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# **SUPPLIER MANUAL**

Edition 19

17.11.2017

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#### 2 INTRODUCTION

This document defines requirements for a supplier to be qualified to supply Fideltronik. Documents describes also specific requirements for particular group of components:

- Catalogue components (electronic, chemical and mechanical)
- Printed Circuit Boards
- Magnetic components
- Looms
- Electro-mechanical and mechanical components

#### **GENERAL REQUIREMENTS**

#### 3 SUPPLIER SELECTION AND QUALIFICATION PROCESS

#### **Definition**

#### New supplier

A new supplier is a company that has never conducted business with Fideltronik or a former supplier who has not supplied product to FT in the last three years. All new suppliers must be qualified before new business is awarded.

#### New Supplier Qualification Process

Process of adding a new supplier to the Fideltronik Approved Supplier List based on the analysis of supplier's ability to perform according to the Fideltronik requirements included in the Supplier Manual.

#### Supplier Vetting

#### 1. General requirements

**General Fideltronik requirements** are included in the **Supplier Manual** which is available on Fideltronik website: <a href="http://www.fideltronik.com.pl/en/isupplier-portal,138.htm">http://www.fideltronik.com.pl/en/isupplier-portal,138.htm</a>

Supplier shall confirm its ability to comply with those requirements by completing and returning the **Supplier Questionnaire** (Eng. FDMS-23-2133) to Fideltronik via email: <a href="mailto:new.supplier@fideltronik.com">new.supplier@fideltronik.com</a> or submitting it online.

The Mandatory part of the Supplier Questionnaire to be filled out is the "Supplier Profile" section. Any omissions or gaps in the section mentioned above will result in the rejection of the application.

**Confidentiality** - Fideltronik considers operations with suppliers as confidential and they are covered by professional secrecy.

Supplier shall confirm its ability to comply with the statements of the Non-Disclosure Agreement(NDA) by signing and returning it to Fideltronik via email <a href="mailto:new.supplier@fideltronik.com">new.supplier@fideltronik.com</a> and posting it to



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Fideltronik's HQ address. A NDA document is available to downloaded from the Fideltronik website: http://www.fideltronik.com.pl/en/isupplier-portal,138.htm

#### 2. Data collection and analysis

Correct validation of submitted NDA and Supplier Questionnaire

Supplier Profile Analysis aimed at verifying its ability to fulfill Fideltronik's needs as well as its incorporation into Company's supply base development strategy.

3. Adding Supplier to the "Identified Supplier List"

If the Supplier meets Fideltronik requirements and suit our Company's supply base development strategy, they can be added to the "Identified Supplier List".

#### **Supplier Qualification**

#### 1. Needs analysis

Depending on the needs deriving from new business opportunities as well as the Company's supply base development strategy, a list of suppliers to be considered in the subsequent steps of the process is created.

#### 2. Supplier's capability analysis

Review of submitted quotes and other information received from vendors. At this stage the Total Cost of Ownership is taken into consideration for all quotes provided.

Analysis of the Supplier's ability to meet Fideltronik's requirements and comparison of the collected information. Based on the results of the conducted analysis the decision on proceeding to further steps of the qualification process is made.

#### 3.1 Request for Supplier Self-Assessment

Supplier shall complete and return to Fideltronik the self-assessment section of the Supplier Questionnaire: Eng. FDMS-23-2133, ("Std Check List" sheet) - available for download from the Fideltronik website: <a href="http://www.fideltronik.com.pl/en/isupplier-portal,138.htm">http://www.fideltronik.com.pl/en/isupplier-portal,138.htm</a>

#### 3. Supplier Audit

If required, a supplier audit is conducted by the Supplier Quality Engineer based on the criteria included in the Supplier Questionnaire (Eng. FDMS-23-2133).

#### 4. Adding a new supplier to the Approved Vendor List

In cases where the result of a conducted qualification process is positive, based on the individual buyer's decision, Supplier is added to the Approved Vendor List.

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#### **Freight Transportation Carrier Selection Criteria**

The transport coordinator chooses a shipping company on the basis of the following criteria:

Demanded criterion	Additional criterion	
Required by law, permits and concessions within the scope of the transport.	ISO-9001	
Insuring the carrier with national and international traffic.	Positive results of current cooperation.	
Trucks with a container (metal/tarpaulin).	Trucks with the means for transport with regard to capacity.	
price competitiveness, flexibility with regard to cooperation and the communicativeness of the staff.	The general technical condition of cars including the safety of transported goods and environmental pollutions (subjective evaluation).	

### 4 ADVANCED PRODUCT QUALITY PLANNING (APQP)

APQP – this is a defined process for product development. According to the AIAG (Automotive Industry Action Group), the purpose of APQP is "to produce a product quality plan which supports development of a product or service satisfying the customer." The process is described in the AIAG manual 810-358-3003.

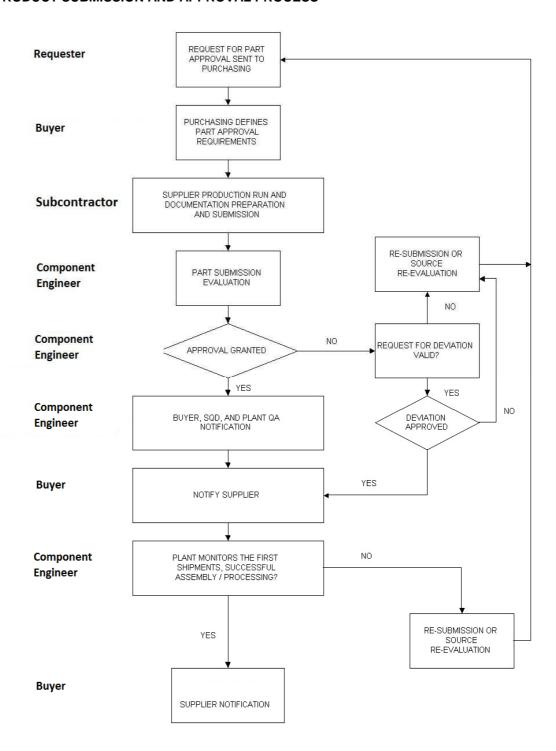
In other words this is a process for establishing, meeting, and exceeding quality objectives. Supplier APQP teams must include a cross functional team consisting of members from every area/department in the organization as well as the appropriate subcontractor and Fideltronik personnel. APQP is required for the following scenarios:

- During the development of new processes and or products
- Prior to significant changes to process and/or products as determined by Quality Department
- Prior to tooling being transferred to new producers or facilities.



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#### PURCHASED PRODUCT SUBMISSION AND APPROVAL PROCESS





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#### 4.1 PRODUCTION PART APPROVAL PROCESS (PPAP)

Based on AIAG PPAP Fourth Edition

PPAP is used to establish confidence in suppliers and their processes, by demonstrating that:

- Customer design record and specifications and other requirements are properly understood by the supplier.
- Process proposed by the supplier has the potential to produce a product consistently meeting these requirements with defied production rate.

#### When is PPAP required?

Full approval from the Customer regarding product approval must be obtained by the Supplier for:

- A new part or product (i.e., a specific part, material, or color not previously supplied to the specific Customer).
- Correction of a discrepancy on a previously submitted part.
- Product modified by an engineering change to design records, specifications, or material.
- Any situations required by the Customer.

