy Board at 42 in. height. The test loads were applied using quarter point loads. After release of the load, the system was evaluated for failure, any evidence of disengagements of any component and visible cracks in any component.

For the fascia mounted Privacy Wall, the uniform load test was also conducted in the inward direction.

CONCENTRATED LOAD TEST

Concentrated test loads were applied on an individual Privacy Board at 42 in. height at the following locations:

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- horizontally at the midspan of the Privacy Board,
- horizontally at the Privacy Board adjacent to the post connection to verify connection capacity, and
- horizontally on the post at 42 in. height.

After completion of the above load tests, the concentrated load on the post at 42 in. height was loaded until failure.

Testing was conducted in both the outward and inward direction.

SIZE OF OPENING

Size of opening was not evaluated as there were no openings between adjacent vertical elements.

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SECTION 8

TEST SPECIMEN DESCRIPTION

The sample was identified as the following:

TABLE 1. RAILING CONFIGURATION							
PART NAME	PART NUMBER	QTY	PART DIMENSIONS				REPORTED MATERIAL
			LENGTH	WIDTH	HEIGHT	NOMINAL THICKNESS	
5 FT. PRIVACY WALL – FASCIA MOUNT							
Post	N/A	2	2.53 in.	2.53 in.	71.6 in.	0.09 in.	Aluminum
Century Fascia Bracket	D000610	2	4.75 in.	4.38 in.	3.88 in.	0.31 in.	Aluminum
Infill – Privacy Board	N/A	12	5.38 in.	58.5 in.	0.63 in.	0.08 in.	Aluminum

Note 1: For detailed drawings of the test samples and components, refer to Appendix C.

Note 2: The supporting structure attachment was outside the scope of this evaluation, and is subject to evaluation and approval by the Engineer of Record and the Authority Having Jurisdiction (AHJ). The assemblies were attached to a rigid test support using steel plates with four (4) 3/8 in. Grade 5 bolts on each post.

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SECTION 9**TEST RESULTS**

A full set of test results is included in Appendix A.

SECTION 10**CONCLUSION**

Intertek Testing Services NA Ltd. (Intertek) has conducted testing for Cendek Railings Ltd. on the Privacy Wall products per ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*. The scope of the testing as requested by Cendek Railings Ltd., was to assess the ability of the guard system to resist the loads as prescribed in the following building code articles:

2020 National Building Code of Canada (NBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code (OBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code (BCBC)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

2023 National Building Code – Alberta Edition (NBC-AE)

- Section 4.1.5.14 *Loads on Guards and Handrails*
- Section 9.8.8.2 *Loads on Guards*

The Cendek Railings Ltd. Privacy Wall product identified and evaluated in this report has met the load requirements using the safety factors as defined in Section 7, Note 1 of this report. Overall compliance with the Building Codes must be evaluated and approved by the Engineer of Record and Authority Having Jurisdiction.

The conclusions of this test may not be used as part of the requirements for Intertek product certification. Authority to Mark must be issued for a product to become certified.

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SECTION 11

APPENDIX A – TEST DATA (3 PAGES)

Company	Cendek Railings Ltd.	Technician(s)	Frank Gadea-Lopez / Chris Chang
Project No.	G105626012	Reviewer	Baldeep Sandhu
Models	5 ft. o/c span	Start/End Date	June 6, 2024
Product Name	Privacy Wall	Sample ID	VAN2404081327-001
Standard	2020 NBC / 2024 OBC / 2024 BCBC / 2023 NBC-AE, Section 4.1.5.14/9.8.8.2		

Test Data Package

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5 ft Privacy Wall - Century Fascia Mount (Outward)	2
5 ft Privacy Wall - Century Fascia Mount (Inward)	3

