

CENDEK RAILINGS LTD.

TEST REPORT

SCOPE OF WORK

REPORT OF 8 FT. ROUND RAIL COMPONENT RAILING SYSTEMS TESTED IN ACCORDANCE WITH ASTM E935-21, *STANDARD TEST METHODS FOR PERFORMANCE OF PERMANENT METAL RAILING SYSTEMS AND RAILS FOR BUILDINGS*

REPORT NUMBER

106332795COQ-001A

TEST DATE

11/19/25 – 12/01/25

ISSUE DATE

02/13/26

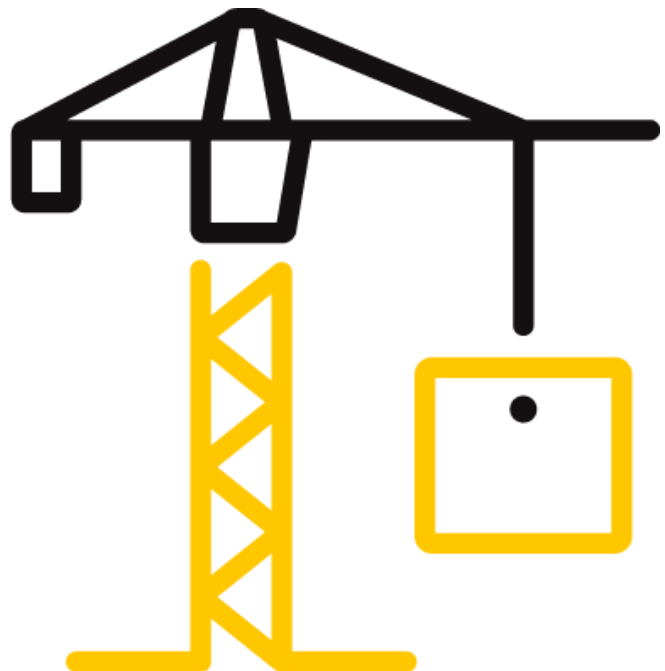
PAGES

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TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

REPORT ISSUED TO CENDEK RAILINGS LTD.

9685 Agur Street
Summerland, BC
V0H 1Z2
Canada

SECTION 1 SCOPE

Intertek Building & Construction (B&C) was contracted by Cendek Railings Ltd., 9685 Agur Street, Summerland, BC, V0H 1Z2, Canada, to perform testing on various 8 ft. aluminum railing systems 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 systems to resist the load requirements of Section 9.8.8.2 of the 2025 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 from November to December 2025.

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:	02/13/26	DATE:	02/13/26

EGBC Permit No.: 1000953

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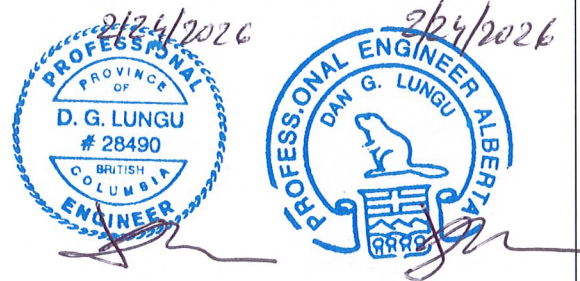
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- Intertek Engineers do not assume professional responsibility of Engineer of Record.
- Compliance to Building Codes must be approved by the Engineer of Record or Authority Having Jurisdiction.
- Intertek Engineer's seal and signature is limited to 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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Date: 02/13/26

SECTION 2

SUMMARY OF TEST RESULTS

SYSTEM DESCRIPTION	TEST	PASS/FAIL
8 ft. Round Rail Component Picket Railing System – Surface Mount	In-fill Load	Pass
	Vertical Uniform Load Test	Pass
	Horizontal Uniform Load Test	Pass
	Horizontal – Mid-Span Concentrated Load	Pass
	Horizontal – Adjacent to Post Concentrated Load	Pass
	Horizontal – Top of Post Concentrated Load	Pass
	Size of Opening	Pass
8 ft. Round Rail Component Picket Railing System – Fascia Mount	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	Pass
8 ft. Round Rail Component Picket Railing System – Wall Bracket Mount	In-fill Load	Pass
	Vertical Uniform Load Test	Pass
	Horizontal Uniform Load Test	Pass
	Horizontal – Mid-Span Concentrated Load	Pass
	Horizontal – Adjacent to Post Concentrated Load	Pass
	Size of Opening	Pass

Refer to Appendix B for photos of testing.

TEST REPORT FOR CENDEK RAILINGS LTD.

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SECTION 3

TEST LOADS

The guard specimens were 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:

2025 National Building Code of Canada (NBC)

- Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code (OBC)

- Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code (BCBC)

- Section 9.8.8.2 *Loads on Guards*

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

- Section 9.8.8.2 *Loads on Guards*

SECTION 4

MATERIAL SOURCE

The client submitted the railing systems to the Evaluation Center on November 17, 2025 (Coquitlam ID# VAN2511171127-001) and November 26, 2025 (Coquitlam ID# VAN2511261540-001). The samples were received in good condition and were suitable for testing unless noted otherwise. The samples were not independently selected for testing.

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SECTION 5 EQUIPMENT

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

ASSET #	DESCRIPTION	MODEL	CAL DUE DATE
P60692	Artech 5k lb S-Type Load Cell	20210-5k	01/02/26
P60688	Artech 1k lb S-Type Load Cell	20210-1K	01/02/26
D7849	HOBO Onset Temperature and Humidity Logger	MX1101	05/09/26
P60624	Extech Stopwatch	365515	12/19/25
P60494	Stanley Tape Measure	FatMax	12/03/25
P51566	Mitutoyo 6 in. Digital Caliper	CD-6	01/06/26
P60650	Fenestration Control Unit	ATI	03/12/26
D7817	Tyco Electronics Linear Transducer	PT1MA-20-UP-420E-M6	02/07/26

SECTION 6 LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Kevin Penner	Intertek B&C
Stanley Miguel	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.

TEST REPORT FOR CENDEK RAILINGS LTD.

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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 specimens were 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:

2025 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 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) None of the loads specified above need be considered to act simultaneously.

Note 1: A safety factor of 1.67-2.5 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
- $\phi=0.60$ resistance factor for wood fastener connections, resulting safety factor = 2.5

IN-FILL LOAD TEST

A test load was applied using a 300 mm x 300 mm square block on the center of the railing system 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.

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UNIFORM LOAD TEST

Uniform test loads were applied vertically to the top of the guardrail system and horizontally to the top of the guardrail system. 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.

CONCENTRATED LOAD TEST

Concentrated test loads were applied horizontally at the midspan of the top of the guard, at the top rail adjacent to the post connection to verify the connection capacity, and at the top of post. After completion of the above load tests, the concentrated load at the top of post was loaded until failure.

SIZE OF OPENING

The opening between adjacent vertical elements was subjected to a specified live load of 0.1 kN applied in opposite directions and measured. At the applied load, the size of opening was measured with a caliper.

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SECTION 8

TEST SPECIMEN DESCRIPTION

The samples were identified as the following:

TABLE 1. RAILING CONFIGURATION						
PART NAME	QTY	PART DIMENSIONS				REPORTED MATERIAL
		LENGTH	WIDTH	HEIGHT	NOMINAL THICKNESS	
SURFACE MOUNT RAILING SYSTEM						
Post	2	2.50 in.	2.50 in.	42.5 in.	0.07 in.	6063-T5 Aluminum
Baseplate	2	4.00 in.	4.00 in.	0.25 in.	-	6063-T5 Aluminum
Top Rail	1	93.0 in.	2.36 in.	1.88 in.	0.07 in.	6063-T5 Aluminum
Bottom Rail	1	93.0 in.	1.32 in.	1.41 in.	0.07 in.	6063-T5 Aluminum
Support Leg	2	2.50 in.	1.00 in.	2.92 in.	0.13 in.	6063-T5 Aluminum
Infill - Picket	25	0.63 in.	0.63 in.	37.9 in.	0.05 in.	6063-T5 Aluminum
FASCIA MOUNT RAILING SYSTEM						
Post	2	2.50 in.	2.50 in.	42.5 in.	0.07 in.	6063-T5 Aluminum
Baseplate	2	4.00 in.	4.00 in.	0.25 in.	-	6063-T5 Aluminum
Fascia Mount Bracket	2	5.29 in.	4.50 in.	7.00 in.	-	6063-T5 Aluminum
Top Rail	1	93.0 in.	2.36 in.	1.88 in.	0.07 in.	6063-T5 Aluminum
Bottom Rail	1	93.0 in.	1.32 in.	1.41 in.	0.07 in.	6063-T5 Aluminum
Support Leg	3	3.82 in.	1.25 in.	6.93 in.	0.19 in.	6063-T5 Aluminum
Infill - Picket	25	0.63 in.	0.63 in.	37.9 in.	0.05 in.	6063-T5 Aluminum
WALL BRACKET MOUNT RAILING SYSTEM						
Wall Bracket – Top Rail	2	1.42 in.	2.50 in.	3.50 in.	-	6063-T5 Aluminum
Wall Bracket – Bottom Rail	2	1.03 in.	1.75 in.	2.38 in.	-	6063-T5 Aluminum
Top Rail	1	93.0 in.	2.36 in.	1.88 in.	0.07 in.	6063-T5 Aluminum
Bottom Rail	1	93.0 in.	1.32 in.	1.41 in.	0.07 in.	6063-T5 Aluminum
Support Leg	2	3.82 in.	1.25 in.	6.93 in.	0.19 in.	6063-T5 Aluminum
Infill - Picket	25	0.63 in.	0.63 in.	37.9 in.	0.05 in.	6063-T5 Aluminum

Note 2: The Surface Mount and Wall Bracket Mount railing systems had two (2) support legs positioned under the bottom rail spaced 31 in. from each end. The Fascia Mount railing system had three (3) support legs positioned under the bottom rail – one (1) at midspan and the other two (2) spaced at 22 in. from each end. The support legs were set on a steel test frame. For detailed drawings of the test samples and components, refer to Appendix C.

Note 3: 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 assembly was attached to a rigid test support using steel plates with four (4) 3/8 in. Grade 5 bolts on each post.

TEST REPORT FOR CENDEK RAILINGS LTD.

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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 8 ft. Round Rail Component Railing Systems 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:

2025 National Building Code of Canada (NBC)

- Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code (OBC)

- Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code (BCBC)

- Section 9.8.8.2 *Loads on Guards*

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

- Section 9.8.8.2 *Loads on Guards*

The Cendek Railings Ltd. 8 ft. Round Rail Component Railing Systems identified and evaluated in this report have 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.

TEST REPORT FOR CENDEK RAILINGS LTD.