#### The 5 Submission Levels

The items and/or records specified by the level requested by the customer must be submitted by the supplier:

Level 1 – Warrant only (and for designated appearance items, an Appearance Approval Report) submitted to the Customer.

Level 2 - Warrant with product samples and limited supporting data submitted to the Customer.

# Level 3 - Warrant with product samples and complete supporting data submitted to the Customer.

Level 4 - Warrant and other requirements as defined by the Customer.

Level 5 - Warrant with product samples and complete supporting data available for review at the supplier's manufacturing location.

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#### **Retention Requirement Table / Submission Level**

Requirement	Level 1	Level 2	Level 3	Level 4	Level 5
Part Submission Warrant	R	R	R	AR	R
2. Design records	-	R	R	AR	R
3. Approved Engineering Change	-	-	R	AR	AR
Documentation					
Customer Engineering approvals	-	-	R	-	-
5. Design FMEA	-	-	AR	AR	AR
6. Process Flow Diagrams	-	-	R	AR	R
7. Process FMEA	-	-	R	AR	R
8. Control Plan	-	R	R	AR	R
9. Measurement System Analysis Studies	-	AR	R	AR	R
10. Dimensional Results	-	R	R	AR	R
11. Material, Performance, Test Results	-	AR	R	AR	R
12. Initial Process Study (Cpk) Capability Studies	-	AR	R	AR	R
13. Accredited Laboratory Documentation	-	-	R	AR	R
14. Appearance Approval Report (AAR), if applicable	AR	AR	AR	AR	AR
15. Sample Product	-	R	R	AR	R
16. Master Sample	-	-	R	-	R
17. Checking Aids	-	-	R	AR	R

#### R - Required for PPAP submission

AR – Documents on a case by case basis are marked AR for "As Requested"

Additionally together with appropriate PPAP documentation specified by Fideltronik it is required to send the packing instruction.

Any section that is not applicable must be included in the PPAP submission with a placeholder showing that this section is not applicable. This is to ensure no sections have been missed. Fideltronik will review the supplier PPAP submission using the PPAP submission checklist with any deficiencies being sent back to the supplier for resubmission.

If a Supplier cannot meet the PPAP requirements by the required date the Prototype and Interim approval form will be required outlining the issues with new promise dates.

#### Note:

In the case of the requirement to provide samples (see point 15 of PPAP) they should be specifically identified on the outside of the package e.g. "ENGINEERING SAMPLES".

#### 4.1.1 Specific Customer Requirements.

In the case of Specific Customer Requirements or when the client determines alternative qualification criteria other than the ones stated below the Supplier is obligated to present data (reports, research results) which confirms fulfillment of the new requirements to Fideltronik upon request.

<sup>&#</sup>x27; - ' - Not Required



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#### 5 VERIFICATION OF PURCHASED PRODUCTS

Fideltronik shall carry out internal inspection of purchased goods on the basis of own procedures and reserves itself the right to control quality and process controls at the suppliers.

Fideltronik's internal inspection and any control at supplier's does not remove supplier's responsibility for compliance of supplied products with the requirements set forth in the technical documentation, this Supplier Manual and the order.

#### 6 CLAIMS

In the case when the products delivered by supplier do not comply with Fideltronik requirements, technical documentation, norms, standards or do not meet requirements of this Supplier's Manual or requirements of our Customers, Fideltronik shall place a complaint in the following stages:

- Written notification to supplier with a copy to Fideltronik respective departments.
  - for each non-conformance a Fideltronik reference number (NZG-XXXXX) is assigned which shall be held in ongoing correspondence
- Confirmation by the supplier of immediate actions. Possible options are:
  - return to supplier at his expense and replacement with a compliant product
  - 100% inspection and return of the faulty part (from the shipment) and correction of the invoice
  - conditional permit and repair with cost estimation
- Completion of the protocol of discrepancies in the case of faulty products which are returned to supplier

The supplier shall confirm within 48-hrs (in urgent issues 24-hrs) receipt of the claim notification, provide the RMA number (if necessary) and set the immediate necessary actions (3D) to protect its Customer (e.g. replacement of goods, sorting activities to secure deliveries, etc.).

Additionally, **within 10 days** the supplier shall confirm the claim and pick up the rejected goods (if not agreed otherwise). Lack of supplier confirmation within 10 days will be considered by Fideltronik as an acknowledgment of the claim - in this case Fideltronik reserves the right to utilise the defective goods at the supplier's expense and issuing an invoice or debit note for the equivalent value.

Completed 8D should be provided to Fideltronik within **30 days** from the date of the claim notification. For specific Fideltronik Customers (e.g automotive industry) or with any issues, 8D completion time may be shorter. Supplier will be informed in advance about those exceptions.

For each part number claimed to supplier, Fideltronik shall charge a penalty (general claim management cost) amounting to **EUR 100** or its equivalent according to the National Bank of Poland exchange rate on the invoicing day + actual cost of claim.

In case when supplier is not able to protect the continuity of Fideltronik production e.g. by providing replacement batch, repair or segregation affected parts within a specified (by Fideltronik) time, Fideltronik is obligated to charge the supplier for the cost of any additional actions (if they are possible) performed by Fideltronik (to protect Customer needs e.g., sorting, repair etc.) using the following calculation rates (unless another Fideltronik document specifies otherwise):



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Hourly rate of production worker in case of easy to identify and check problem (e.g., sorting):

Applies to production facilities in Poland	Applies to production facilities in Sweden	
20 EUR	50 EUR	

 Hourly rate in case when extra tooling, qualification and/or approval of the component by Product or Quality Engineer is needed (e.g. sorting, rework):

Applies to production facilities in Poland	Applies to production facilities in Sweden
40 EUR	70 EUR

The supplier may be charged with cost of complete product (production in progress) in case when delivered by the supplier components have hidden failures that cannot be reworked or have caused permanent damages to other parts.

#### 6.1 SPECIALIZED LEVELS OF SUPPLY CONTROL

Concern the suppliers supplying the products to automotive projects.

Fideltronik reserves the right to present suppliers with a Controlled Shipping level: CSL I or CSL II.

When Fideltronik presents a supplier with a status be that CSLI or CSL II, the supplier will be informed with a special information letter. Once such a letter is obtained the supplier is obliged to put into action a specialized supply control process which is compliant with the principles below:

**CSL I**: requires 100% control in the suppliers manufacturing plant on a separate post (not recognized by the standard control process). This inspection process is imposed to ensure that Fideltronik is protected from receiving non-compliant parts. A supplier who attains control level CSLI is also required to inform Fideltronik of the result of the inspection that took place up until the aforementioned CSL I is lifted.

**CSL II:** requires 100% control, which is to be carried out by a third party. Fideltronik decides on the third party aswell as the place where the inspection takes place. Financial responsibility for the inspection lies with the supplier.

At the moment when the supplier or third party finds nonconformances the special status prolongs by a previously agreed period.

Lifting of the CSL status on the supplier is done by Fideltronik with a special information letter. This in turn means that all specialized control processes, applicable for the assigned CSL level can be lifted.

#### Supplier responsibility:

- Acknowledging receipt of notification and thereupon taking immediate action.
- In the case of control level II:
  - Sending orders to units fulfilling the inspection.
  - Presenting the appropriate documents and equipment required to do a correct inspection
- Continuing the control activity until it is lifted by Fideltronik.
- Ensuring proper identification of the item carrying the special control status during final inspection.



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- Determining the root cause and implementing irreversible corrective actions.
- Communicating an action plan and its status to Fideltronik in an agreed format and within specific iterations.

