

SUPPLIER QUALITY ASSURANCE REQUIREMENTS (GENERAL)

Fokker Aerostructures B.V.
Quality Procurement department

ANNEX B:
Supplier Quality Assurance Requirements
(general)

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Revision	Date	Changes
01	01 February 2010	New document, replacing all basic requirements on Fokker Aerostructures Purchase Orders
02	03 May 2010	Materials - Grain Direction - Grain direction will run the length of the part unless otherwise specified.
03	14 June 2010	Required documents – “Bought out” has been added to the overview of required documents
04	02 February 2011	Complete review of the document. FAI - interval between two deliveries of the same part changed to 24 months. Added link to website. Environmental Requirements – Added A350. Electronic Data – Has been amended.
05	16 May 2011	Name change “Exhibit” has changed to “Annex” Environmental requirements (7) has been amended Subcontracting (9) has been added to this document.
06	21 Jun 2011	Minor textual changes
07	06 Mar 2013	Changes in references to Appendices
08	23 Dec 2021	5.2 Added NoE 5.2 Changed FOD to Ch 5.5 Removed typos in header
09	03 Mar 2022	4.0 FAI improved

AUTORISATIE
AUTHORIZATION
Involvement
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Signature and approval date

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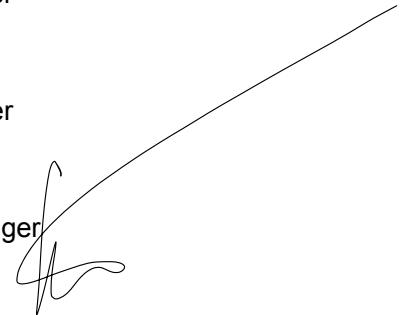
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A signed version of this document is available at the Quality department of Fokker Aerostructures.

	Document :AnnB-SQARen2010 Supplier Quality Assurance Requirements Standard
1	<p>Objective</p> <p>The objective of this Annex B is to provide generic information on Fokker's quality requirements.</p>
2	<p>Scope of agreement</p> <p>The Supplier shall at all time work in accordance with the latest issue of these Fokker Quality Requirements which are made available on the website of Fokker:</p> <p>http://www.fokker.com/Supplier-Q-requirements</p> <p>Additional program specific quality requirements as contained in Appendix I (former Exhibit B) to each Program Agreement may apply to each Program. For each Program, the contents of Appendix I (former Exhibit B) is in addition to or replacing one or more of the Fokker Quality Requirements as provided in this Annex B.</p> <p>The Fokker Quality Requirements of this Annex B and the contents of Appendix I (former exhibit B) of each Program Agreement, form an integral part of each Order that may be issued Fokker in the name of the Supplier.</p>
3	<p>Quality Requirements</p> <p>The Supplier's quality system must be aligned with the type of Goods supplied and the Supplier's status. Selecting the appropriate type of Goods and Supplier status in Table 1 provides the required level of certification for the Goods.</p>
3.1	<p>Required documents</p> <p>In case the Supplier is approved by the National Aviation Authority (NAA), the Supplier shall deliver the Goods with an Authorized Release Certificate / Airworthiness Approval Tag (i.e. FAA Form 8130-3 or EASA Form 1). Upon Fokker's request the Supplier shall provide satisfactory proof of Approval by the National Aviation Authority (NAA) as indicated above.</p> <p>Each Certificate of Conformity (COC) shall be based on objective evidence (a.o. measuring and / or test reports), demonstrating and stating full compliance with the requirements of the Contract. On Fokker's request, applicable objective evidence shall be available to Fokker within 48 hours after becoming available to the Supplier.</p> <p>The original COC must be packed and supplied together with the Goods and it shall always indicate the Supplier's name and the corresponding lot number.</p> <p>Depending on supplier status and Quality system certification, different types of certificates are required.</p>

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	AS / EN9100	ISO9001	AS / EN9120
Manufacturer Bought out and Standard parts	COC	COC	-----
Manufacturer Raw materials	COC + test report	COC + test report	-----
Subcontractor Machining	COC	COC	-----
Subcontractor Special processes	COC + test report	COC + test report	-----
Distributor Standard parts	COC + COC OEM*	COC + COC OEM*	COC
Distributor Raw materials	COC + COC OEM* + test report	COC + COC OEM* + test report	COC + Test report
Agent	COC + COC OEM*	COC + COC OEM*	-----
* Original Equipment Manufacturer			

Unless indicated otherwise for each Program Agreement, the Supplier shall provide all records, reports, specifications, drawings, designs, inspection and test results in the English language.