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Date: 02/13/26

SECTION 11

APPENDIX A – TEST DATA (5 PAGES)

Company	Cendek Railings Ltd.	Technician(s)	Kevin Penner, Stanley Miguel
Project No.	G106332795	Reviewer	Baldeep Sandhu, Dan Lungu, Kal Kooner
Models	Surface Mount, Fascia Mount, Wall Bracket Mount	Start/End Date	November 19 - December 1, 2025
Product Name	8 ft. Round Rail Component Aluminum Railing Systems	Sample ID	VAN2511171127-001, VAN2511261540-001
Standard	2025 NBC/2024 BCBC/2024 OBC/2023 NBC-AE, Section 9.8.8.2		

Test Data Package

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Test Data - Fascia Mount - Outward	3
Test Data - Fascia Mount - Inward	4
Test Data - Wall Bracket Mount	5

Test: Loads on Guards - Section 9.8.8.2

Date: 19-Nov-25

Client: Cendek Railings Ltd.

Product: **8 ft. Round Rail Component Aluminum Railing System - Surface Mount**

Post Spacing: 8.00 ft 2.44 m

Height of Guard: 42.1 in 1070 mm

Opening in Guard: 3.0 in 76 mm (between pickets)

2.00 in 51 mm (under bottom rail)

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

2025 National Building Code of Canada, Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code, Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code, Section 9.8.8.2 *Loads on Guards*

2023 National Building Code - Alberta Edition, Section 9.8.8.2 *Loads on Guards*

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 2, 2026)

Artech 1000 lbf Load Cell (Intertek ID# P60688, cal due January 2, 2026)

HOBO Onset MX1101 Temperature and Humidity Logger (Intertek ID# D7849, cal due May 9, 2026)

Stopwatch (Intertek ID# P60624, cal due December 19, 2025)

Stanley Tape Measure (Intertek ID# P60494, cal due December 3, 2025)

Mitutoyo Digital Caliper (Intertek ID# P51566, cal due January 6, 2026)

Fenestration Control Unit (Intertek ID# P60650, cal due March 12, 2026)

Tyco Electronics Linear Transducer (Intertek ID# D7817, cal due February 7, 2026)

Time/Temp/RH: 9:30AM / 22.5°C / 47.3%

Project: G106332795

Eng/Tech: Kevin Penner / Stanley Miguel

Reviewer: Baldeep Sandhu

Location: Coquitlam, BC, Canada

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Calculated Moment (lbf-ft)	Equivalent Quarter-Point Load (lbf)	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Outward	Individual Elements (over 12 in. x 12 in.)	112	187	-	-	187	2.072	Pass
	Vertical Uniform Load (per ft)	103	171	1370	685	1370	0.486	Pass
	Horizontal Uniform Load (per ft)	34	57	457	228	457	2.337	Pass
	Midspan Horizontal Concentrated Load	225	375	-	-	375	2.450	Pass
	Adjacent to Post Concentrated Load	225	503	-	-	503	3.525	Pass
	Top of Post Concentrated Load	225	375	-	-	375	2.198	Pass
	Top of Post Concentrated Load Ultimate Load	531.1 lbf - Screws connecting baseplate to post pulled through baseplate						
In-plane	Size of Opening	22.5	-	-	-	22.5	3.871	

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Calculated Moment (kNm)	Equivalent Quarter-Point Load (kN)	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Outward	Individual Elements (over 300 mm in. x 300 mm)	0.5	0.83	-	-	0.83	52.6	Pass
	Vertical Uniform Load (per m)	1.5	2.50	1.86	3.05	6.10	12.4	Pass
	Horizontal Uniform Load (per m)	0.5	0.83	0.62	1.02	2.03	59.4	Pass
	Midspan Horizontal Concentrated Load	1	1.67	-	-	1.67	62.2	Pass
	Adjacent to Post Concentrated Load	1	2.24	-	-	2.24	89.5	Pass
	Top of Post Concentrated Load	1	1.67	-	-	1.67	55.8	Pass
	Top of Post Concentrated Load Ultimate Load	2.36 kN - Screws connecting baseplate to post pulled through baseplate						
In-plane	Size of Opening	0.1	-	-	-	0.10	98.3	Pass

ULTIMATE LOAD: 531.1 lbf (2.36 kN)

Test: **Loads on Guards - Section 9.8.8.2 (Outward)**
Date: 1-Dec-25
Client: Cendek Railings Ltd.
Product: **8 ft. Round Rail Component Aluminum Railing System - Fascia**

Project: G106332795
Eng/Tech: Stanley Miguel / Kevin Penner
Reviewer: Baldeep Sandhu
Location: Coquitlam, BC, Canada

Post Spacing: 8.00 ft 2.44 m
Height of Guard: 42.1 in 1070 mm
Opening in Guard: 3.00 in 76 mm (between panels)
2.00 in 51 mm (under bottom panel)

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

2025 National Building Code of Canada, Section 9.8.8.2 *Loads on Guards*

2024 Ontario Building Code, Section 9.8.8.2 *Loads on Guards*

2024 British Columbia Building Code, Section 9.8.8.2 *Loads on Guards*

2023 National Building Code - Alberta Edition, Section 9.8.8.2 *Loads on Guards*

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 2, 2026)
Artech 1000 lbf Load Cell (Intertek ID# P60688, cal due January 2, 2026)
HOBO Onset MX1101 Temperature and Humidity Logger (Intertek ID# D7849, cal due May 9, 2026)
Stopwatch (Intertek ID# P60624, cal due December 19, 2025)
Stanley Tape Measure (Intertek ID# P60494, cal due December 3, 2025)
Mitutoyo Digital Caliper (Intertek ID# P51566, cal due January 6, 2026)
Fenestration Control Unit (Intertek ID# P60650, cal due March 12, 2026)
Tyco Electronics Linear Transducer (Intertek ID# D7817, cal due February 7, 2026)

Time/Temp/RH: 8:20AM / 22.2°C / 48.6%

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Outward	Individual Elements (over 12 in. x 12 in.)	112	187	187	1.819	Pass
	Horizontal Uniform Load (per ft)	34	57	457	3.778	Pass
	Midspan Horizontal Concentrated Load	225	375	375	3.349	Pass
	Adjacent to Post Concentrated Load	225	503	503	7.405	Pass
	Top of Post Horizontal Concentrated Load	225	375	375	4.953	Pass
	Top of Post Horizontal Concentrated Load Ultimate Load	567.7 lbf - Post buckled at tip of internal base screws				
In-plane	Size of Opening	22.5	-	22.5	3.814	Pass

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Outward	Individual Elements (over 300 mm in. x 300 mm)	0.5	0.83	0.83	46.2	Pass
	Horizontal Uniform Load (per m)	0.5	0.83	2.03	96.0	Pass
	Midspan Horizontal Concentrated Load	1	1.67	1.67	85.1	Pass
	Adjacent to Post Concentrated Load	1	2.24	2.24	188.1	Pass
	Top of Post Horizontal Concentrated Load	1	1.67	1.67	125.8	Pass
	Top of Post Horizontal Concentrated Load Ultimate Load	2.53 kN - Post buckled at tip of internal base screws				
In-plane	Size of Opening	0.1	-	0.10	96.9	Pass

ULTIMATE LOAD: 567.7 lbf (2.53 kN)

Test: **Loads on Guards - Section 9.8.8.2 (Inward)**
Date: 1-Dec-25
Client: Cendek Railings Ltd.
Product: **8 ft. Round Rail Component Aluminum Railing System - Fascia**

Project: G106332795
Eng/Tech: Stanley Miguel / Kevin Penner
Reviewer: Baldeep Sandhu
Location: Coquitlam, BC, Canada

Post Spacing: 8.00 ft 2.44 m
Height of Guard: 42.1 in 1070 mm
Opening in Guard: 3.00 in 76 mm (between panels)
2.00 in 51 mm (under bottom panel)

Method: ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*
2025 National Building Code of Canada, Section 9.8.8.2 *Loads on Guards*
2024 Ontario Building Code, Section 9.8.8.2 *Loads on Guards*
2024 British Columbia Building Code, Section 9.8.8.2 *Loads on Guards*
2023 National Building Code - Alberta Edition, Section 9.8.8.2 *Loads on Guards*

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 2, 2026)
Artech 1000 lbf Load Cell (Intertek ID# P60688, cal due January 2, 2026)
HOBO Onset MX1101 Temperature and Humidity Logger (Intertek ID# D7849, cal due May 9, 2026)
Stopwatch (Intertek ID# P60624, cal due December 19, 2025)
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Mitutoyo Digital Caliper (Intertek ID# P51566, cal due January 6, 2026)
Fenestration Control Unit (Intertek ID# P60650, cal due March 12, 2026)
Tyco Electronics Linear Transducer (Intertek ID# D7817, cal due February 7, 2026)

Time/Temp/RH: 8:20AM / 22.2°C / 48.6%

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Inward	Horizontal Uniform Load (per ft)	17	29	228	1.737	Pass
	Vertical Uniform Load (per ft)	103	171	1370	2.124	Pass
	Midspan Horizontal Concentrated Load	112	187	187	1.553	Pass
	Adjacent to Post Concentrated Load	112	251	251	2.517	Pass
	Top of Post Horizontal Concentrated Load	112	187	187	1.798	Pass

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Inward	Horizontal Uniform Load (per m)	0.25	0.42	1.02	44.1	Pass
	Vertical Uniform Load (per m)	1.5	2.50	6.10	53.9	Pass
	Midspan Horizontal Concentrated Load	0.5	0.83	0.83	39.5	Pass
	Adjacent to Post Concentrated Load	0.5	1.12	1.12	63.9	Pass
	Top of Post Horizontal Concentrated Load	0.5	0.83	0.83	45.7	Pass

Test: **Loads on Guards - Section 9.8.8.2**
Date: 20-Nov-25
Client: Cendek Railings Ltd.
Product: **8 ft. Round Rail Component Aluminum Railing System - Wall Bracket**

Project: G106332795
Eng/Tech: Kevin Penner / Stanley Miguel
Reviewer: Baldeep Sandhu
Location: Coquitlam, BC, Canada

Post Spacing: 8.00 ft 2.44 m
Height of Guard: 42.1 in 1070 mm
Opening in Guard: in mm (between pickets)
in mm (under bottom rail)

Method: ASTM E935-21, *Standard Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings*
2025 National Building Code of Canada, Section 9.8.8.2 *Loads on Guards*
2024 Ontario Building Code, Section 9.8.8.2 *Loads on Guards*
2024 British Columbia Building Code, Section 9.8.8.2 *Loads on Guards*
2023 National Building Code - Alberta Edition, Section 9.8.8.2 *Loads on Guards*
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 2, 2026)
Artech 1000 lbf Load Cell (Intertek ID# P60688, cal due January 2, 2026)
HOBO Onset MX1101 Temperature and Humidity Logger (Intertek ID# D7849, cal due May 9, 2026)
Stopwatch (Intertek ID# P60624, cal due December 19, 2025)
Stanley Tape Measure (Intertek ID# P60494, cal due December 3, 2025)
Mitutoyo Digital Caliper (Intertek ID# P51566, cal due January 6, 2026)
Fenestration Control Unit (Intertek ID# P60650, cal due March 12, 2026)
Tyco Electronics Linear Transducer (Intertek ID# D7817, cal due February 7, 2026)