#### 7 RATING AND DEVELOPMENT OF SUPPLIER

#### 7.1 SUPPLIER RATING SYSTEM

In order to achieve complete customer satisfaction as well as to deliver best in class quality and highest level of service Fideltronik set up measurable quality objectives helping us to monitor and continuously improve our supplier's performance.

Our expectations towards suppliers are not different from those of our Customers. We focus on Suppliers who are committed to develop in the areas such as optimal performance in product quality, on-time delivery and cost as well as implementing continuous improvement in order to help encourage mutual growth.

#### **Definition**

The assessment of suppliers is conducted quarterly based on Key Performance Indicators. Suppliers are categorized for evaluation on the basis of their quarterly turnover (90 %).

For a chosen group of Suppliers, evaluation is carried out each month. Suppliers assigned to such a group can be indicated by the Customer or can be associated with the appropriate project where this requirement is obligatory.

#### **Indicators**

Required information for the Supplier evaluation is gathered in Fideltronik computer system. Suppliers are evaluated according to the following indicators:

#### 1. QUALITY PERFORMANCE

Information gathered by the Fideltronik computer system. Scoring criteria:

- **PPM Level** / Level of delivery defectiveness – The PPM index is calculated using the equation below:

$$PPM = \frac{N_w}{N_d} \bullet 1000000$$

where:

Nw - Quantity of defective components during a given time

Nd - Quantity of items delivered in that given time

#### **IMPORTANT:**

Suppliers are committed to deliver parts free from defects as ultimate PPM's target is 0.

#### - Customer disruptions

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Concerns the reported non-conformance with high or critical priority reported from the client, along with the returns from the market.

Critical Priority: Nonconformances related to security issues and/or market returns
High Priority: Nonconformances influencing product specification or main fit and function features,
concerning serial problems with high risk of market returns.

#### - Production disruptions

Applies to non-conformance with high or critical priority (as above) noted during entry inspection or production

#### - 8D response time

Number of 8D reports not provided within the 30 day term.

#### - Reoccurrence

Number of repeated problems in a given time period according with the below time period and criteria.

Time period: 1 year

Reoccurrence criteria: supplier, part number, NCR code

- Environmental, Health and Safety incidents (Incidents that affect /carry risk to the environment and / or the Occupational Health and Safety of employees)

#### 2. LOT ACCEPTANCE RATE

Information collected by Fideltronik computer system.

Nonconformance caused by failing to meet Fideltronik's requirements related to logistics, which prevents the acceptance of goods on the system or delays admission of parts to the warehouse For example:

- Delivery of not ordered goods,
- Not registered dispatch confirmation (ASN, ASBN),
- Lack of customs import documents of imported goods,

#### 3. DELIVERY PERFORMANCE

Information gathered by the Fideltronik computer system . Scoring Criteria:

#### - On time delivery

Measurement is made with respect to the promise date confirmed by the Supplier (ang. Pro-mise Date). Delivery is deemed to be supplied on time when the goods are delivered to the client's warehouse: 5 days in advance, 0 days later.

#### - Incidents of premium freight

Number of registered premium freight transports due to fault of the Supplier.

Premium freight transports are connected with extra costs or charges incurred additional to contracted delivery. This can be caused by method, quantity, unscheduled or late deliveries, etc.

#### 4. FULLFILLED REQUISITIONS AGING

Information collected by Fideltronik computer system.

Indicator determines the number of days between issuing purchase order to goods arriving and admission into Fideltronik warehouse

#### 5. ROLLING PO PRICE SAVING RATE

Information collected by Fideltronik computer system.

The system compares the average purchase price in the current quarter/month with the average price from the previous year.

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#### 6. ELECTRONIC INVOICES

Information collected by Fideltronik computer system. Indicator determines percent of invoices registered in the customers computer system through I-supplier portal or EDI.

#### **SCOPE OF SCORING**

QUALITY PERFORMANCE			
Score definition	Target		
PPM level	20p		

LOT ACCEPTANCE RATE				
Score definiti	on			Target
2% 6% 0 points		10 points 5 points ≤ 2% 6%		10p



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ROLLING PO PRICE SAVINGS RATE			
Score definition	Target		
4.5% < 25 points 3.5% < 20 points ≤ 4,5% 2.5% < 15 points ≤ 3.5% 1.5% < 10 points ≤ 2.5% 0.5% < 5 points ≤ 1.5% 0 points ≤ 0.5	25p		

ON TIME DELIVERY			
Score definition	Target		
On time delivery:  96% < 12 pts  93% < 8 pts ≤ 96%  90% < 4 pts ≤ 93%  0 ptk ≤ 90%  Incidents of premium freight:  No Incident (3pts)  Noted Incident (0pts)	15p		

FULFILLED REQUISITIONS AGING				
Score definition Target				
15 points ≤ 14 days 14 days < 10 points ≤ 28 days 28 days < 5 points ≤ 56 days 0 points ≤ 56 days	15p			



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ELECTRONIC INVOICES	
Score definition	Target
98% < 15 points 95% < 10 points ≤ 98% 90% < 5 points ≤ 95% 0 points ≤ 90%	15p

Analysis of all suppliers is made according to the form, statuses are given according to the scoring from the following table.

SCORE	SCORE DEFINITION	STATUS
71pkt – 100pkt	The supplier meets Fideltronik requirements on a satisfying level. cooperation can be continued and further developed. Possible precautions can be undertaken to continuously improve cooperation.	PREFERRED
41pkt – 70pkt	The supplier meets Fideltronik's requirements with some defaults. There is potential to improve. Fideltronik reserves the right to require corrective and/or preventive measures in certain cases to which the supplier will be informed.	ACCEPTED
0pkt – 40pkt	The supplier does not meet Fideltronik's requirements. Critical non-conformances which occur should be immediately eliminated. The supplier should, in cooperation with Fideltronik, immediately define corrective actions and carry them out in an acceptable time (TEMPORARY ACCEPTED). In case of the absence of co-operation from the supplier side the Commodity Buyer takes action aimed at eliminating the supplier (TO BE ELIMINATED).	TEMPORARY ACCEPTED and TO BE ELIMINATED



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#### SUPERVISION OF APPROVED SUPPLIER LIST

The list is updated by the Commodity Buyer, and looked through comprehensively once per guarter after the quarterly assessment of strategic vendors.

#### 7.2 QUALITY AUDIT

During cooperation with approved suppliers or during the process of new supplier qualification Fideltronik can demand to conduct a quality audit at the supplier.

Audit is usually conducted on the basis of the audit questionnaire previously sent and filled out by the supplier. A compliance with the customer's requirements, with right norms, standards and procedures is tested.

With an audit result, there is a report in which observations, remarks and areas for improvement are included. After the audit the supplier is obliged to take corrective actions according to plan described in point 7.3.

#### 7.3 CORRECTIVE AND PREVENTIVE ACTIONS

#### **Definition**

Corrective and preventive actions are taken by suppliers to contribute towards the improvement of the organization as well as to prove constant process-improvement. Actions appropriately addressed shall influence reduction in the number of gaps or complaints, increase productivity, increase sales volume, reduce operating costs, etc.

#### **Claims**

In case of defects detected in delivered products, irrespective of the claim procedure, Fideltronik Quality Department requires presentment of the corrective action plan in the 8D form.

Specific information concerning the claim process and terms of corrective action implementation are included in point 5.