Test: **Loads on Guards - Section 4.1.5.14 (Outward)** Project: G105626012
Date: 6-Jun-24 Eng/Tech: Frank Gadea-Lopez / Chris Chang
Client: Cendek Railings Ltd. Reviewer: Baldeep Sandhu
Product: **5 ft. Privacy Wall - Century Fascia Mount** Location: Coquitlam, BC, Canada
Post Spacing: 5.00 ft 1.52 m
Height of Guard: 79.4 in 2016 mm
Opening in Guard: 0.38 in 10 mm (between panels)
2.13 in 54 mm (under bottom panel)
Method: ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*
2020 National Building Code of Canada, Section 4.1.5.14 *Loads on Guards and Handrails*
2024 Ontario Building Code, Section 4.1.5.14 *Loads on Guards*
2024 British Columbia Building Code, Section 4.1.5.14 *Loads on Guards and Handrails*
2023 National Building Code - Alberta Edition, Section 4.1.5.14 *Loads on Guards and Handrails*
Safety Factor: 1.67 (based on a resistance factor $\phi = 0.9$ for aluminum)
2.24 (based on a resistance factor $\phi = 0.67$ for connection)
Equipment: Artech 5000 lbf Load Cell (Intertek ID# P60692, cal due January 15, 2025)
T&D TR-72Ui Temperature and Humidity Logger (Intertek ID# P60610, cal due August 30, 2024)
Stopwatch (Intertek ID# P60624, cal due December 15, 2024)
Stanley Tape Measure (Intertek ID# P60494, cal due October 19, 2024)
Mitutoyo Digital Caliper (Intertek ID# 52650, cal due June 22, 2024)
Micro Mule Measurement System (Intertek ID# D7810, cal due October 3, 2024)
Tyco Electronics Linear Transducer (Intertek ID# D7820, cal due September 14, 2024)
Time/Temp/RH: 12:30PM / 22.8°C / 48.0%

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Outward	Individual Elements (over 4 in. x 4 in.)	112	187	187	2.894	Pass
	Horizontal Uniform Load (per ft)	51	86	428	3.304	Pass
	Midspan Horizontal Concentrated Load	225	375	375	4.699	Pass
	Adjacent to Post Concentrated Load	225	503	503	5.289	Pass
	Top of Post Horizontal Concentrated Load	225	375	375	3.959	Pass
	Top of Post Horizontal Concentrated Load Ultimate Load	703.4 lbf - baseplate above fascia mount bracket deformed				

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Outward	Individual Elements (over 100 mm in. x 100 mm)	0.5	0.83	0.83	73.5	Pass
	Horizontal Uniform Load (per m)	0.75	1.25	1.90	83.9	Pass
	Midspan Horizontal Concentrated Load	1	1.67	1.67	119.4	Pass
	Adjacent to Post Concentrated Load	1	2.24	2.24	134.3	Pass
	Top of Post Horizontal Concentrated Load	1	1.67	1.67	100.6	Pass
	Top of Post Horizontal Concentrated Load Ultimate Load	3.1 kN - baseplate above fascia mount bracket deformed				

Test: **Loads on Guards - Section 4.1.5.14 (Inward)** Project: G105626012
Date: 6-Jun-24 Eng/Tech: Frank Gadea-Lopez / Chris Chang
Client: Cendek Railings Ltd. Reviewer: Baldeep Sandhu
Product: **5 ft. Privacy Wall - Century Fascia Mount** Location: Coquitlam, BC, Canada
Post Spacing: 5.00 ft 1.52 m
Height of Guard: 79.4 in 2016 mm
Opening in Guard: 0.38 in 10 mm (between panels)
2.13 in 54 mm (under bottom panel)
Method: ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*
2020 National Building Code of Canada, Section 4.1.5.14 *Loads on Guards and Handrails*
2024 Ontario Building Code, Section 4.1.5.14 *Loads on Guards*
2024 British Columbia Building Code, Section 4.1.5.14 *Loads on Guards and Handrails*
2023 National Building Code - Alberta Edition, Section 4.1.5.14 *Loads on Guards and Handrails*
Safety Factor: 1.67 (based on a resistance factor $\phi = 0.9$ for aluminum)
2.24 (based on a resistance factor $\phi = 0.67$ for connection)
Equipment: Artech 5000 lbf Load Cell (Intertek ID# P60692, cal due January 15, 2025)
T&D TR-72Ui Temperature and Humidity Logger (Intertek ID# P60610, cal due August 30, 2024)
Stopwatch (Intertek ID# P60624, cal due December 15, 2024)
Stanley Tape Measure (Intertek ID# P60494, cal due October 19, 2024)
Mitutoyo Digital Caliper (Intertek ID# 52650, cal due June 22, 2024)
Micro Mule Measurement System (Intertek ID# D7810, cal due October 3, 2024)
Tyco Electronics Linear Transducer (Intertek ID# D7820, cal due September 14, 2024)
Time/Temp/RH: 12:30PM / 22.8°C / 48.0%

