

# Supplier Quality Requirements

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## 1. Revision history

| Issue | Rev | Date       | Description of change | Changed by |
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### 3. Purpose

This document defines the minimum quality requirement applicable to all suppliers providing products or services to Piran Composite Ltd. These requirements ensure compliance with AS9100, customer expectations, and aerospace industry best practices.

### 4. Scope

These requirements apply to all externally provided:

- Materials
- Components
- Tooling (including composite moulds)
- Processes and services

All suppliers shall comply with the requirements stated herein unless otherwise agreed in writing.

### 5. Quality Management System

Suppliers shall operate a Quality Management system compliant with AS9100, ISO 9001 or equivalent.

Certification may be required based on product criticality.

Suppliers shall maintain documented procedures for:

- Document control
- Inspection and testing
- Non-conformance control
- Corrective action

### 6. Flow-Down of Requirements

Suppliers shall flow down all applicable requirements to sub-tier suppliers, including:

- Drawings and specifications
- Quality Requirements
- Regulatory and statutory requirements

Suppliers remain responsible for the quality of sub-tier supplied products/services.

Suppliers shall ensure that all sub-tier suppliers:

- Comply with applicable requirements of this document
- Are approved where required by Piran Composites Ltd
- Are competent to perform the required work

The supplier retains full responsibility for conformity of all externally provided process, products and services.

## 7. Configuration Control

Suppliers shall ensure work is performed to the latest revision of:

- Drawings
- CAD Models
- Specifications

No changes are permitted to:

- Design
- Materials
- Process
- Sub-suppliers

Without prior written approval from Piran Composites Ltd.

## 8. Digital Data Control (CAD/Model Control)

Where digital product definitions (e.g. CAD models) are provided the supplier shall:

- Ensure use of the latest approved revision of digital data
- Verify data integrity upon receipt
- Control access and prevent unauthorised modification
- Ensure compatibility of systems used to interpret digital data

The supplier shall not alter, translate, or reinterpret digital data without prior written approval from Piran Composites Ltd.

Any discrepancies between CAD models and drawing shall be reported immediately for clarification.

## 9. Change Notification

Suppliers shall formally notify Piran Composites Ltd. and obtain approval prior to any changes including:

- Manufacturing process changes
- Material substitutions
- Facility or equipment changes
- Tooling modifications
- Chang of sub-tier supplier

## 10. Work Transfer/Business Continuity Control

The supplier shall notify Piran Composites Ltd in advance of any planned or unplanned:

- Transfer of work between facilities
- Relocation of manufacturing operations
- Significant changes in workforce, equipment, or capacity.

The supplier shall implement controls to ensure product conformity is maintained during and after such changes.

Piran Composites Ltd reserves the right to require revalidation, including First Article Inspection (FAIR), following any such change.

The supplier shall maintain a business continuity plan to mitigate risks associated with disruption to supply.

## 11. Risk Management

Suppliers shall apply risk-based thinking and:

- Identify risks to product conformity
- Implement appropriate mitigation controls
- Pay particular attention to:
  - Dimensional stability
  - Surface quality (critical for composite tooling)
  - Distortion during cure or machining

## 12. Special Process Control

Where applicable (e.g. composite lay-up, curing):

- Processes shall be:
  - Documented
  - Controlled
  - Repeatable
- Key parameters (e.g. temperature, cure cycle, pressure) shall be:

- Monitored
- Recorded
- Special processes may require approval or accreditation (e.g. NADCAP where specified).

## 13. Supplier Performance and KPI Monitoring

Piran Composites Ltd reserves the right to monitor supplier performance based on, but not limited to:

- Product conformity
- On-Time and In-Full delivery (OTIF)
- Responsiveness to corrective actions
- Non-conformance levels

Suppliers may be subject to performance reviews and may be required to implement improvement plans where performance falls below acceptable thresholds.

Failure to meet performance expectations may result in escalation actions, including increased inspection, audit activity, or removal for the Approved Supplier List.

## 14. Inspection and Verification

Suppliers shall ensure all delivered products meet specified requirements.

Requirements include:

- Verification against engineering drawing and CAD
- Use of appropriate inspection methods (e.g. CMM, laser scanning)
- Calibration of inspection equipment

Where required:

- First Article Inspection Report (FAIR) shall be performed in accordance with AS9102.