#### Corrective actions supervisory

Fideltronik Quality Department can require presentation of evidence of corrective and preventive actions and perform their verification during the audit visit.

The received 8D report and the evidence provided is put in Fideltronik's database under the given nonconformance standing as ground for its closing. Effectiveness of taken actions is verified on the basis of inspection result of the next received delivery.

#### Supplier evaluation

Evaluation is sent to suppliers quarterly and depending on the granted status the supplier is obligated to present a corrective action plan. In order to facilitate it, the required form is attached to the result of the evaluation and sent to the supplier. The Supplier should fill in the 'proposals of corrective actions' box stating the dates of their implementation and thereafter return this form to Fideltronik within 15 working days from the receipt date.

#### Supervision of taken corrective actions

A filled-out corrective and preventive actions form is verified and supervised by the Commodity Buyer and Quality Engineer and put in the Fideltronik database.



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#### **Supplier Audit**

After the audit a report is sent to the supplier with marked improvement areas. The supplier is obliged to describe the corrective actions within 15 working days from receiving the report. Fideltronik can require evidence from taken actions and conduct a verifying audit.

When a supplier does not take corrective and preventive actions - this means that he does not state the willingness to improve and also develop their processes - the Commodity Buyer can take steps to remove this supplier from the Approved Supplier List.

In the case of suppliers which are to be removed the Commodity Buyer responsible undertakes actions aimed at terminating purchasing at this supplier and for consequent blocking in the system , in order to prevent buying components from this source.

#### 8 PROCESS DOCUMENTATION AND SUPERVISING CHANGES

#### 8.1 GENERAL REQUIREMENTS

The supplier is obliged to have a documented manufacturing process. Fideltronik recommends usage of the following documents:

- FLOW-CHART
- CONTROL PLAN

Above documents should be available upon Fideltronik request.

The Control Plan can be based on recommendations from the APQP referential textbook (Advanced Product Quality Planning) published by AIAG. Fideltronik Quality Department can provide example forms on the supplier's request.

The supplier is obliged to inform Fideltronik in advance about planned changes in following areas:

- > technological process
- applied materials
- manufacturing sites (specifically applied, but not limited to PCB manufacturers),
- process flow chart

Technological changes should be reflected in such documents as the Flow Chart and Control Plan which should be sent immediately to Fideltronik (PPAP package – described in point 4).

Fideltronik reserves a right to refuse proposed changes or request to provide additional data or/and samples supporting this change.

A supplier is obliged to give the date when a change in the technological process was implemented and any changes to the purchase order of the delivery should be mentioned within. It is aimed at the identification of supplier changes and their influence on the quality of the product.



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#### 8.2 SPC AND SPECIAL CHARACTERISTICS

#### **Definition**

SPC -Statistical Process Control – statistical method of quality management which enable the objective assessment whether the given process is stable or start to behave out of standard.

The supplier is obliged to guarantee the necessary training of appropriate staff on his own and the measurement equipment at his plant with respect to SPC (Statistical Process Control).

Determining specific requirements, for supervising the process and reporting quality results by the supplier to Fideltronik, for chosen products should be held in the way shown below.

#### Cpk measurements of special and critical characteristics

The supplier is obliged to perform measurements of special and critical parameters in every delivery to Fideltronik shown in the technical documentation and/or specification.

Results of measurements are to be noted. Enumerated Cpk values for above parameters must meet the condition:

#### Cpk ≥ 1.67

It is acceptable that Cpk ≥ 1.33 but supplier should carry on actions ,to be documented, to achieve the target 1.67 value.

#### Measuring document

The supplier is obliged to make Cpk measurements of special and critical characteristics on his own for every batch.

The document confirming the compliance with specific requirements of the customer should contain:

- measurement results
- measurement method
- material used

The supplier is obliged to archive this document of the minimum of 5 years and to make it available at the customer's request.

#### 9 SUSTAINABILITY

#### 9.1 ENVIRONMENTAL PROTECTION

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#### 9.1.1 GENERAL REQUIREMENTS

In compliance with the environmental policy available on www.fideltronik.com/ems.html the Supplier, when delivering products and services, shall be obliged to follow the principles below:

#### Reduce the amount of Styrofoam in wrappings

Styrofoam is very difficult to recycle and has a notably more harmful environmental impact (as waste) than other wrappings (wood, cardboard or metals).

Fideltronik recommends to reduce as much as possible the use of Styrofoam in wrappings and to replace it with materials with lower environmental impact (cardboard, steel, wood) or use returnable wrappings.

#### Use of returnable wrappings

Fideltronik recommends, where possible, use of returnable wrappings in order to reduce environmental impact of wrapping materials and cut the unnecessary cost (liquidation of collective wrappings).

#### According to the environmental Fideltronik policy, suppliers are obliged to meet the following requirements:

- Everywhere where it is required, deliver the Material Safety Data Sheet of dangerous substances
- The supplier is fully responsible for the receipt upheld by law in the treatment, storage, return and utilization of dangerous materials in his plant which is necessary to produce and provide products
- Suppliers performing services in Fideltronik premises are obliged to segregate waste according to applicable rules.

During the supplier qualification process Fideltronik takes environmental aspects into consideration. The supplier is obliged to offer environment-friendly raw materials, including design, material selection, manufacturing processes and delivery in accordance with LCA (Life Cycle Analysis).

#### Additional information:

Ordinance of the Minister of Economy and Labour dated 27 Mar. 2007 on specific requirements concerning use of environment unfriendly substances in electronic and electrical devices (Journal of Laws 2007 No. 69 item 457).

#### **MATERIAL DECLARATIONS**

Fideltronik, according to the environmental policy and taking customer requirements into account, can require from suppliers – also where the RoHS directive and the REACH regulation don't apply - the Material Declarations including chosen chemical elements are applied. Fideltronik can require also filling material declarations in the form imposed by oneself.

Declarations should contain a detailed description of the measuring methods and results of measurements and be updated at least once a year.

#### 9.1.2 COMPLIANCE WITH ROHS DIRECTIVE

In relation to the Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment with amendment 2015/863/EU, on request Fideltronik require from the Supplier a declaration of compliance of the supplied components with the requirements of the RoHS directive, RoHS tests result or Full Material declaration.

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Declaration should involve all materials from which the product is manufactured as well as the materials used in the manufacturing process (including operating materials).

Moreover if it is possible the supplier should mark on the packaging (in every delivery to FT) that the product is RoHS compliant.

#### 9.1.3 COMPLIANCE WITH REACH

According to requirements of the Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Fideltronik as the downstream user require:

- Conformity of supplied components/materials with REACH (including the Candidate List of SVHC, Annex XIV and Annex XVII).
   If the supplied component/material contains a substance from the SVHC Candidate list (the list available at <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a>) above 0.1% weight by weight in the product, supplier is required to inform immediately Fideltronik and provide name of the substance and its % contents in the supplied component/material.
- Conformity from all suppliers of the supplied Material Safety Data Sheet (MSDS) with the Article.
   31 of the REACH Regulation.

The records relate, among the others to:

- An obligation of delivering and informing customers about the Material Safety Data Sheet updates. The actualization includes also the obligation to adjust the MSDS in accordance with the requirements of the Regulation.

Basing on above in case of any amendment to the Material Safety Data Sheet or the delivered product the supplier is obliged to announce this to Fideltronik with immediate effect and immediately provide a new Material Safety Data Sheet.

