


AERO COMPONENTS INC.

Final Product Inspection Report

Work Order Information	
Work Order:	WO-2025-0334
Part Number:	AC-7821-B
Customer:	General Dynamics
Quantity Inspected:	50 units
Inspector:	Lisa Thompson
Date:	January 18, 2025






CRITICAL DIMENSIONS

Overall Length: 89.5mm ±0.05mm

Measured: 89.47mm  PASS



Hole Diameter: Ø12.00 +0.02/-0.00mm

Sample measurements (n=5):

Unit	Measurement (mm)	Result
Unit 1	12.008	 PASS
Unit 2	12.012	 PASS
Unit 3	12.015	 PASS
Unit 4	12.018	 PASS
Unit 5	12.011	 PASS

SURFACE FINISH INSPECTION

Specification: Ra 1.6 µm maximum

Measurement	Value
Average Ra	1.24 µm  PASS
Maximum Ra	1.52 µm  PASS

Measured locations: 5 points per part

ANODIZING INSPECTION

Parameter	Specification	Measured	Result
Color	Clear anodize per MIL-A-8625, Type II	Clear	✓ PASS
Thickness	0.0002" - 0.0008"	0.0005"	✓ PASS
Visual	No scratches, uniform coating	Uniform coating	✓ PASS

TORQUE VERIFICATION

Fastener torque: 25 Nm ±2 Nm

Sample check: 10 units

All measurements: 24-26 Nm ✓ PASS

FINAL DISPOSITION

✓ ACCEPT - All 50 units approved for shipment

DOCUMENTATION

- 📄 **Certificate of Compliance:** CC-2025-0147 generated
- 📄 Material certifications attached
- 💻 Dimensional inspection data uploaded to customer portal

PACKAGING

- ✓ Individual foam inserts - Complete
- ✓ Moisture barrier bags - Complete
- ✓ Customer labeling - Complete
- 📦 **Shipping containers:** 2 boxes of 25 units each

Inspector: L. Thompson

QA Supervisor: R. Martinez

Ship Date: January 19, 2025

Carrier: FedEx Ground

Tracking: 7749 5582 3841