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Inward	Horizontal Uniform Load (per ft)	26	43	217	1.740	Pass
	Vertical Uniform Load (per ft)	103	171	856	0.878	Pass
	Midspan Horizontal Concentrated Load	112	187	187	2.257	Pass
	Adjacent to Post Concentrated Load	112	251	251	2.650	Pass
	Top of Post Horizontal Concentrated Load	112	187	187	2.012	Pass

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Inward	Horizontal Uniform Load (per m)	0.375	0.62	0.95	44.2	Pass
	Vertical Uniform Load (per m)	1.5	2.50	3.81	22.3	Pass
	Midspan Horizontal Concentrated Load	0.5	0.83	0.83	57.3	Pass
	Adjacent to Post Concentrated Load	0.5	1.12	1.12	67.3	Pass
	Top of Post Horizontal Concentrated Load	0.5	0.83	0.83	51.1	Pass

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APPENDIX B – PHOTOS (2 PAGES)

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Figure 1. In-fill Load Test



Figure 2. Horizontal Uniform Load

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Figure 3. Adjacent to Post Concentrated Load



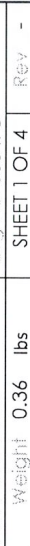
Figure 4. Post Concentrated Load

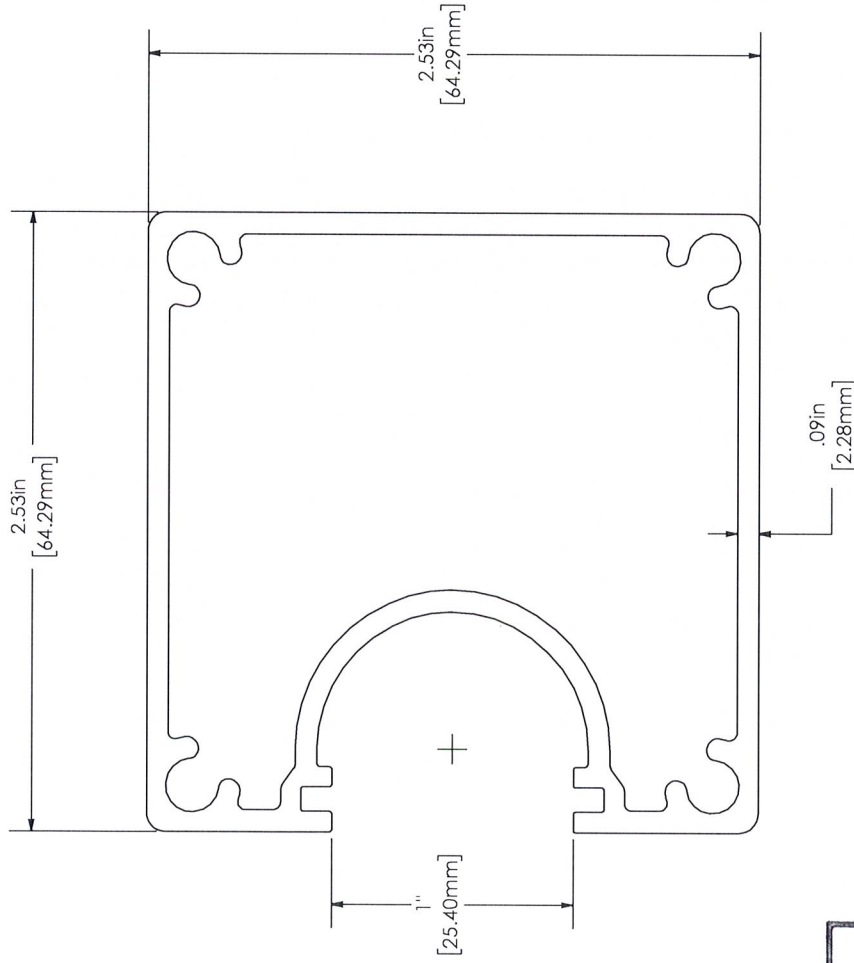
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APPENDIX C – DRAWINGS (4 PAGES)





intertek

Test sample complies with these details.
Deviations are noted.