- Material Safety Data Sheet should be written in the official language of the State in which the substance or mixture is placed on the market, in our case, in Polish.
- Fideltronik Group requires from its suppliers to providing Material Safety Data Sheet, also for substances that do not meet the criteria for classification as hazardous.

All substances and other mixtures should be classified and labelled according to the Regulation (EC) No 1272/2008 (CLP) from 1 June 2015 and corresponding MSDSs complying either with the Annex to Regulation (EU) 2015/830 or, if the transitional provision applies, with Annex I or II to Regulation (EU) No 453/2010 must be provided when they are supplied until 1 June 2017.

After 1 June 2017 only MSDS in accordance with the Annex to Regulation (EU) 2015/830 will be allowed for both substances and mixtures.

Manufacturer / Supplier who fail to comply with the information above are, in accordance with the relevant legislation, subjected the penalty of a fine.



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#### 9.1.4 CONFLICT MINERALS

As a manufacturer of electronic and mechanical assemblies (EMS), we are aware of our obligations under laws and regulations relating to Conflict Minerals, specifically the Dodd-Frank Wall Street Reform and Consumer Protection Act, Section 1502 requiring all US stock listed companies and their Suppliers to disclose the chain of custody usage of Tin, Tantalum, Tungsten and Gold (3TG Minerals).

On request of our Customers we are working with our direct Suppliers within our supply chain to determine the origin of the 3TG materials and to collect information about their compliance with the regulations. Fideltronik uses the OECD Guidance and the EICC-GeSI reporting template to document its compliance efforts.

Fideltronik requires that its Suppliers:

- 1. Commit to being/ becoming 'Conflict-free' meaning that such Suppliers source materials only from conflict-free smelters (even if those sources do come from the DRC or adjoining countries). Suppliers are also responsible for passing the same requirements on to their supply chain.
- 2. Have a system or methods in place to ensure that parts supplied to Fideltronik are "Conflict-free".
- 3. On request, provide to Fideltronik completed declarations (using the EICC-GeSI reporting template) evidencing such commitment and documenting the countries of origin from which the Supplier directly or indirectly sources 3TG Minerals.

#### 9.1.5 SPECIFIC CUSTOMER REQUIREMENTS

Apart from requirements included in above points the supplier is obliged at Fideltronik request to provide data (reports, findings) confirming the fulfilment of the customer requirements.

#### 9.2 CODE OF CONDUCT

Fideltronik will consider cooperating only with suppliers which act ethically, respect Human rights and conform to the following rules:

#### Discrimination

All employees shall be treated rightfully regardless of their job responsibilities and business position. Similar rules apply to relations with people outside the company. The employees shall not discriminate others on the basis of their age, gender, race, nationality, religion, disability, origin, marital status; offend coworkers or other people verbally, physically or in any other way; sexual harassment or mobbing shall not take place; an employee shall not spread hearsay or false information about coworkers or other people.

#### **Openness and communication**

Supplier promotes proper communication amongst employees and contractors based on openness and respect. Every employee should report his or her remarks to the supervisor. The company places great emphasis on honesty, not only towards coworkers but clients, suppliers and itself.

#### Remuneration

Payment is distributed in accordance with labor law provisions.



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#### Children and young workers

Supplier does not employ children or support the use of child labor. That excludes initiatives such as government approved youth training schemes (e.g. work-experience programs).

The minimum age of employment shall be 16 years of age. The company does not use employees under 18 years of age for hazardous work.

#### Competition and antitrust law

Supplier supports the quality and price competition. The Company is committed to conducting business in an open and honest manner. Complying with antitrust norms and regulations on fair competition requires that employees abide to the following rules:

- a) do not accept, disclose or use competitive information in breach of a confidentiality agreement between a third party and competitors
- b) do not accept any competitive agreements to fix prices, share the market, etc.
- c) do not abet clients to obtain products or services that do not meeting their needs
- d) provide client with detailed and solid information on quality, functions and availability of offered products

#### **Corruption and Bribery**

Company's achievements, reliability and quality of products and services constitutes a base for business relations. Both workers and contractors are not allowed to affect a decision-making person by unlawful financing, ravishment or doing favors with the intention of influencing a third party to obtain or retain business or a business advantage, or to reward the provision or retention of business or a business advantage, or in explicit or implicit exchange for favors or benefits.

Company employees are obliged not to offer any bribes either financial, material or any other in order to gain any commercial, contractual, regulatory or personal advantage, especially given in secret. Gifts should not be offered to, or accepted from, government officials or representatives, contractors or their relatives when they aim at "facilitation" or expenditure of a routine procedure; with the expectation or hope that a business advantage will be received, or to reward a business advantage already given.

#### **Donations and grants**

Financial grants may only be awarded to the party officially permitted to generate surplus revenues (like charitable or non-profit organizations), and the support may be provided in compliance under law in force. Moreover, donations should be officially accepted by the granted institution and fully documented together with an allocation affirmation. Such funds may under no circumstances be transferred to private accounts.

#### Conflicts of interest

Conflicts of interest can be defined as any situation in which inconsistency between the interests of a person arises in connection with the performance of his or her duties. Such competing interests can make it difficult for a person to fulfill his or her duties impartially. It can be also defined as any situation in which an individual, corporation or their relatives are in a position to exploit a professional or official capacity in some way for their personal or corporate benefit. Our suppliers do their best to fulfill their duties reliably and not to harm the goodwill of a company. They avoid situations that can lead to a conflict of interest

#### Confidentiality and data protection

Supplier adheres to data protection principles. Its employee are responsible for protection of entrusted data.

#### Probity towards people outside the company

All people outside the company, e.g. clients, suppliers, competitors shall be treated in a respectful and proper manner. One shall restrain from using unreal, misleading or offending expressions towards the third parties. Supplier treats business partners in a rightful way, and puts quality of their products and services as a base for business relations.



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#### Health and safety

Supplier places great emphasis on ensuring proper working conditions and health and safety for all employees. The company takes necessary steps aimed at identification and prevention of potential occupational hazards, including constant assessment and improvement of working area to reduce risk.

#### **Environment**

Supplier is actively involved in environmental protection and sustainable development of reduction of negative environmental impact reduction in its locations. It shall perform regulatory compliance both related to operating in countries and its internal procedures and rules.

#### Third party rights

The Supplier when manufacturing components for Fideltronik must not infringe the rights of third parties (e.g., work on illegal software, stolen equipment or technologies).

The provisions of Code of Conduct are presented to every supplier. Fideltronik expects proper business communication and cooperation free from intentions and actions aimed at corruption and bribery. In case of infringement of the code of conduct rules, Fideltronik has a right to execute liabilities from suppliers. The method and scope of sanction depends upon the degree of code violation, as well as legal obligations.

#### 9.3 HEALTH AND SAFETY OF WORK

In compliance with the Work Safety Policy available on Fideltronik web site: <a href="http://www.fideltronik.com/en/operational-health-and-safety">http://www.fideltronik.com/en/operational-health-and-safety,165.htm</a> Supplier shall be obliged to provide information on compliance with health and safety regulations in its factories.

# 10 SHIPPING OF GOODS AND INVOICES – general requirements, responsibilities

#### Receipt of goods

Independent of delivery terms, the supplier of the transport service is obliged to check the quality and correctness of goods in the place of loading.

Every nonconformance noticed by the hauler should be documented and communicated to the transport service contractor.