Time/Temp/RH: 1:05PM / 21.8°C / 49.7%

Direction	Test	Design Load (Inward/Outward) (lbf)	Factored Load	Calculated Moment (lbf-ft)	Equivalent Quarter-Point Load (lbf)	Required Proof Load (lbf)	Deflections (in.)	Pass/Fail
Outward	Individual Elements (over 12 in. x 12 in.)	112	187	-	-	187	2.003	Pass
	Vertical Uniform Load (per ft)	103	171	1370	685	1370	0.345	Pass
	Horizontal Uniform Load (per ft)	34	57	457	228	457	1.516	Pass
	Midspan Horizontal Concentrated Load	225	375	-	-	375	1.799	Pass
	Adjacent to Post Concentrated Load	225	503	-	-	503	0.346	Pass
	Adjacent to Post Concentrated Load Ultimate Load	2632.7 lbf - Wall bracket weld broke						
In-plane	Size of Opening	22.5	-	-	-	22.5	3.820	Pass

Direction	Test	Design Load (Inward/Outward) (kN)	Factored Load	Calculated Moment (kNm)	Equivalent Quarter-Point Load (kN)	Required Proof Load (kN)	Deflections (mm)	Pass/Fail
Outward	Individual Elements (over 300 mm in. x 300 mm)	0.5	0.83	-	-	0.83	50.9	Pass
	Vertical Uniform Load (per m)	1.5	2.50	1.86	3.05	6.10	8.8	Pass
	Horizontal Uniform Load (per m)	0.5	0.83	0.62	1.02	2.03	38.5	Pass
	Midspan Horizontal Concentrated Load	1	1.67	-	-	1.67	45.7	Pass
	Adjacent to Post Concentrated Load	1	2.24	-	-	2.24	8.8	Pass
	Adjacent to Post Concentrated Load Ultimate Load	11.7 kN - Wall bracket weld broke						
In-plane	Size of Opening	0.1	-	-	-	0.10	97.0	Pass

ULTIMATE LOAD: 2632.7 lbf (11.7 kN)

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

APPENDIX B – PHOTOS (4 PAGES)

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

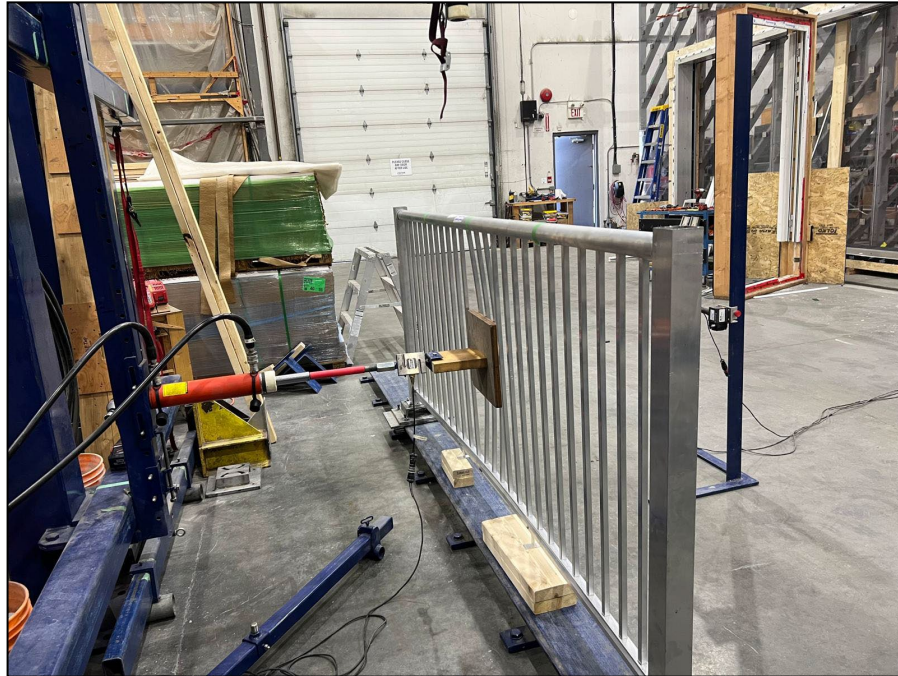


Figure 1 – Surface Mount – In-fill Load Test

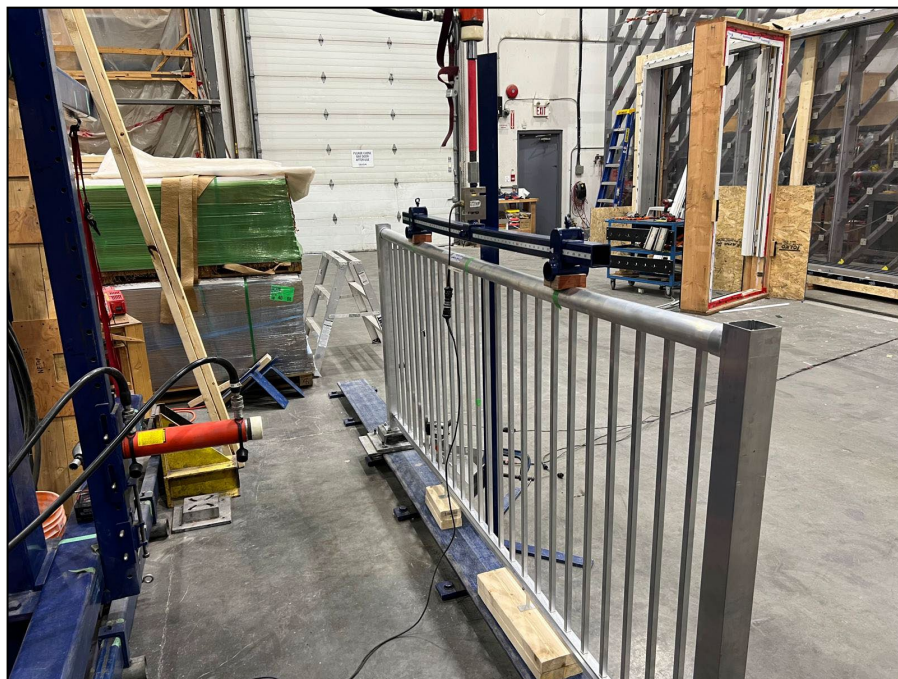


Figure 2 – Surface Mount – Vertical Uniform Load Test

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

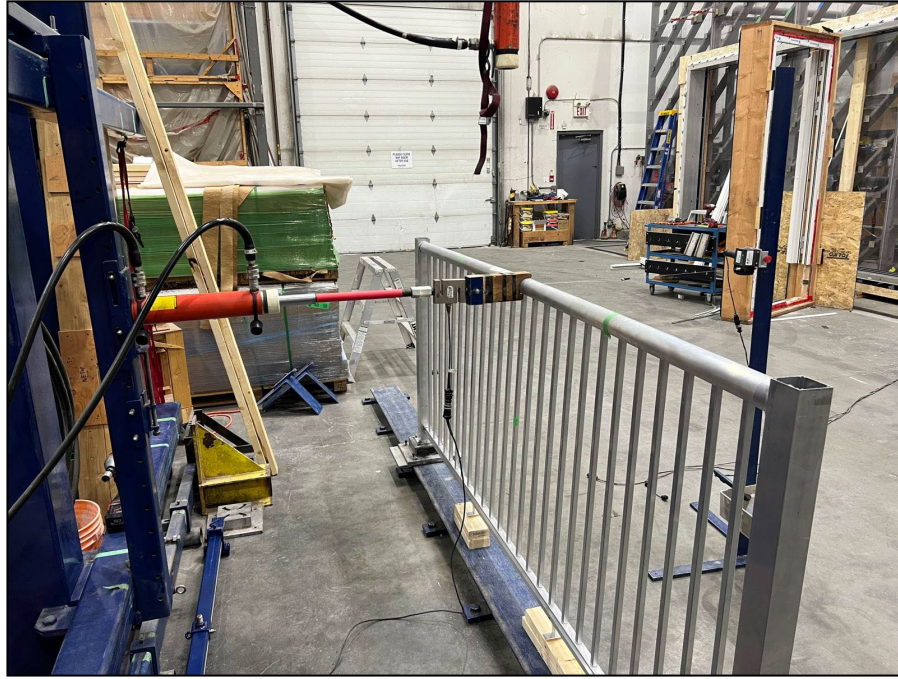


Figure 3 – Surface Mount – Mid-span of Top Rail Concentrated Load Test



Figure 4 – Fascia Mount – In-fill Load Test

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26



Figure 5 – Fascia Mount – Horizontal Uniform Load Test



Figure 6 – Fascia Mount – Adjacent to Post Connection Concentrated Load Test

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26



Figure 7 – Wall Bracket Mount – Vertical Uniform Load Test



Figure 8 – Wall Bracket Mount – Adjacent to Post Concentrated Load Test

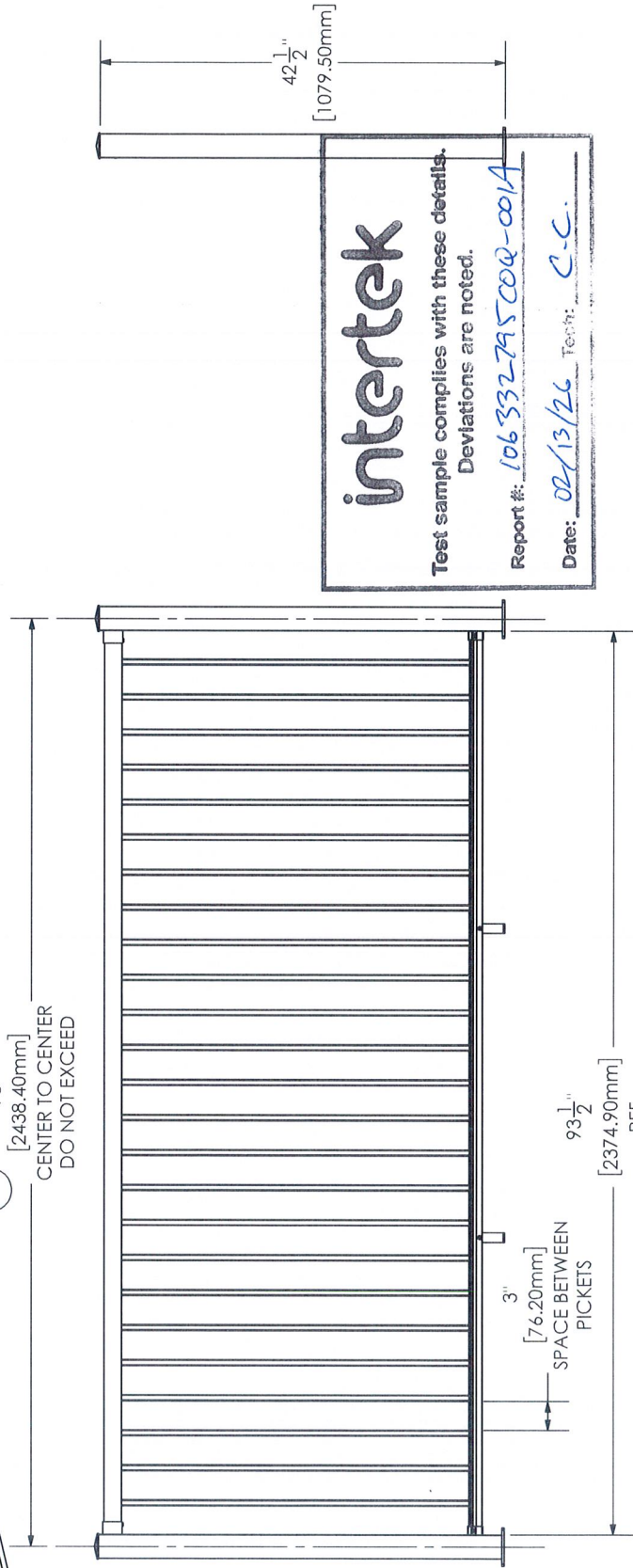
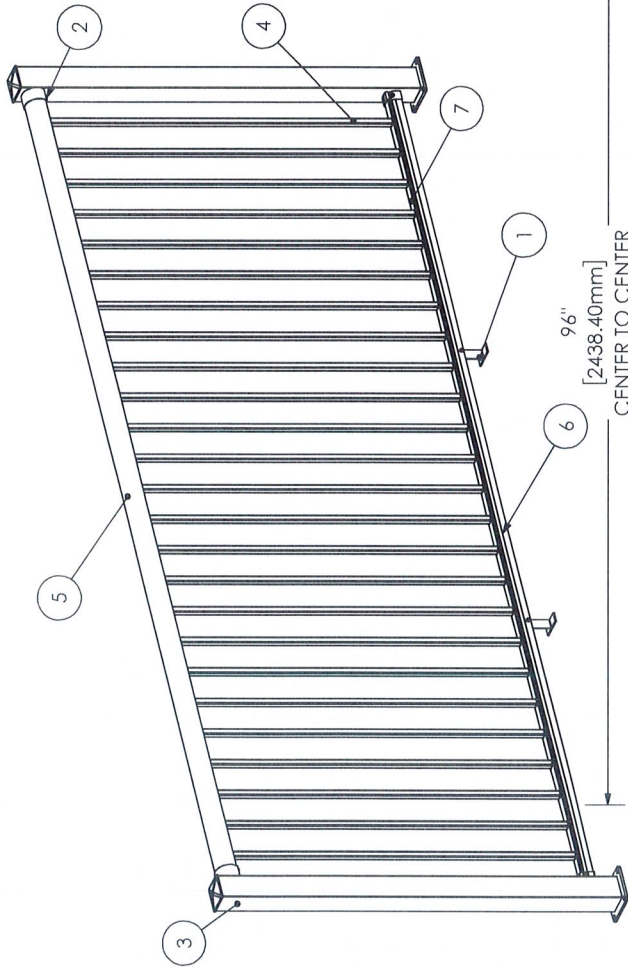
TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