Report #: 105626012-COR-005A

Date: 06/11/21 Tech: C.C.

CenDek
Railings Ltd.

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CREATED 9/19/2017
MATERIAL 6063-T5
DIE NO.

ALL DIMENSION IN INCHES/mm

DESCRIPTION

2-1/2" Scenic End Post Drawing

Part No. NA

Weight 1.29 Lbs

Eng No. 0069PJ

Rev -

REVISIONS

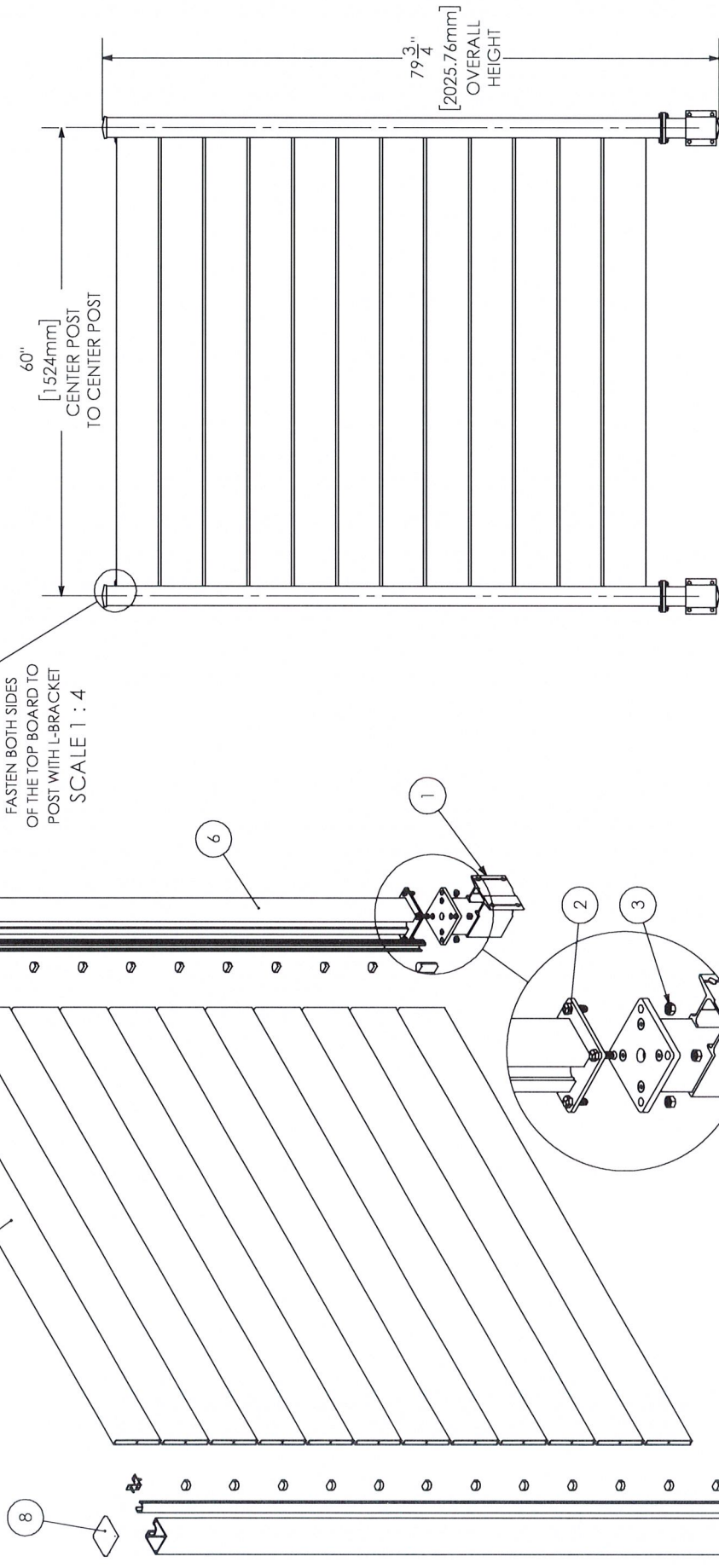
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intertek

Test sample complies with these details.
Deviations are noted.