In the case of goods being noticed as damaged or wrongly protected for delivery, the forwarder is obliged to report his doubts and remarks to the contracting service. At departure time the responsibility for possible damage is taken over by the carrier.

#### Shipping conditions and compliance with documents

The supplier is obliged to forward to the hauler goods which meet the following requirements:

- 1. the quantity of packets handed over is the same as the amount shown in the bill of lading
- 2. description on packaging conforms with details on the bill of lading

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- 3. goods are imposed a customs duty concerns imported materials
- 4. packages are original and not damaged (there are no signs of flooding or opening)

The carrier has the right to verify above points before leaving the place of loading.

#### Damaging of goods during transport

If, while checking the condition of the parcel, some visible and outside damage is noticed, with no protocol written down at a place of loading, the carrier takes the responsibility for damaging the parcel.

In the place of unloading a damage protocol should be written down, this is a base for claims to the supplier of the transport service.

Damage during transport resulting from wrong packing of material (where there is no visible outside damage of multipacks or components) is not subject to the transport company complaint. In this case the side responsible for the way it was packed bear the responsibility.

#### Special requirements concerning transport

In case of chemicals - where Material Safety Data Sheet describe specific conditions of storage - and other products determined by Fideltronik, the hauler is required to monitor the temperature and humidity conditions during transport, documenting them and making them available at Fideltronik request. Goods cannot be picked up from the carrier if the special requirements were not fulfilled.

# Additional, suppliers of materials are obliged to follow the principles as below:

- wherever it is required to provide a Material Safety Data Sheet
- during transport and unloading of dangerous materials the supplier has to have knowledge of how to pack them, how they act on human organisms and how to proceed when wrap is broken.
- to use transport methods suitable for the carriage of substances according to their specification.
- hazardous materials must be clearly marked and must have labels in polish as well
- the weight of a single package should not be more than 25 kg
- the maximum weight of a palette with commodity is 800 kg, maximum height 170 cm

#### Suppliers of services to Fideltronik are obliged to:

- perform Health and Safety, fire protection and potential risks training courses. These training courses are carried out by FT staff.
- follow the instructions of security personnel employed by Fideltronik
- comply with instruction FDMS-23-2454 concerning residing and driving on Fideltronik premises
- Moving around the premises in areas in accordance with the service provided
- -informing about accidents
- using protective/working clothing that is in line with service provided
- using functioning technical equipment
- fulfill national electrical safety certification requirements (e.g SEP)- ensure that modes of transport are in good technical condition



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- assure proper storage of items
- properly mark (Idenitification and properties) of chemical substances used
- follow general health and safety regulations
- comply with rules relating to the transfer of cargo with regards to manual handling
- inform Fideltronik about the premium freight (extra costs or charges incurred additional to contracted delivery)

#### Sending Invoices

Invoices for supplied materials or services must be sent to Fideltronik in the following way:

- Electronic method through EDI, RosettaNet or
- · Electronic method through ISupplier or
- Normal mail or courier to the address of the specific branch reception in accordance with the following principles:
- Fideltronik Scandinavia

Address:

FIDELTRONIK SKANIYNAVIA AB ÖSTERGÅRDSGATAN 19 PO BOX 207 SE-524-23 HERRLJUNGA SWEDEN

VATIN: SE556937172601

Fideltronik Poland (Branches: Sucha Beskidzka, Kraków (Cracow), Gdańsk), Fitech, Fideltronik S.A.

Address:

FIDELTRONIK POLAND SP.Z.O.O. BENIOWSKIEGO 1 34-240 SUCHA BESKIDZKA POLAND

VATIN: PL5521298418

#### 11 PACKAGING

#### General rules of packing

- 1. The size of the package must be adapted for the contents of the shipment in order to minimize free spaces inside the package.
- 2. The strength of the package should be adapted to the weight and the shape of the contents. There shall not be irregular carton shapes, only family size and to supplement vacancies with the filler.
- 3. Damaged boxes are banned from being packed in.
- 4. The elements intended for the dispatch should be clean greases and liquids should be removed from them.
- 5. If not specified otherwise one should use partitions, dividers and fillings. Bubble wrap and/or polystyrene with appropriate shapes should be used at the bottom, on the top and all over sides .
- 6. The parcel should be described with relevant warning stickers (e.g. attention glass)
- 7. Putting collective labels is necessary.
- 8. Documents must always be outside the packaging in order to be available without opening cartons.
- 9. Packing components from the MSD family should be safe and adapted to the conditions prevailing in the planned transport (Road, Air, Sea) while maintaining all norms and standards.



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 Packing components from the ESDS should be in accordance with the requirements of "IEC 61340-5-1/2/3" and "ANSI/ESD S541"

#### Pallets, transport specification and requirements:

- 1. Usage of only certified EURO EPAL palettes.
- 2. Usage of only non-damaged pallets.
- 3. Permanently fasten parcels to the palette using stretching foil and/or tape.
- 4. Elements of the package do not stick out beyond the palette. If some part of the untypical consignment sticks out beyond the edges of the palette it must be ruthlessly wrapped up not to damage itself and/or other parcels.
- 5. Lighter elements (e.g. cartons) should be put on heavy elements
- 6. the center of gravity must be localized in parcels and the height of the parcel must be agreed with the transport service.
- 7. If it's possible secure all angles of the parcel with cardboard corners.
- 8. Arrangement of elements on a pallet must be adapted to transporting on transit routes of standard EURO EPAL. 2. pallet width.

The sender is responsible for the quality of wrapping up of the parcel making sure it is adequate for the content.

The sender is obliged adequately to wrap up the parcel, as well as giving it to the courier in a state enabling its correct transport and assuring that it won't damage other parcels during transport, as well as providing it without loss and damage.

Particularly the package should: be appropriately closed, preventing unauthorized persons the access to the contents of the parcel; be appropriately tough in accordance to the weight and contents; have internal safety barriers preventing the movement of content; have markings attesting to special character of the parcel, such as: ", attention, glass", ", top/bottom"

#### 11.1 REQUIREMENTS CONCERNING THE IDENTIFICATION ON PACKAGES

The preferred label by Fideltronik is the 2D version as per the below example.

Detailed specification of such label "2D labels specification" is attached as the separate document on Fideltronik website: http://www.fideltronik.com/en/isupplier-portal,138.htm

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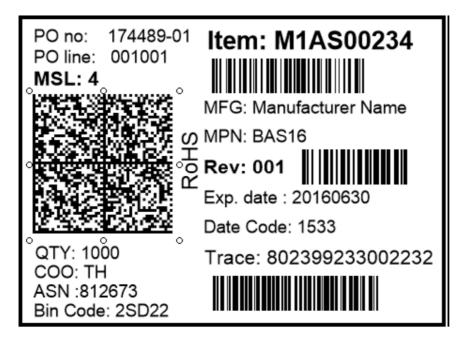
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Sample of correct 2D label / Proposed dimensions: 6cm x 4,5 cm



#### Information content

"ASN " - Advance Shipment Notice number

"QTY" - Quantity in package

"PO no." - Customer Purchase Order number

"PO line" - Purchase Order line number (containing line and shipment number)

"COO" - Country of Origin – according to Norm ISO 3166-2

"Date Code" - Year and week of manufacturing - format YYWW

"Exp. Date" - Item expiration date - format YYYYMMDD

"Item" - Customer item (barcode Code128 below the text)

"Rev." - Revision code item (barcode 128 in line with the text)

"Trace" - Unique item traceability number.