3.2 Quality Systems

Within 10 Days after its occurrence, the Supplier shall notify Fokker in writing of:

- (1) Any adverse change in its quality system resulting in loss of 3rd party registrar's certification status;
- (2) Any adverse action taken by the Supplier's customer, the Government, the Federal Aviation Agency (FAA), or the Civil Aviation Agency (CAA);
- (3) Any change in the Supplier's quality organization, process or procedures that affect conformity verification of the Goods or any part thereof. The Supplier shall also notify Fokker, in writing, at least 90 days in advance of any sale, relocation, or transfer of the Supplier's manufacturing operations.

The Supplier shall check, verify and control the correct implementation of any of his tasks, actions, processes and operations required to manufacture the Goods in conformity with the requirements of the Contract and shall assume the complete responsibility therefore. Fokker shall have the right to audit, verify and control the Supplier with regard to any quality aspect; however, this shall not reduce or limit any obligation or liability of Supplier. For this purpose, the Supplier shall take adequate measures to provide Fokker with access to all information and facilities where work under any Order is being performed.

Audit verification and control by Fokker shall not be used as evidence of effective quality control by the Supplier nor shall it preclude subsequent rejection.

3.3 Airworthiness- and National Quality Assurance Authorities (NQAA/NQAR)

The Supplier shall make arrangements that allow the National Quality Assurance Authorities (NQAA) and / or National Quality Assurance Representatives (NQAR) to make investigations, necessary to determine compliance of the Goods and processes with requirements of the Contract. The investigations may include; audits, enquiries, questions, discussions and explanations, monitoring, witnessing, inspections and checks.

The arrangements shall give positive assistance to the NQAA and / or NQAR. The Supplier shall cooperate in performing the investigation by giving full, free and unconditional access to the Supplier's information and facilities and the Supplier shall implement at its cost and forthwith any recommendations given by the NQAA and / or NQAR.

Supplier's failure to implement NQAA or NQAR recommendations within the agreed timescale, constitutes a material default which allows Fokker to terminate the Program Agreement and any Order pursuant to Section 19.2 (a) of the Long Term Agreement.

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3.4	<p>Quality record retention</p> <p>The Supplier shall retain Quality Assurance and Quality Control records, manufacturing data, drawings (engineering, tooling) and maintain a system with the ability to recall these records at Fokker's request.</p> <p>Additionally, distributors shall assure that its manufacturers maintain quality assurance / manufacturing / inspection records and that these records are also available at Fokker's request. Unless indicated otherwise for each Program Agreement, quality record retention period shall be ten (10) years following termination of the Program Agreement.</p> <p>Data considered essential for continuing airworthiness (Identifiable part) should be kept throughout the operational life of the Goods, parts or appliances.</p> <p>The Supplier's Quality Assurance and Quality Control records shall be available for evaluation by Fokker during the quality record retention period.</p> <p>Prior to disposal of any Quality Assurance and Quality Control records, Fokker must be notified and Fokker may choose to have such records transmitted to him at cost of the Supplier.</p>
3.5	<p>Digital Product Definition</p> <p>For each Program, the Supplier shall comply with the product definition requirements of Fokker and / or its Customer. If and to the extent required, the Supplier accepts the interchange of its product definition with Fokker and its Customer and to improve quality of the Goods and its underlying processes. Both Fokker and its Customer are entitled to review the Supplier's Digital Product Definition system and its configuration system.</p> <p>The Supplier and its sub tier(s) must document and implement their digital processes in accordance with the requirements defined in this Annex B.</p> <p>The Supplier and its sub tier(s) must ensure the unambiguous identification and integrity of all Digital Product Definition Data and Digital Production Documentation Data that is used in their organization(s), received from, or sent to their sub tier(s) for production and inspection.</p> <p>To ensure adequate control of Digital Product Definition Data and Digital Production Documentation Data the supplier may be periodically audited by Fokker's Quality Assurance Organization with respect to data processing and storage as defined in this Annex B or any other referenced requirement of the Contract.</p>