APPENDIX C – DRAWINGS (13 PAGES)

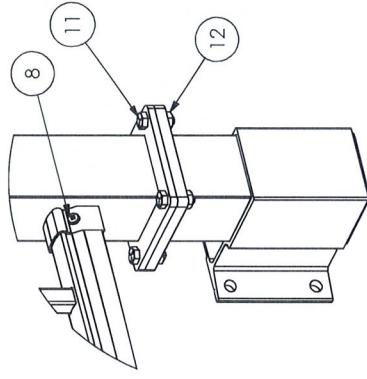
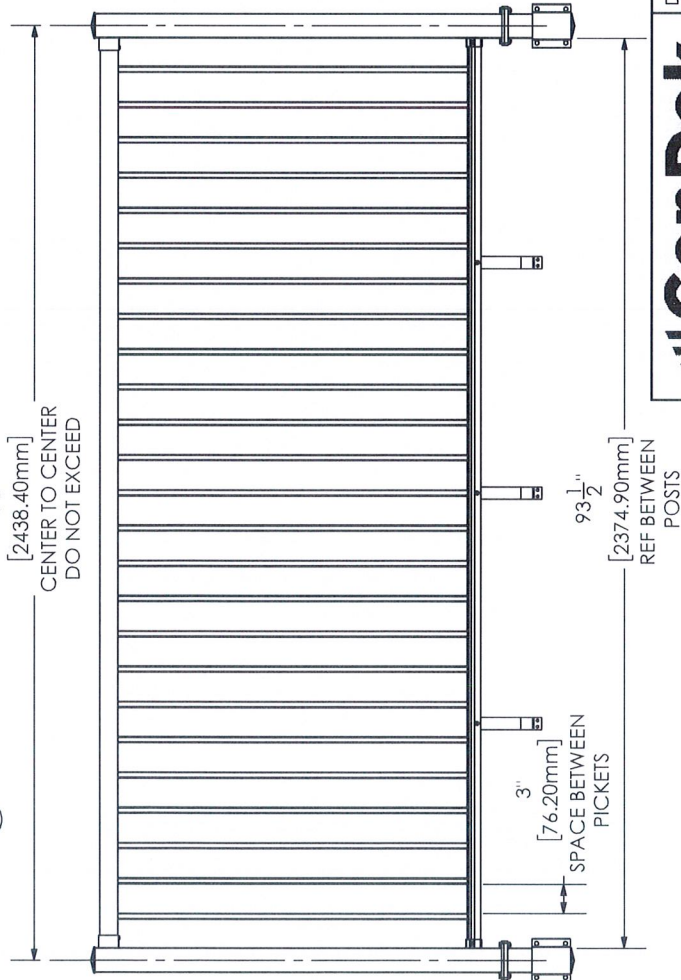
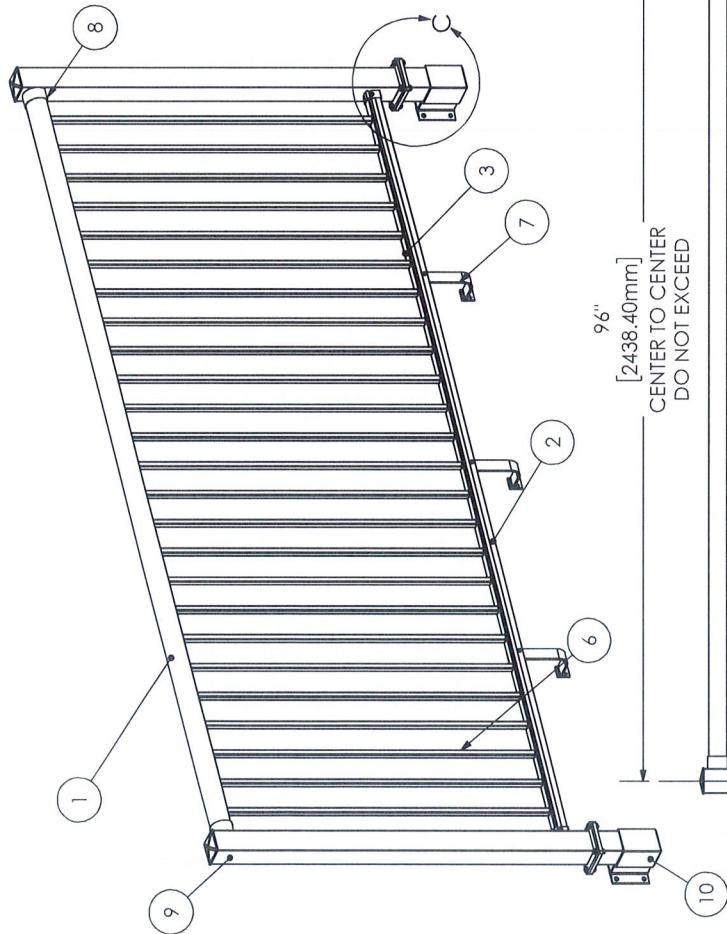
ITEM NO.	Eng No.	Material	DESCRIPTION	QTY.
1	0060PA	6063-T5	Support Leg Surface 1"	2
2	0096PA	C1018	Screw #10x3/4" PH Robertson TEK Zinc	12
3	0863AB1	6063-T5	2-1/2" End Post Round 42"	2
4	0489P	6063-T5	5/8" Picket 37-7/8"	25
5	0041P	6063-T5	Top Rail Component Round 92-3/4"	1
6	0057PF	6063-T5	Glass Bottom Rail 92-3/4"	1
7	3096PB	6063-T5	Bottom Rail Clip Punched 5/8" 3-0" Straight 92-3/4"	1
8	0159PD	PVC Rigid	Vinyl Insert Bottom Rail Picket 92-3/4"	1
9	0158PB	PVC Rigid	Vinyl Insert Top Rail Picket Universal/Round 92-3/4"	1



REV.	DESCRIPTION	DATE	INITIALS

CenDek Railings Ltd. PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CENDEK RAILINGS LTD. NO REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CENDEK RAILINGS LTD IS PROHIBITED.		DRAWN BY: Eng1 CREATED: 2025-12-04 MATERIAL: DIE NO.: ALL DIMENSION IN INCHES/MM	DESCRIPTION 8' Round Rail Component Picket – Surface Mount
Part No.: Weight: 28.21 Lbs		Eng No. 3232A SHEET 1 OF 1 Rev -	

ITEM NO.	Eng No.	Material	DESCRIPTION	QTY.
1	0041P	6063-T5	Top Rail Component Round 92-3/4"	1
2	0057PF	6063-T5	Glass Bottom Rail 92-3/4"	1
3	3096PB	6063-T5	Bottom Rail Clip Punched 5/8" 3-0" Straight 92-3/4"	1
4	0159PD	PVC Rigid	Vinyl Insert Bottom Rail Picket 92-3/4"	1
5	0158PB	PVC Rigid	Vinyl Insert Top Rail Picket Universal/Round 92-3/4"	1
6	0489P	6063-T5	5/8" Picket 37-7/8"	25
7	0076PG	6063-T5	Support Leg 2" Offset Fascia for 2-1/2" 1-1/4"	3
8	0096PA	C1018	Screw #10x3/4" PH Robertson TEK Zinc	14
9	0863AB1	6063-T5	2-1/2" End Post Round 42"	2
10	0217A	6063-T5	Fascia Bracket 2-1/2" Line/End/Stair with baseplate	2
11	2077P	AISI 304	Bolt Hex 5/16" x 1" NC Stainless	8
12	2557P	AISI 304	Nut Hex 5/16" Nyloc NC Stainless	8



DETAIL C

SCALE 1:6

intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332755 00Q-001A

Date: 02/13/26 Tech: C.C.