In Fideltronik we need unique numbers for each package. Unique trace number should be in the following format:

#### 1T8XXXYYUUUUUUUUU

1T – Separator code for trace
8XXX – Unique number for supplier
YY – Year for trace number
UUUUUUUUU – Unique supplier trace number in year

It is possible to use second type format:

#### 1T8XXXUUUUUUUUUU

1T – Separator code for trace 8XXX – Unique number for supplie UUUUUUUUU – Unique supplier trace number In case when unique supplier trace number has less than 9 or 11 digit then please fill up with followed 0

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"Bin Code" - LED parts only

"MFG"8 - Supplier Manufacturer name. During label implementation need to be defined mapping between supplier and Fideltronik. Fideltronik will create mapping in system to map supplier code to Fideltronik

"MPN" - Manufacturer Part Number

"MSL" - Moisture Sensitivity Level.

"RoHS" - ROHS compliance confirmation

"Quantity"

# If a Supplier has no possibility to print 2D labels then we also accept labels in accordance with the below guidelines:

- 1. Single-product wrappings must hold:
- Fideltronik Order Number (with the release & line number)
- Fideltronik Item Number (barcode Code-128 + text below the barcode)
- Fideltronik Item Revision (barcode Code-128 + text below the barcode)
- Fideltronik Item Description
- Manufacturer Name with identification of production plant (if there is more than one)
- Manufacturer Part Number MPN (barcode Code-128 + text below the barcode)
- Reference Number of Manufacturer date code (YYWW) (bar + label) and lot code (bar + label)
- Quantity in a single package (barcode Code-128 + text below the barcode)

#### Moreover, if it is possible:

Confirmation of RoHS and/or REACH compliance

#### 2. Collective wrappings must hold:

- ASN Number (barcode Code-128 + text below the barcode)
  - or:
- Fideltronik Order Number (with the release & line number)
- Fideltronik Item Number (barcode Code-128 + text below the barcode)
- Fideltronik Item Revision (barcode Code-128 + text below the barcode)
- Fideltronik Item Description
- Manufacturer Name with identification of production plant (if there is more than one)
- Manufacturer Part Number MPN (barcode Code-128 + text below the barcode)
- Reference Number of Manufacturer date code (YYWW) (bar + label) and lot code (bar + label)
- Quantity in collective package (barcode Code-128 + text below the barcode)

#### Moreover, if it is possible:

- Confirmation of RoHS and/or REACH compliance

Additionally Supplier shall put information regarding the weight of single and collective wrapping. Such information shall be placed visibly for a controller

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#### Samples of correct labels / Proposed dimensions: 70mm X 50mm

1. Single-product wrappings



2. Collective wrapping





#### REQUIREMENTS IN RELATION TO PARTICULAR GROUPS OF COMPONENTS

#### 12 CATALOGUE COMPONENTS

(electronic, chemical and mechanical)

#### Person responsible for product / service quality

The supplier shall be obliged to appoint a person responsible for quality of the supplied products and services. Such person should:

- have the necessary authorisations to be able to represent the supplier during quality talks with Fideltronik
- provide necessary support and aid in solving quality problems

#### Certificate of compliance

Fideltronik can require a certificate of compliance to the first shipment and to every consecutive shipment if it was specified in technical specification (point CoC=Yes).

In case of such requirement Certificate of Compliance shell be send in electronic version to the following e-mail:

<u>coc@fideltronik.com</u> – location in Cracow<u>coc.sucha@fideltronik.com</u> – location in Sucha Beskidzka

For other Fideltronik locations paper format applies.

Certificate of compliance should contain at least the following information:

- Manufacturer Name
- Full manufacturing symbol (PART NUMBER)
- Production Date of the elements supplied, e.g., in the form WW/YY (week/year)
- ♦ Manufacturer's request number (LOT / BATCH)
- ◆ Fideltronik Item Number
- Fideltronik Order Number and quantity on the Order
- Quantity supplied
- Confirmation that the delivery meets Fideltronik's requirements
- Any discrepancies from FT requirements only approved by FT

#### Specific requirements

- Due to special requirements of Fideltronik customers, the supplier shall place the manufacturer's LOT / BATCH number on the compliance certificate.
- ◆ The supplier shall see to it that the Manufacturer and the Symbol of the provided elements are in compliance with the order.
- If, due to market climate, provision of an element of the specified manufacturer is not possible, Fideltronik shall be notified about it right after the receipt of an order. The supplier shall specify the proposed replacement, and Fideltronik shall give on that basis written (e-mail, fax) approval of delivery of such elements.
- Date of production of electronic elements shall be below two (2) years
- Date of production of PCB boards shall be below 6 months

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- Validity period of the chemical materials shall be atleast 6 months from the date of delivery. In the case of materials for which the manufacturer specifies a shorter validity period than 6 months. The validity period for use cannot be shorter than 75% of the manufacturer's specified range.
- If the production dates of the a/m elements exceed the time acceptable to Fideltronik the supplier shall obtain from FT written consent for sale of such elements.
- Components in Ball Grid Array (BGA) packages are to be delivered to Fideltronik in the <u>original manufacturer's packing (trays/reels)</u>, without any repacking performed by the supplier.



#### 13 PRINTED CIRCUIT BOARDS

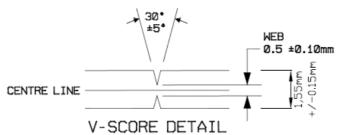
#### **Quality management system**

The supplier is required to have a quality management system implemented and maintained based on ISO 9001 or ISO-TS 16949 or at least the following procedures of ISO 9001:

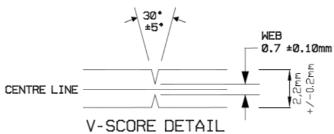
- Document control
- Records control
- Control of non-conforming product
- Identification and traceability in the production process
- Corrective actions

#### Specific requirements

- 1. Fideltronik does not accept panels with X-out.
- 2. Solder mask thickness: 10um < SM < 40um measured in the middle of copper field min 2x2mm or track with width min 0,3mm, in the potentially thickest point
- 3. Fideltronik does not accept double applied solder masks. Double application of solder mask requires Fideltronik approval.
- 4. Requirements for V-cut process (unless GBR specifies otherwise):



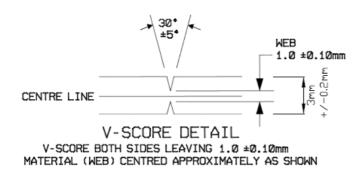
V-SCORE BOTH SIDES LEAVING 0.5 ±0.10mm MATERIAL (WEB) CENTRED APPROXIMATELY AS SHOWN



V-SCORE BOTH SIDES LEAVING 0.70 ± 0.10MM MATERIAL (WEB) CENTRED APPROXIMATELY AS SHOWN

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In case when Fideltronik Customer requirements are different than Fideltronik, supplier shall apply the more restrictive and aim to meet both customer/Fideltronik requirements.

#### Important:

Any modifications by the supplier in Gerber files or any other Customer documentation in any way, shape or form is not allowed without Fideltronik' approval.

#### Person responsible for quality of products / services

The supplier shall be obliged to appoint a person responsible for the quality of the supplied products and services. Such person should:

- have the necessary authorisations to be able to represent the supplier during quality talks with Fideltronik, e.g., Quality Representative or Quality Manager.
- provide necessary support and supervise corrective activities and other operations connected with development of the quality management system.