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Date: 06/11/24 Tech: CSC



ITEM NO.	Eng No.	Part No.	DESCRIPTION	QTY.
1	0217A	D000610	Fascia Bracket 2-1/2" Line/End/Stair with baseplate	2
2	2077P	D000430	Bolt Hex 5/16" x 1" NC Stainless	8
3	2557P	D000429	Nut Hex 5/16" N/loc NC Stainless	8
4	2677PB	D020332	5/8" X 5-3/8" X 58-5/8" Privacy Board	12
5	0054PB	D000063	Baseplate 4" X 4" 2-1/2" Post	2
6	0069PX		2-1/2" Scenic End Post Material 71-3/4"	2
7	2340PA	D020104	Vinyl Scenic Privacy Post Insert 71-3/4"	2
8	2657P	D000960	End/Line Pyramid (external) Post Cap	2
9	0495FA	D000224	Rubber Scenic Post Glass Setting Block 1-7/8"	2
10	0495FB	D020049	Rubber Scenic post glass setting block 3/8"	22
11	0096FA	D000332	Screw #10x3/4" PH Robertson TEK Zinc	4
12	2318P	D020048	L-Bracket 1-1/2 x 1-1/2 x 1/16 Black	2

DETAIL B
SCALE 2:15

Cendek
Railings Ltd.

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CREATED 6/10/2024
MATERIAL
DIE NO.
ALL DIMENSION IN INCHES/mm

DESCRIPTION

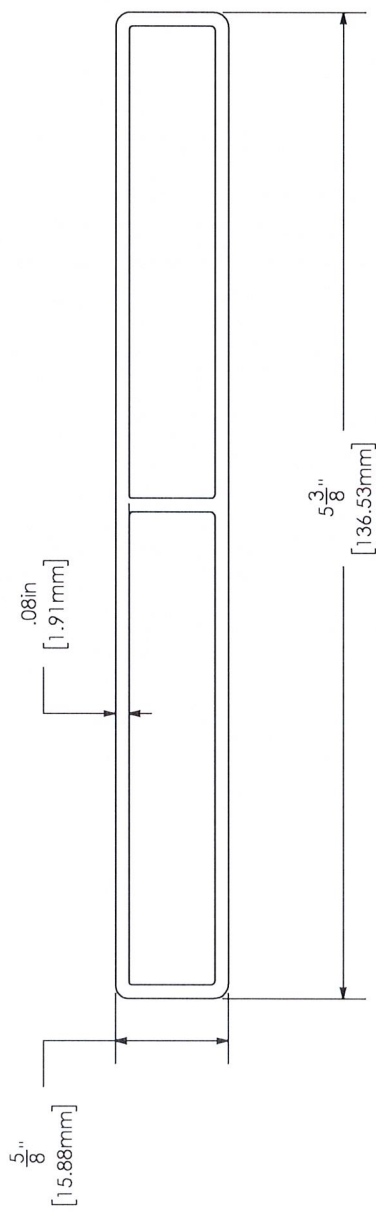
5ft Privacy Wall - Century Fascia
Mount

REV.	DESCRIPTION	DATE	INITIALS
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Part No. NA	Eng No. 2427AB
Weight 85.31 Lbs	SHEET 1 OF 1 Rev -

4 3 2 1

D C B A



Test sample complies with these details.
Deviations are noted.

Report #: 105626012C08-005A

Date: 06/11/24 Tech: C.C.

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<div>DRAWN BY</div> <div>CREATED</div> <div>MATERIAL</div> <div>DIE NO.</div> <div>ALL DIMENSION IN INCHES/mm</div>	Engl	<div>DESCRIPTION</div> <div>5/8" X 5-3/8" X 70-5/8" Privacy Board</div>	
	1/13/2022		
	6063-T5		
Part No.		Eng No. 2677PC	
Weight 6.26 lbs		SHEET 1 OF 1	Rev -

4 3 2 1

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SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	06/11/24	N/A	Original Report Issue