DESCRIPTION

8' Flat Rail Component Picket -
Fascia Mount

DRAWN BY	Eng1
CREATED	2025-12-04
MATERIAL	
DIE NO.	
ALL DIMENSION IN INCHES/mm	

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REVISIONS
DESCRIPTION

DATE INITIALS

Part No. Eng No. 3233A
Weight 34.12 Lbs SHEET 1 OF 1 Rev -

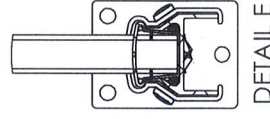
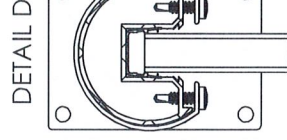
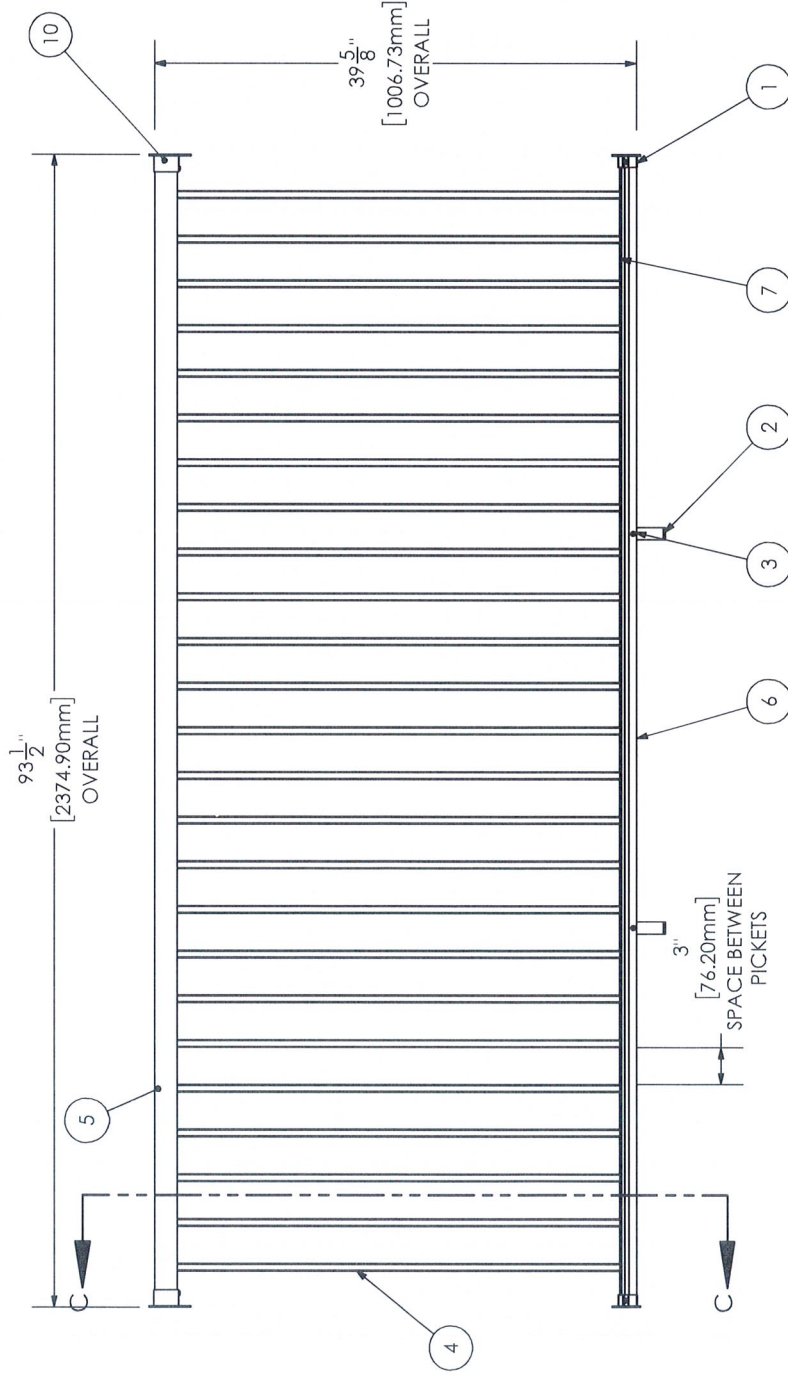
intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795CAQ-0014

Date: 02/13/26 Tech: C.C.

ITEM NO.	Eng No.	Material	DESCRIPTION	QTY.
1	0033A	6063-T5	Wall Bracket Bottom Rail	2
2	0060PA	6063-T5	Support Leg Surface 1"	2
3	0096PA	C1018	Screw #10x3/4" PH Robertson TEK Zinc	12
4	0489P	6063-T5	5/8" Picket 37-7/8"	25
5	0041P	6063-T5	Top Rail Component Round 92-3/4"	1
6	0057PF	6063-T5	Glass Bottom Rail 92-3/4"	1
7	3096PB	6063-T5	Bottom Rail Clip Punched 5/8" 3-0" Straight 92-3/4"	1
8	0159PD	PVC Rigid	Vinyl Insert Bottom Rail Picket 92-3/4"	1
9	0158PB	PVC Rigid	Vinyl Insert Top Rail Picket Universal/Round 92-3/4"	1
10	0032AA	6063-T5	Wall Bracket Round	2



SECTION C-C
SCALE 1 : 15

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DESCRIPTION

8' Round Rail Component Picket –
Wall Bracket Mount

DRAWN BY Eng1

CREATED 2025-12-04

MATERIAL

DIE NO.

ALL DIMENSION IN INCHES/mm

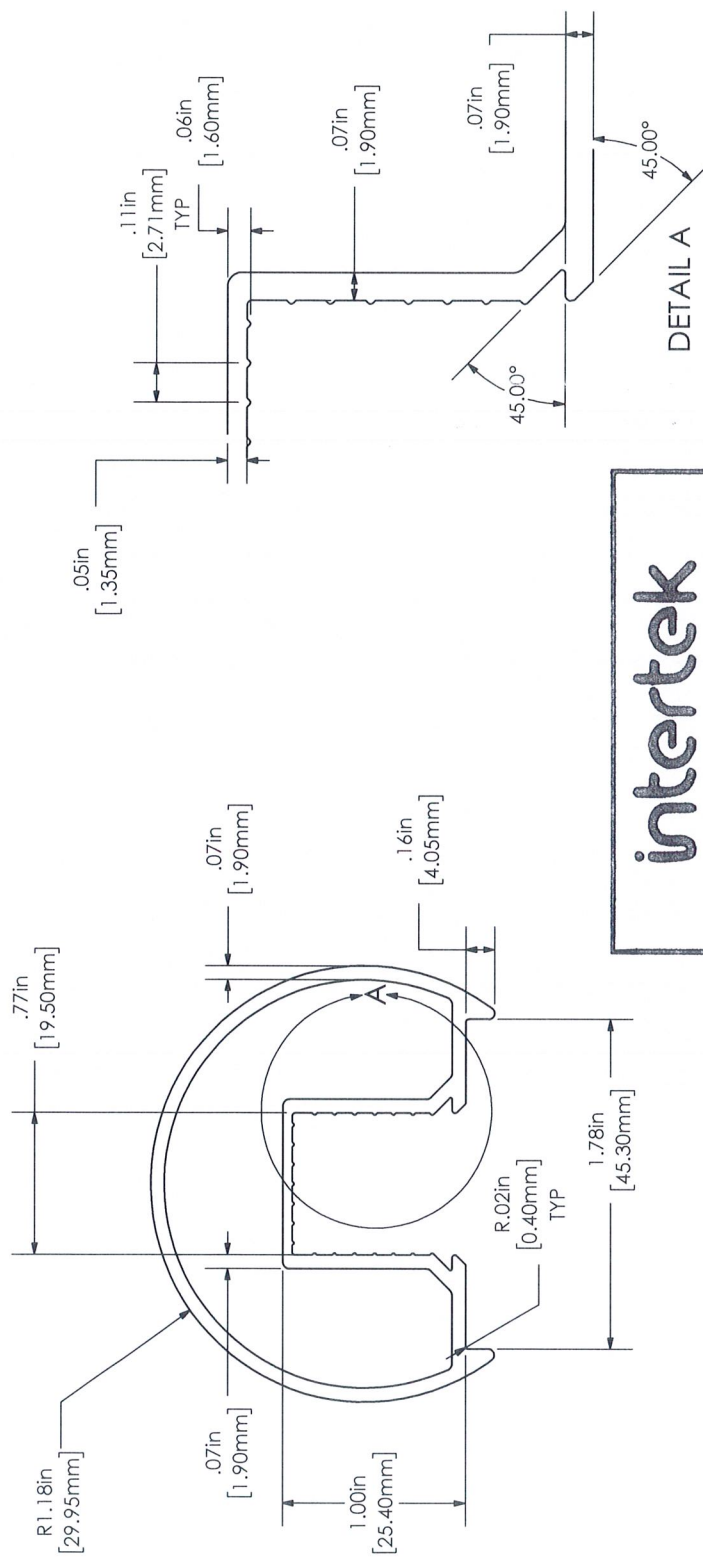
Part No. Eng No. 3234A
Weight 20.62 Lbs SHEET 1 OF 1 Rev -

REVISIONS

DESCRIPTION

DATE

INITIALS



intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795COQ-001A

Date: 02/13/26 Tech: C.C.

EXTRUSION TOLERANCE	
<1	±0.10
<1-2	±0.12
<2-3	±0.14
<3-4	±0.16
<4-6	±0.18
<6-12	±0.20
<12-19	±0.23
<19-25	±0.25
<25-38	±0.30
<38-50	±0.36
<50-100	±0.61
<100-150	±0.86
<150-200	±1.12
<200-250	±1.38

CUT LENGTH TOLERANCE		MACHINING TOLERANCE	
Dimension (mm)	Tolerance	Dimension (mm)	Tolerance
≤100	±0.5	≤10	±0.2
>100-500	±0.8	>10-20	±0.3
>500-1000	±1.0	>20-30	±0.4
>1000-1500	±1.5	>30-40	±0.5
>1500-3000	±1.8	>40-60	±0.6
>3000-6000	±2.0	>60-100	±0.8
Above 6000	±2.5	Above 100	±1.0

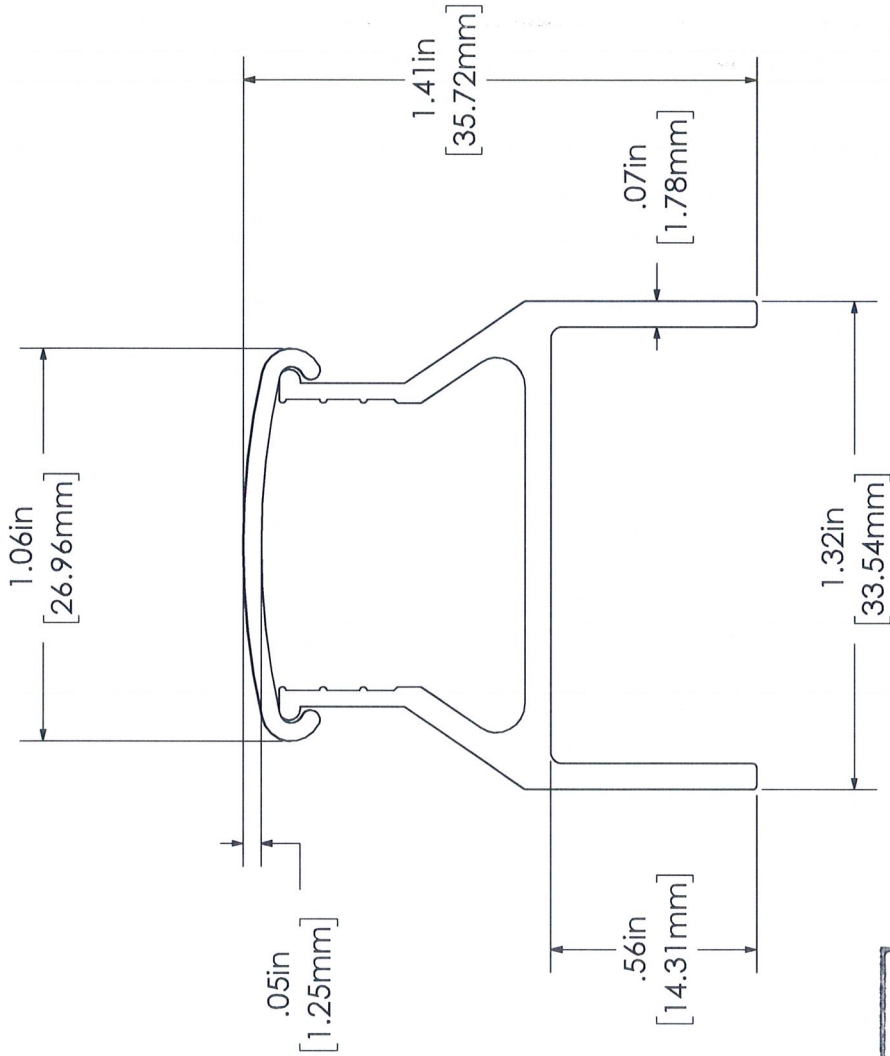
REVISIONS		
REV.	DESCRIPTION	DATE

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DRAWN BY	Admin	DESCRIPTION	Century Top Rail Die
CREATED	2017-11-03		
MATERIAL	6063-T5		
DIE NO.	DYG12073190		
ALL DIMENSION IN INCHES/mm			

Part No.	Eng No. 0041P
Weight 0.77 Lbs	SHEET 1 OF 2
	Rev -



Test sample complies with these details.
Deviations are noted.