4	<p>First Article Inspection (FAI)</p> <p>The Supplier shall inform Fokker at least two weeks in advance, when the First Article Inspection takes place at source.</p> <p>The Supplier's First Article Inspection procedure shall comply with AS/EN 9102.</p> <p>In case Fokker decides not to attend the First Article Inspection, the Supplier shall submit the results of the First Article Inspection for Fokker's approval within one week after completion of the First Article Inspection. The Supplier is only authorized to commence serial production runs after receipt of Fokker's written unconditional approval.</p> <p>First Article Inspection, or the absence thereof, shall not reduce or exclude any obligation or liability of the Supplier pursuant to the requirements of the Contract including those specified in this Annex B and Appendix B (former exhibit B) of each Program Agreement.</p> <p>When the interval between two deliveries of the same Goods exceeds a period of 24 months or when the Specification of the Goods as enclosed in Appendix A to each Program Agreement has</p>
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	<p>changed, the Goods shall be deemed a “new part” and a renewed complete First Article Inspection must be held.</p> <p>Each Party to the Program Agreement bears its own costs in connection with First Article Inspection(s).</p> <p>After the completed FAI process, the Supplier shall share objective evidence for the next four deliveries.</p> <p>The Buyer Receiving Inspector and Buyer Supplier Quality Engineer can give the details but the most common guidelines are the rules for drawing parts.</p> <p>For drawing parts, the following information is needed:</p> <ul style="list-style-type: none"> - Verification of used materials and treatments (CoC's). - Measurement report of the supplier for the specific batch. <p>For more details see: GKN website Fokker FAI requirements</p>
5	<p>Configuration management and deviations management</p> <p>Deviations from the Supplier’s Quality Assurance Requirements are only allowed after written approval by Fokker’s Quality Procurement department.</p>
5.1	<p>Configuration management</p> <p>The Supplier must check (airworthiness) data such as drawings, specifications and other technical Information relevant to the Goods and its production processes, with the Order.</p> <p>This check shall be performed prior to commencement of the production and / or start of a process to identify differences between the actual configuration and the agreed configuration, including Identification of the product status with respect to monitoring and measurement requirements.</p> <p>Where no specific revision of (or deviation to) the Specification is mentioned on the Order, the Goods shall comply with the latest revision of the Specification as mentioned on the Order.</p>
5.2	<p>Deviations</p> <p>The Supplier shall inform Fokker forthwith in writing in all situations where the Goods or parts thereof have been released and where they were subsequently found to have deviations from the Specifications as enclosed in Appendix A to each Program Agreement.</p> <p>Any article released by a supplier or sub-tier supplier that is subsequently determined as to be (potentially) nonconforming shall be handled as an Escape. The notification of the Escape shall be reported to GKN in accordance with SAE AS9131.</p>
5.3	<p>Third party materials</p> <p>In case of nonconforming items, Seller’s dispositions are limited to scrapping the material, rework to drawing, or return to supplier. In all other cases, Seller shall submit nonconforming material reports to Buyer for disposition.</p> <p>Scrapped parts shall be returned to Buyer, labeled and separately packed from the rest of the goods.</p>
5.4	<p>Statistical Process Control</p> <p>At Fokker’s request the Supplier shall implement and maintain a documented system to measure and control key characteristics of its manufacturing process based on AS/EN9103 and ISO9004.</p>