## 15. Key Characteristics

Where Key Characteristics or critical features are identified on drawings, specifications or via Purchase Order requirements the supplier shall:

- Identify and control these characteristics throughout manufacture and inspection
- Apply enhanced inspection methods (e.g. 100% inspection or validated statistical methods)
- Ensure appropriate capability is achieved and maintained for these features.
- Record and maintain inspection results for these characteristics.

- Notify Piran Composites Ltd immediately if capability or conformance cannot be achieved.

Where Key Characteristics are not explicitly identified, the supplier shall utilise risk-based thinking to determine features critical to fit, form, function, safety or performance.

## 16. Measurement System Capability (MSA)

The supplier shall ensure that all measurement and inspection equipment used to verify product conformity is:

- Suitable for the required measurement accuracy and tolerance.
- Calibrated and traceable to national or international standards
- Subject to Measure System Analysis where applicable

Where specified by Piran Composites Ltd or where high-risk features exist, the supplier shall demonstrate:

- Gauge repeatability and reproducibility (GR+R)
- Measurement uncertainty appropriate to tolerance requirements.

Records of calibration and MSA activities shall be maintained and made available on request.

## 17. Test and Inspection Records

Suppliers shall provide, as applicable:

- Dimensional inspection reports
- First Article Inspection Reports (FAIR)
- Process records (e.g. cure logs)
- Material certification

All records must be:

- Complete
- Traceable
- Retained per requirements (see Section )

## 18. Data & Record Format Requirements

All required documentation shall be provided in a clear and legible format and shall include:

- Reference to the Purchase Order number
- Part/tool identification and revision status
- Traceability to batch or serial number

- Identification of inspection method used

Electronic records shall be in commonly accessible formats unless otherwise agreed.

Incomplete or missing documentation may result in rejection or quarantine of delivered goods.

## 19. Material Control and Traceability

Materials shall conform to specified requirements and material certification shall be provided.

Suppliers shall maintain traceability:

- Raw material bath through to final product
- Applicable throughout all production stages

## 20. Counterfeit Parts Prevention

The supplier shall ensure that only authentic and conforming materials are used in products supplied to Piran Composites Ltd.

The supplier shall:

- Establish controls to prevent the use of counterfeit or suspect counterfeit parts.
- Verify sources of supply.
- Maintain traceability to original manufactures where applicable.

Any suspected or confirmed counterfeit material shall be reported immediately to Piran Composites Ltd. with full details of affected product.

## 21. Non-Conformance Control

Suppliers shall not deliver non-conforming product without approval.

In the event of non-conformance:

- Immediate notification to Piran Composites Ltd
- Submission of a Non-Conformance Report (NCR)
- Implementation of corrective action.

Disposition (use-as-is, repair, scrap) requires written approval.

## 22. Certificate of Conformance (CoC)

Each delivery shall include a Certificate of Conformance, stating:

- Compliance to applicable drawing(s) and specification(s)
- Part/tool identification and revision level
- Quantity supplied
- Authorised signature

## 23. Record Retention

Suppliers shall retain quality records for a minimum of 10 years (unless otherwise specified)

Records must be:

- Legible
- Retrievable
- Protected from damage or loss

## 24. Identification and Preservation

Suppliers shall ensure:

- Clear identification of product throughout manufacture
- Protection of product during:
  - Handling
  - Storage
  - Packaging
  - Transportation

Special attention shall be given to:

- Tooling surfaces
- Critical interfaces

## 25. Foreign Object Debris (FOD) Control

Suppliers shall implement controls to prevent Foreign Object Debris (FOD) contamination, including:

- Clean working environments
- Inspection prior to shipment

## 26. Packaging and Delivery

Suppliers shall:

- Package products to prevent damage or deterioration
- Protect critical features (e.g. mould surfaces)
- Use suitable transport methods

## 27. Right of Access

Piran Composites Ltd, its customers and regulatory authorities reserve the right of access to:

- Supplier Facilities
- Applicable records
- Sub-tier suppliers

For the purpose of:

- Audit
- Inspection
- Verification

## 28. Competence and Awareness

Suppliers shall ensure personnel are:

- Competent for assigned tasks
- Aware of:
  - Their contribution to product quality
  - Product safety
  - Importance of ethical behaviour

## 29. Product Safety and Ethical Behaviour

Suppliers shall:

- Ensure product safety throughout production
- Promote ethical behaviour and prevent counterfeit or fraudulent practices

## 30. Acceptance of Requirements

Acceptance of a Purchase Order from Piran Composites Ltd constitutes acceptance of these requirements.