Report #: 106332795C0Q-001A

Date: 02/13/26 Tech: C.C.

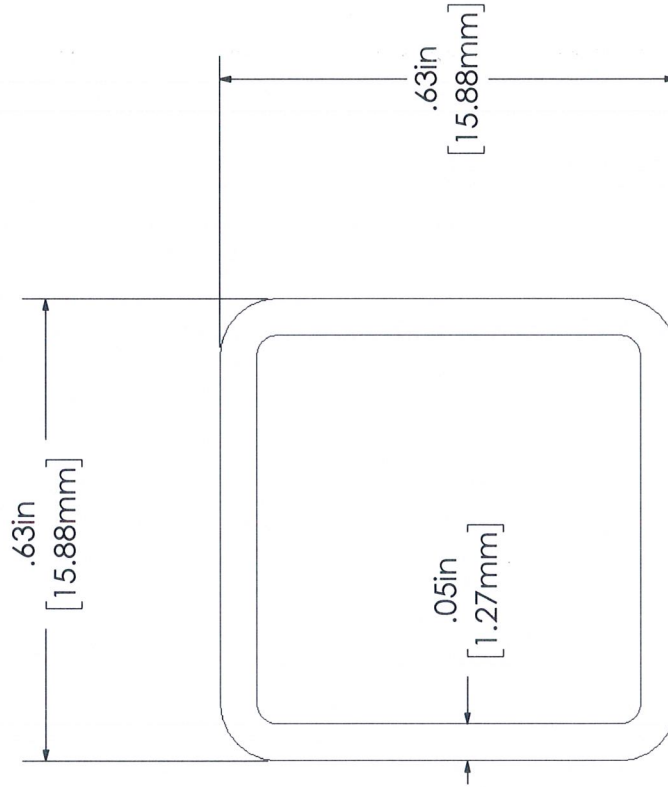
Date: 02/13/26 Tech: C.C.				 PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF CENDEK RAILINGS LTD. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF CENDEK RAILINGS LTD IS PROHIBITED.				DRAWN BY CREATED MATERIAL DIE NO. ALL DIMENSION IN INCHES/mm				DESCRIPTION 5/8" Picket Bottom Rail				Part No. Eng No. 0684AH	
												Weight SHEET 1 OF 1		Rev -			

intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795 COQ -001A

Date: 02/13/26 Tech: C.C.



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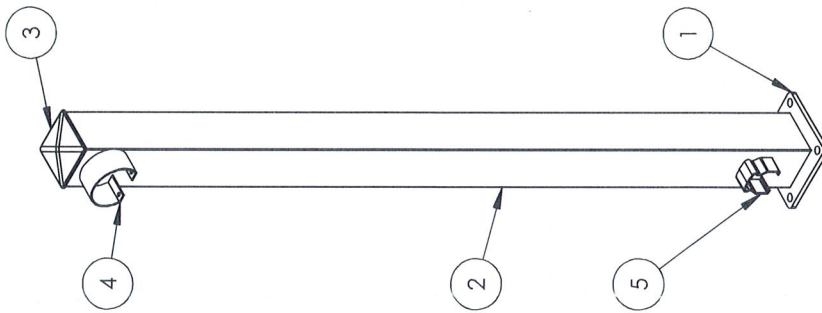
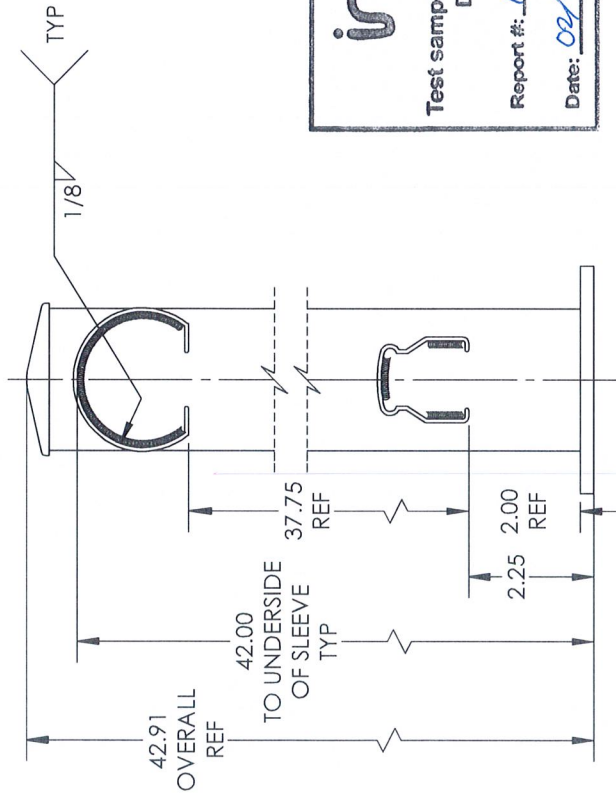
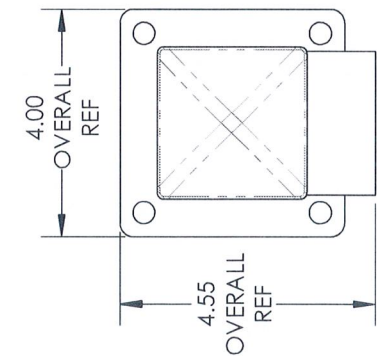
DESCRIPTION
5/8" Picket

DRAWN BY Admin
CREATED 2018-02-28
MATERIAL 6063-T5
DIE NO.

ALL DIMENSION IN INCHES/mm

Part No.	Eng No.
Weight 0.12 Lbs	SHEET 2 OF 2
	Rev -

REVISIONS		
REV.	DESCRIPTION	DATE INITIALS



ITEM NO.	Eng No.	Part No.	Description	QTY.
1	0054PB	D000063	Baseplate 4"x 4" x 1/4" for 2-1/2" Post	1
2	0071PD	D001471	2-1/2" Post Material 42-1/4"	1
3	0078P	D000167	Post Cap Pyramid 2-1/2" (Inner)	1
4	0012P	D000506	Sleeve Round 1-1/4"	1
5	0051PA	D000505	Sleeve Bottom Rail Welded 1"	1

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DRAWN BY	Admin
CREATED	2017-10-18
MATERIAL	6063-T5
DIE NO.	
ALL DIMENSION IN INCHES/MM	

DESCRIPTION
2-1/2" End Post Round 42"

Part No. D000507
Weight 4.03 Lbs
Eng No. 0863AB1
SHEET 1 OF 1 Rev 1

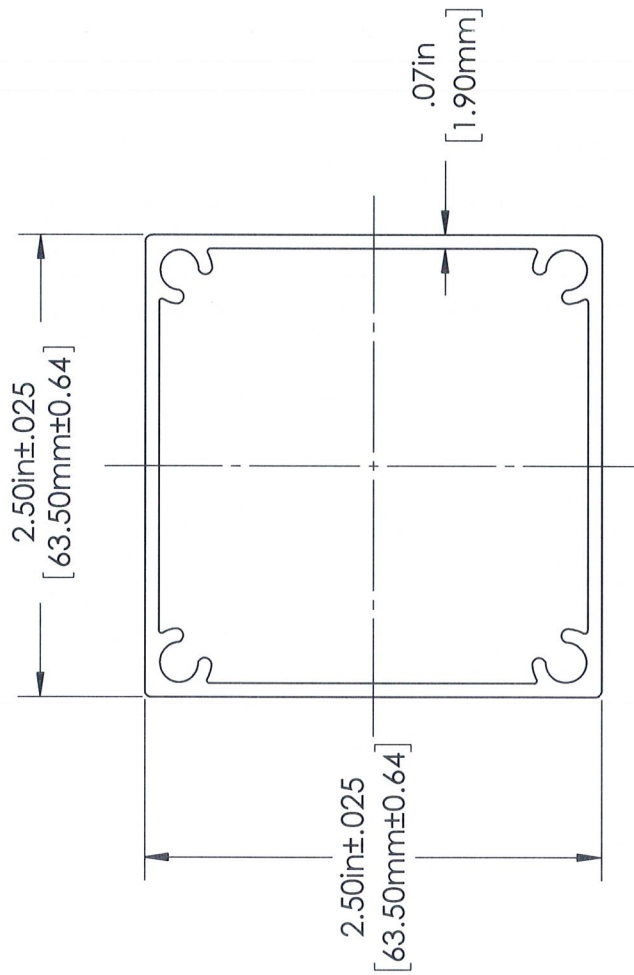
REVISIONS		
REV.	DATE	INITIALS
1	11/15/18	CC

intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795002-001A

Date: 02/13/26 Tech: C.C.



CenDek
Railings Ltd.