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	Detailed requirements and definition of key characteristics for each Program may be appended in Appendix I (former Exhibit B) to each Program Agreement.
5.5	<p>FOD</p> <p>The Supplier shall maintain good housekeeping and demonstrate the presence of a Foreign Object Debris / Damage (FOD) prevention program, to preclude introduction of foreign objects into the Goods or any material or part thereof. The Supplier shall employ appropriate housekeeping practices to assure timely removal of residue / debris / scrap generated during its manufacturing operations or tasks. The Supplier shall determine if sensitive areas that have a high probability for introduction of foreign objects, should have special emphasis controls in place for the manufacturing environment.</p>
6	<p>Product characteristics</p> <p>If the Goods or parts thereof have a limited shelf life, the Supplier shall deliver the Goods in a new condition whilst indicating the date of manufacture and the expiry date.</p> <p>Unless agreed otherwise in writing, all Goods shall be unused and new at the moment of delivery.</p> <p>Notwithstanding anything else to the contrary, the warranty period as defined in Section 11 of the Long Term Agreement, starts after acceptance of the Goods by Fokker. Unless specified otherwise, grain direction will run the length of the part.</p>
7	<p>Environmental requirements</p> <p>Supplier shall implement an environmental management system to manage the environmental issues related to its activities. Where applicable, Supplier shall give necessary information for restricted substances as per REACH regulation.</p>
8	<p>ITAR/EAR</p> <p>“Export Controlled – License Required” refers to material and information which is controlled by either the International Traffic in Arms Regulations (ITAR) or the Export Administration Regulation (EAR) in the U.S. The “License Required” means that under the applicable regulation, the material/information must be licensed for it to be exported outside the U.S.</p>
9	<p>Subcontracting (only applicable in case of parts subcontracted by Fokker)</p> <p>The use of sub-tier suppliers is only allowed with Fokker’s written permission. Where applicable, Seller shall flow down to sub-tier suppliers all applicable requirements in Buyer’s purchasing documents, including required key characteristics.</p> <p>All information submitted by Fokker, like drawings, production orders shall be returned to Fokker with delivered goods. Where Fokker submitted material to Seller, the remaining material shall be returned to Fokker with goods to be delivered.</p>

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Table I:

Supplier type scope of supply	Required level of certification							
	Manufacturer	Sub contractor	Distributor	Calibration house	Repair station	Eng. Testing house	Eng. Design house	Agent
Standard parts (catalogue off the shelf)	ISO 9001	ISO 9001	EN9120	n.a.	n.a.	n.a.	n.a.	n.a.
Metal parts	EN9100 *(1), *(3)	EN9100 *(1), *(3)	n.a.	n.a.	EN9110	n.a.	EN9100	n.a.
Composite parts	EN9100 *(1), *(3)	EN9100 *(1), *(3)	n.a.	n.a.	EN9110	n.a.	EN9100	n.a.
Outsourced parts (BUW)	n.a.	ISO 9001	n.a.	n.a.	EN9110	n.a.	EN9100	n.a.
Special processes	Nadcap *(2)	Nadcap *(2)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Assembly	EN9100 *(1), *(3)	EN9100 *(1), *(3)	n.a.	n.a.	part 145	n.a.	EN9100	n.a.
Raw material	ISO 9001	n.a.	EN9120	n.a.	n.a.	n.a.	n.a.	n.a.
Auxiliary goods	ISO 9001	ISO 9001	EN9120	n.a.	n.a.	n.a.	n.a.	n.a.
Calibration	n.a.	n.a.	n.a.	ISO-17025: 2005	n.a.	n.a.	n.a.	n.a.
Testing	n.a.	n.a.	n.a.	n.a.	n.a.	ISO-10012-1	n.a.	n.a.
Engineering	n.a.	EN9100	n.a.	n.a.	n.a.	n.a.	EN9100	n.a.
Tooling	ISO 9001	n.a.	n.a.	n.a.	ISO 9001	n.a.	EN9100	n.a.
NPR	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

*(1) In case of military programs and required by the customer AQAP 2110 (110) or AQAP 2120 (120) is applicable.

*(2) In case of customer or Fokker specific special processes resp. customer or Fokker qualification is required.

*(3) In case of Special Products programs without customer requirements a minimum level of ISO 9001 is required.