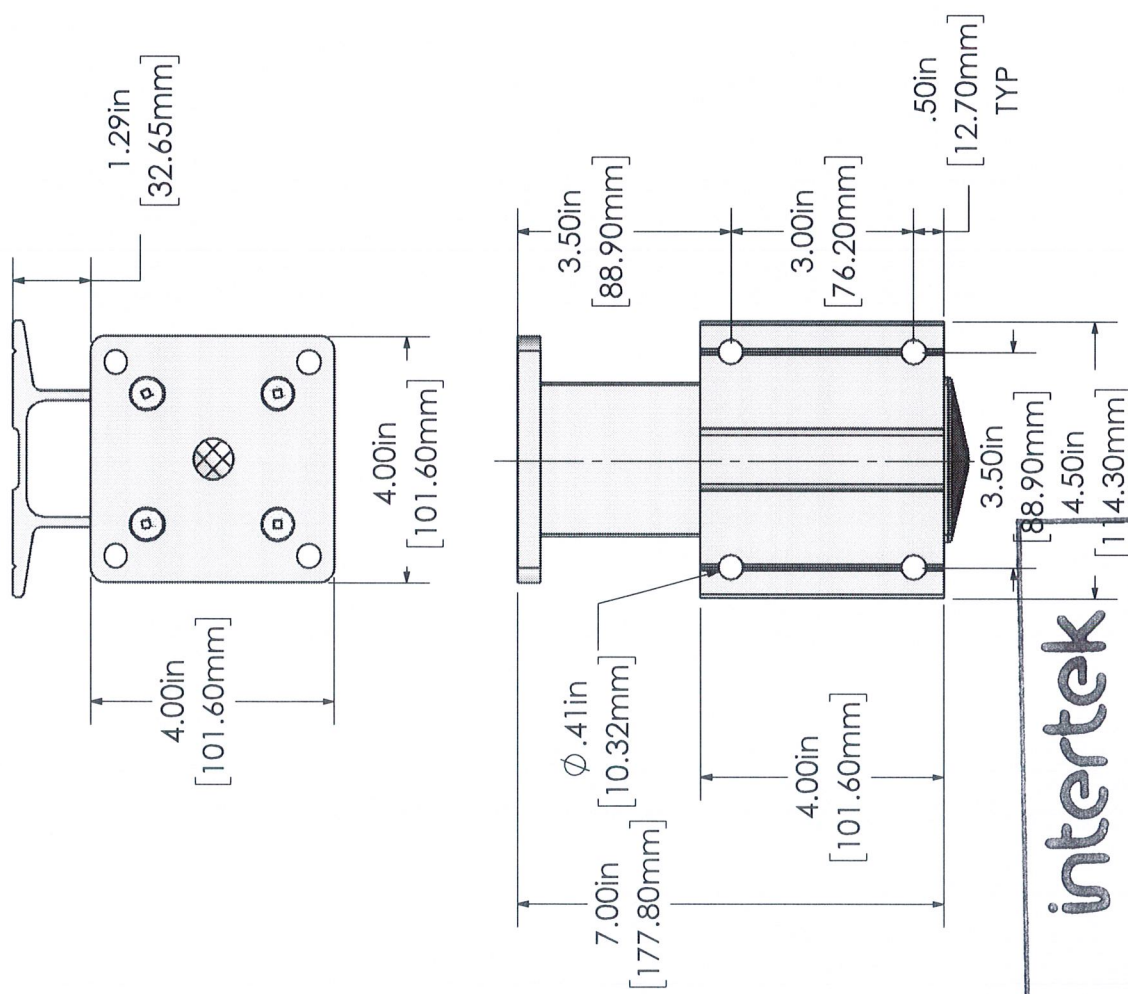
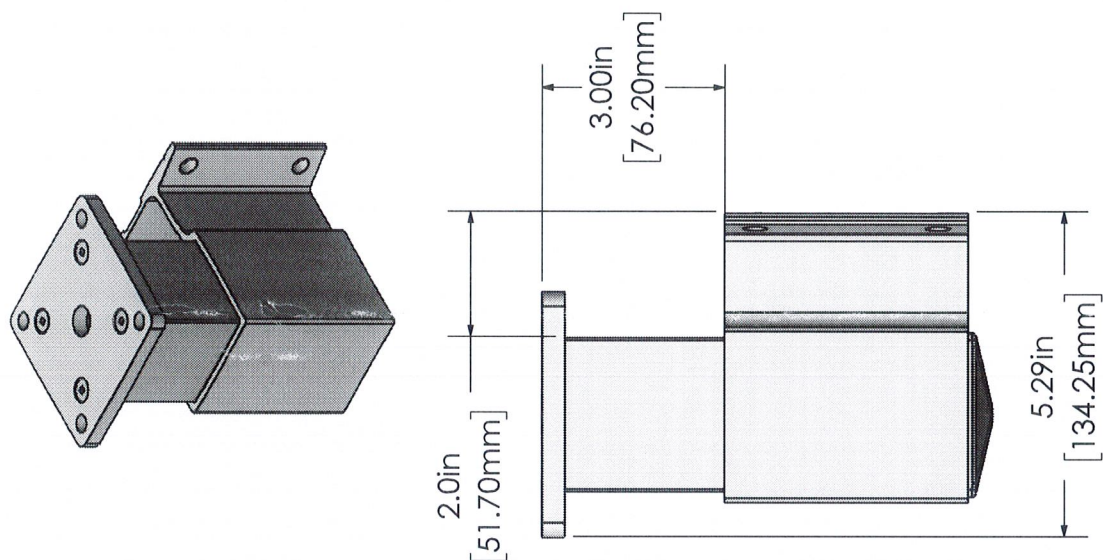
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DRAWN BY Admin
CREATED 2017-11-06
MATERIAL 6063-T5
DIE NO. DYG12076190
ALL DIMENSION IN INCHES/MM

DESCRIPTION
2-1/2" Post Material

REVISIONS		
REV.	DESCRIPTION	DATE

Part No.	Eng No. 0071PV
Weight 0.98 Lbs	SHEET 2 OF 2
	Rev 2



intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332745C0Q-001A

Date: 02/13/26 Tech: C.C.

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DRAWN BY	Admin
CREATED	10/21/2024
MATERIAL	6063-T5
DIE NO.	
ALL DIMENSION IN INCHES/MM	

DESCRIPTION	
Fascia Bracket 2-1/2" Line/End/Stair with baseplate	
Part No. D000610	Eng. No. 0217A
Weight 2.39 Lbs	SHEET 2 OF 2
	Rev 2

1.14in±.04
[28.95mm±1]

.89in
[22.59mm]

.50in
[12.72mm]

2.30in
[58.31mm]

.38in
[9.54mm]

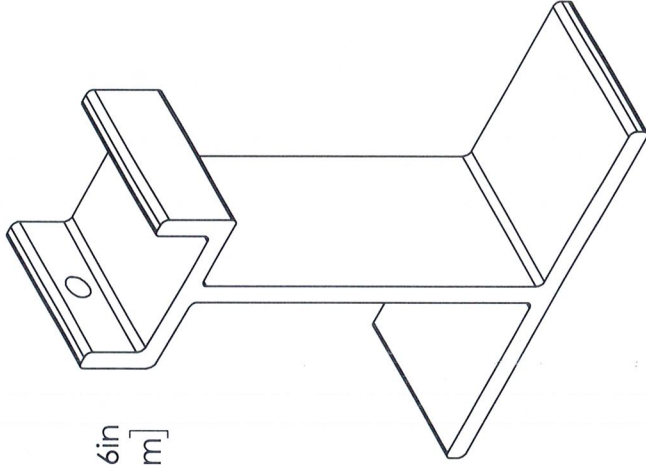
2.92in±.04
[74.21mm±1]

R.04in
[1mm]

2.50in
[63.58mm]

1"
[25.40mm]

φ.16in
[4mm]



intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795C0Q-001A

Date: 02/13/26 Tech: C.C.

EXTRUSION TOLERANCE	CUT LENGTH TOLERANCE	
	Dimension (mm)	Tolerance
<1	±0.10	
<1-2	±0.12	
<2-3	±0.14	
<3-4	±0.16	
<4-6	±0.18	
<6-12	±0.20	
<12-19	±0.23	
<19-25	±0.25	
<25-38	±0.30	
<38-50	±0.36	
<50-100	±0.61	
<100-150	±0.86	
<150-200	±1.12	
<200-250	±1.38	

MACHINING TOLERANCE	Tolerance	
	Dimension (mm)	Tolerance
≤100	±0.5	±0.2
>100<500	±0.8	±0.3
>500<1000	±1.0	±0.4
>1000<1500	±1.5	±0.5
>1500<3000	±1.8	±0.6
>3000<6000	±2.0	±0.8
Above 6000	±2.5	±1.0

REVISIONS			
REV.	DESCRIPTION	DATE	INITIALS
2	WIDTH FROM 1.25" TO 1"	2/16/2018	CC
3	PAINT THICKNESS NOTE	9/20/2024	CC
4	PAINT SURFACES NOTE	2024-10-18	DF

ALL EXTERNAL SURFACES PAINTED
UNLESS OTHERWISE SPECIFIED

TYPICAL PAINT THICKNESS 2-4MILL (0.002"-0.004")

CenDek

Railings Ltd.

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DRAWN BYAdmin

CREATED2017-10-02

MATERIAL6063-T5

DIE NO.

ALL DIMENSION IN INCHES/MM

DESCRIPTION

Support Leg Surface 1"

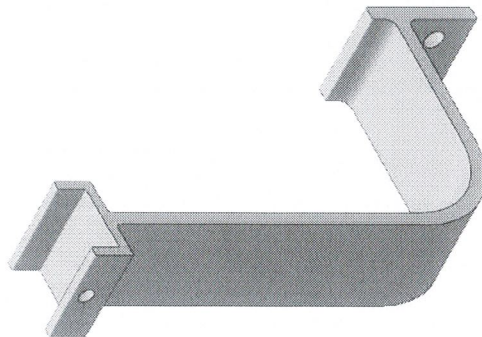
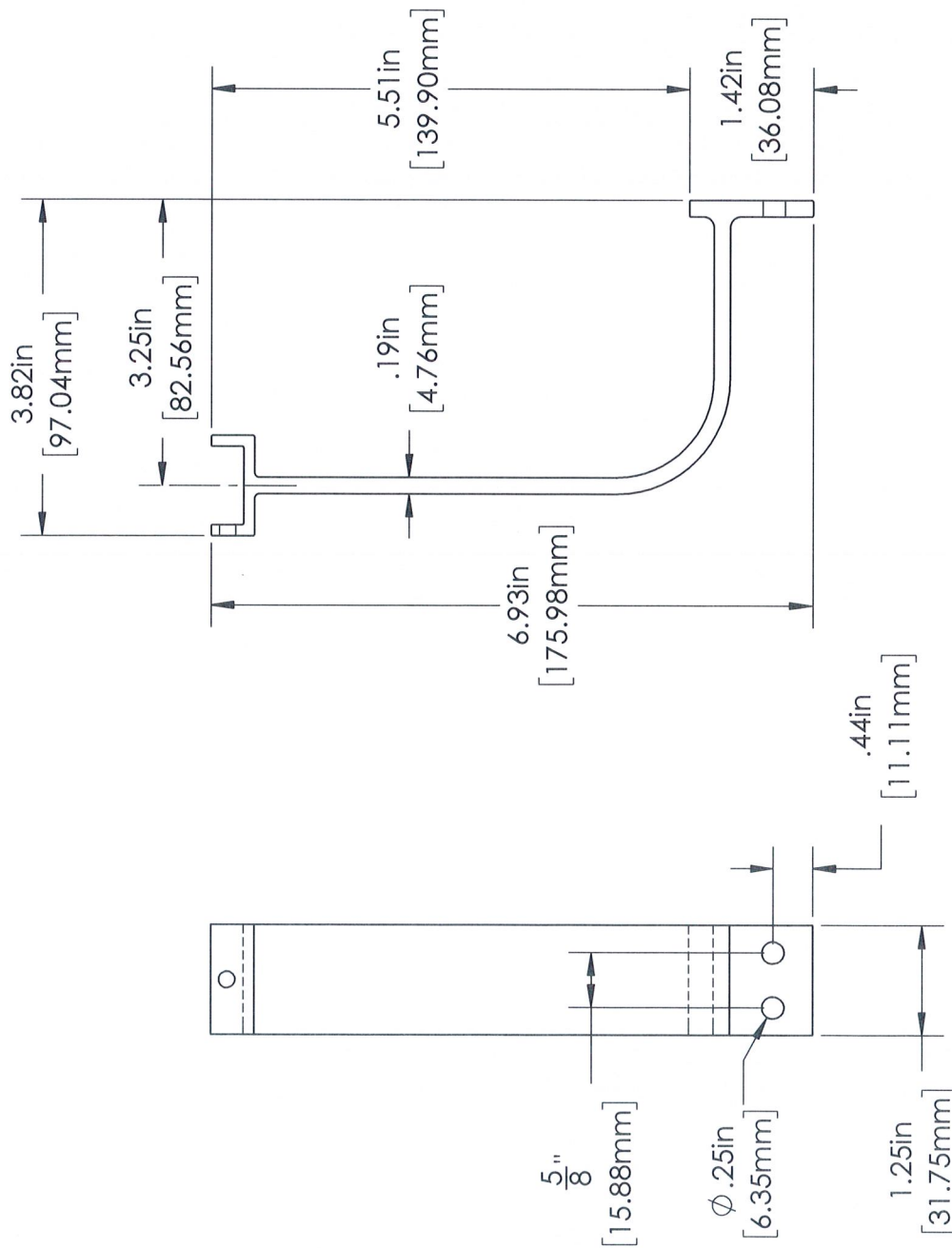
Part No.: D000514

Weight0.08 Lbs

Eng No. 0060PA

SHEET 1 OF 3

Rev4



intertek

Test sample complies with these details.
Deviations are noted.

Report #: 10633279500-001A

Date: 02/13/26 Tech: C.C.



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DESCRIPTION

Support Leg 2" Offset Fascia for 2-
1/2" 1-1/4"

DRAWN BY	Admin
CREATED	2017-12-22
MATERIAL	6063-T5
DIE NO.	

ALL DIMENSION IN INCHES/MM

REV.	DESCRIPTION	DATE	INITIALS
------	-------------	------	----------

REVISIONS

DATE

INITIALS

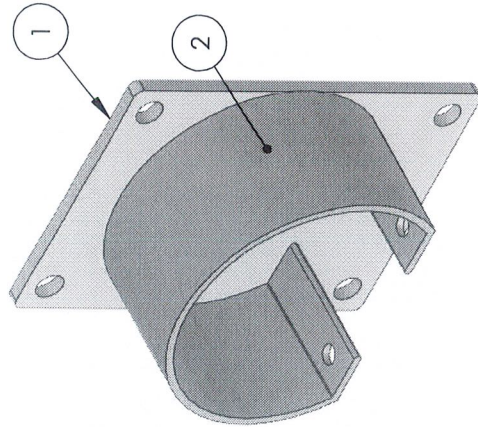
Part No. D000667

Weight 0.24 Lbs

Eng No. 0076PG

SHEET 1 OF 1

Rev -



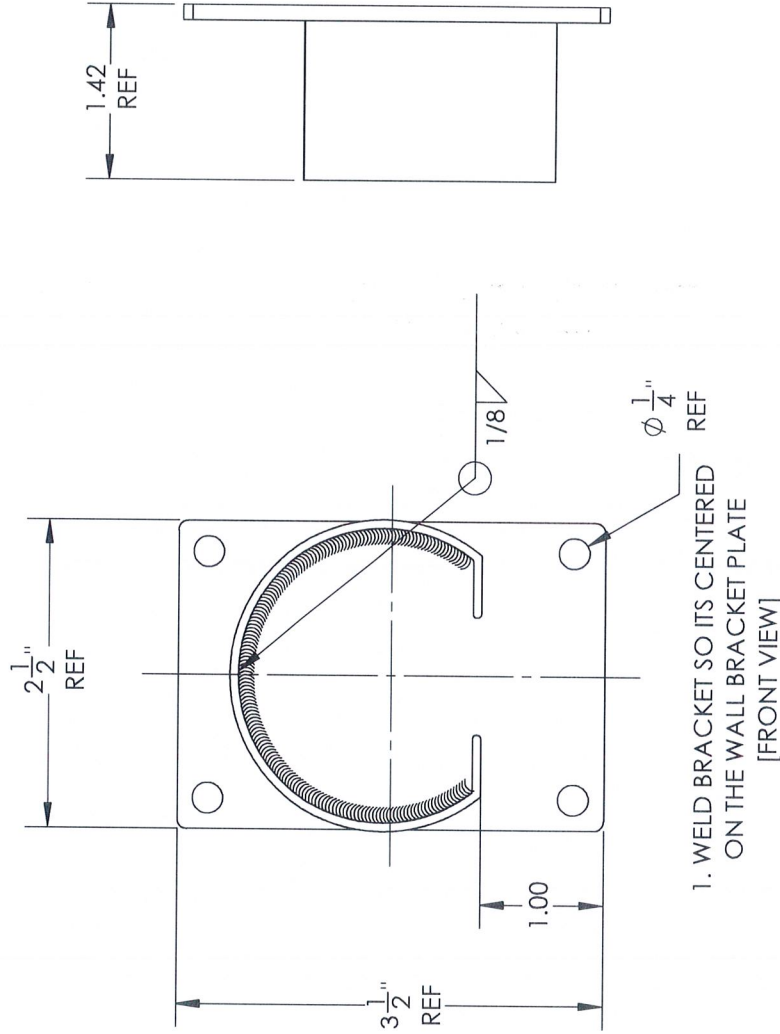
intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795-001A

Date: 02/13/24 Tech: C.C.

ITEM NO.	Eng No.	Part No.	DESCRIPTION	QTY.
1	0014PE		Plate Part 1/8" Uni/Rnd WB/90 WB	1
2	0012P		Sleeve Round 1-1/4"	1



CenDek
Railings Ltd.

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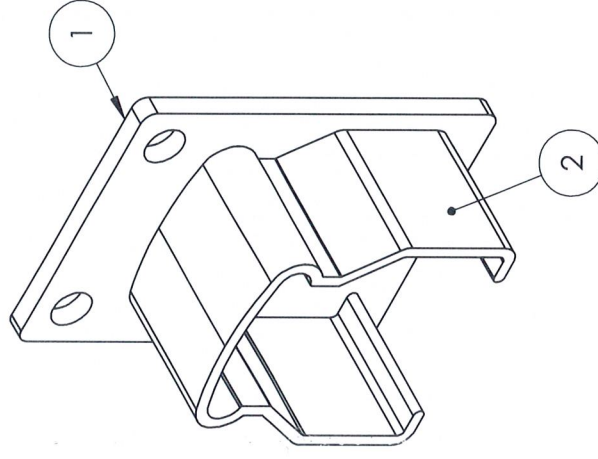
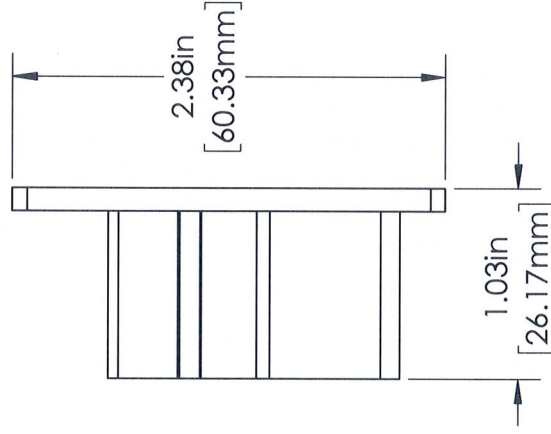
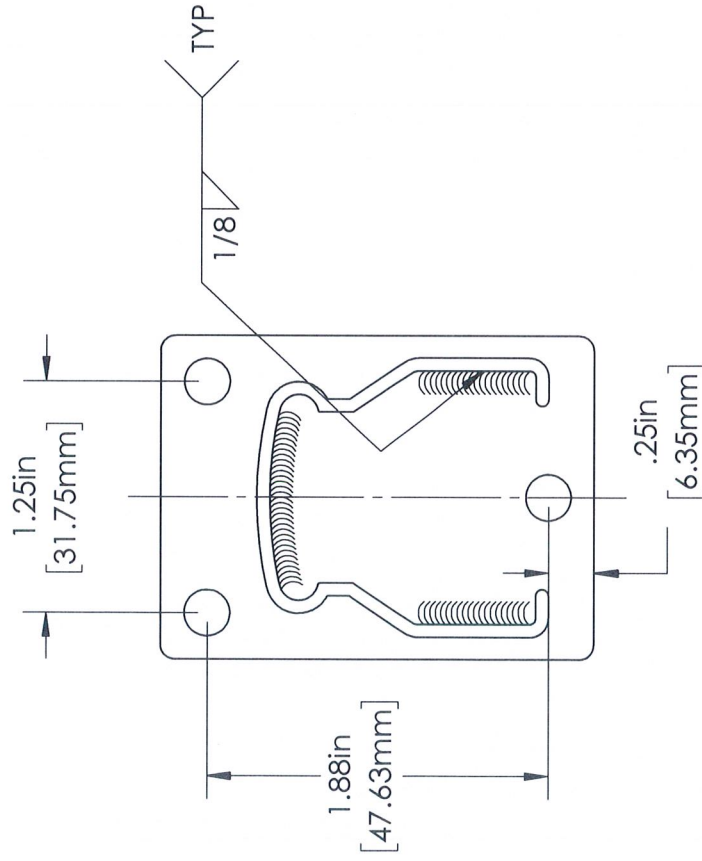
DRAWN BY	Admin
CREATED	2017-10-16
MATERIAL	
DIE NO.	

ALL DIMENSION IN INCHES/mm

DESCRIPTION
Wall Bracket Round

Part No. D000777	Eng No. 0032AA
Weight 0.16 Lbs	SHEET 1 OF 2
	Rev 1

ITEM NO.	Eng No.	Part No.	DESCRIPTION	QTY.
1	0014PC	1700-FLA-13005	Flat Bar Cut 1/8" x 1-3/4" x 3-1/2" BR WB Up/Down x3	1
2	0051PA	1600-SLE-10011	Bottom Rail Sleeve Welded Cut WB	1



intertek

Test sample complies with these details.
Deviations are noted.

Report #: 106332795002-001A

Date: 02/13/26 Tech: C. C.

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DRAWN BY Admin
CREATED 2017-10-11
MATERIAL
DIE NO.

ALL DIMENSION IN INCHES/MM

DESCRIPTION
Wall Bracket Bottom Rail

REV.	DESCRIPTION	DATE	INITIALS
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Part No. D000833
Weight 0.08 Lbs
Eng No. 0033A
SHEET 3 OF 3
Rev -

TEST REPORT FOR CENDEK RAILINGS LTD.

Report No.: 106332795COQ-001A

Date: 02/13/26

SECTION 12

REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	02/13/26	N/A	Original Report Issue