#### Tests / product inspection carried out by the Supplier

The supplier shall be obliged to carry out necessary tests and visual inspection in order to ascertain compliance with the requirements included in the product specification.

The supplier shall additionally (if the specification does not explicitly quote other quality standards):

carry out electrical tests

Note: results of tests will be filed by the Supplier and made available to Fideltronik on request.

♦ carry on inspection of products for compliance with industrial standard IPC-A-600 (the latest revision and minimum Class II).

#### Certificate of compliance

Fideltronik requires a certificate of compliance to the first shipment.

Fideltronik can require also a certificate of complience to every consecutive shipment if it was specified in technical specification (point CoC=Yes).

It is required to send the certificates in electronic version to the following e-mail:

<u>coc@fideltronik.com</u> – location in Cracow
<u>coc.sucha@fideltronik.com</u> – location in Sucha Beskidzka

For other Fideltronik locations paper format applies.

Certificate of compliance should contain at least the following information:

♦ Fideltronik Item Number

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- ◆ Fideltronik Order Number and quantity of the Order
- Quantity supplied
- Information about materials used (manufacturer, symbols, etc.)
- Confirmation that the products passed all the required tests and measurements at the Supplier's
- Date of production of the elements supplied, e.g., in the form WW/YY (week/year) shall be below 6
  months
- Any derogation from FT requirements only with the consent of FT
- In the case of products requiring the UL symbol, the following symbols must be shown on the certificate:
- ◆ UL RECOGNITION and the E-FILE number

#### Compliance with the UL symbol

In the case of printed boards that require the UL symbol (as specified in Fideltronik's technical documentation), the supplier shall be obliged to confirm compliance with UL in the certificate and place the necessary information on the description board.

The following information is required:

- ♦ the UL RECOGNITION symbol
- ♦ the DESIGNATION type
- the class of combustibility (e.g. UL 94-V0)
- ♦ manufacturer's logo
- date of production





#### 14 MAGNETIC COMPONENTS

#### **Quality management system**

The supplier is required to have and maintain a quality management system based on ISO 9001 or ISO-TS 16949 or at least the following procedures of ISO 9001:

- documentation supervision
- records supervision
- supervision of faulty products
- identification and traceability in the production process
- corrective actions

#### Person responsible for quality of products / services

The supplier shall be obliged to appoint a person responsible for the quality of the supplied products and services. Such person should:

- have necessary authorisations to be able to represent the supplier during quality talks with Fideltronik, e.g., Quality Representative or Quality Manager
- provide necessary support and supervise corrective activities and other operations connected with development of the quality management system.

#### Tests carried out by the Supplier

Fideltronik requires that the supplier carries out electrical and insulation tests (in 100% of the supplied batch) in order to ascertain that the product parameters are kept.

Note: results of the tests will be filed by the Supplier and made available to Fideltronik on request.

#### Certificate of compliance

Fideltronik requires a certificate of compliance to the first shipment.

Fideltronik can require also a certificate of complience to every consecutive shipment if it was specified in technical specification (point CoC=Yes).

It is required to send the certificates in electronic version to the following e-mail:

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<u>coc.sucha@fideltronik.com</u> – location in Sucha Beskidzka

For other Fideltronik locations paper format applies.

Certificate of compliance should contain at least the following information:

- Fideltronik Item Number
- Fideltronik Order Number and quantity on the Order
- Quantity supplied
- Information about materials used (manufacturer, symbol, etc.)
- Confirmation that the products passed all the required tests and measurements at the Supplier's
- Date of production, e.g., in the form WW/YY (week/year)
- Any discrepancies from FT requirements only approved by FT
- In the case of products requiring the UL symbol, the following symbols must also be shown on the certificate:
- UL RECOGNITION and the E-FILE number
- ♦ Magnetic requirements with the UL symbol

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#### Compliance with the UL symbol

For magnetic levels requiring the UL symbol (specified in Fideltronik's technical documentation), the supplier shall be obliged to confirm compliance with the UL in the certificate and include some necessary information on the description board (the UL symbol, etc.).



#### 15 LOOMS

#### **Quality management system**

The supplier is required to have and maintain a quality management system based on ISO 9001 or ISO-TS 16949 or at least the following procedures:

- documentation supervision
- records supervision
- supervision of faulty products
- identification and traceability in the production process
- corrective actions

#### Person responsible for quality of products / services

The supplier shall be obliged to appoint a person responsible for the quality of the supplied products and services. Such person should:

- have the necessary authorisations to be able to represent the supplier during quality talks with Fideltronik, e.g., Quality Representative or Quality Manager.
- provide necessary support and supervise corrective activities and other operations connected with development of the quality management system.

#### Tests, measurements and criteria for product's visual inspection

The supplier shall be obliged to carry out necessary tests and visual inspection in order to ascertain compliance with the requirements included in the product specification.

The supplier shall additionally (if the specification does not explicitly quote other quality standards):

• take samples of clamped cables and measure the stripping force of the clamp tips at start up, in progress and at the end of the clamping process. The measurements must be made for each type of clamped tips. Minimum stripping force is defined in the standard PN-EN 60352-2.

Note: results of the tests will be filed by the Supplier and made available to Fideltronik on request and quoted in the Certificate of Compliance for each batch.

 inspect the products for compliance with Fideltronik's cabling standard FID-STD 001 and the industrial standard IPC-A-620 Class II.

#### Certificate of compliance

Fideltronik requires a certificate of compliance to the first shipment.

Fideltronik can require also a certificate of complience to every consecutive shipment if it was specified in technical specification (point CoC=Yes).

It is required to send the certificates in electronic version to the following e-mail:

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coc.sucha@fideltronik.com - location in Sucha Beskidzka

For other Fideltronik locations paper format applies.

Certificate of compliance should contain at least the following information:

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- ♦ Fideltronik Item Number
- Fideltronik Order Number and quantity on the Order
- Quantity supplied
- ♦ Confirmation that the products passed all the required tests, measurements and an inspection in accordance with the standards indicated in 6.3
- ◆ Date of production, e.g., in the form WW/YY (week/year)
- ♦ In the case of products requiring the UL symbol, the UL RECOGNITION and the E-FILE number of particular cables and insulation mantles must be additionally shown on the certificate



#### 16 ELECTRO-MECHANICAL AND MECHANICAL COMPONENTS

#### **Quality Management System**

The supplier is required to have a quality management system implemented and maintained based on ISO 9001 or ISO-TS 16949 or at least the following procedures:

- supervision of the documentation
- supervision of records
- supervision of faulty products
- identification and traceability in the production process
- corrective actions

#### Person responsible for quality of products / services

The supplier shall be obliged to appoint a person responsible for the quality of the supplied products and services. Such person should:

- have the necessary authorisations to be able to represent the supplier during quality talks with Fideltronik, e.g., Quality Representative or Quality Manager.
- provide necessary support and supervise corrective activities and other operations connected with development of the quality management system.

#### Tests, measurements and criteria of product's visual inspection

The supplier shall be obliged to carry on necessary tests and visual inspection in order to ascertain compliance with the requirements included in the product specification.

The supplier shall additionally (if the specification does not explicitly quote other quality standards):

 Mechanical measurements (random sample control of all sizes and other parameters like shape discrepancies, surface roughness, protective coating used, type of material according to the supplied documentation)

Note: results of the tests will be filed by the Supplier and made available to Fideltronik on request.

#### Certificate of compliance

Fideltronik requires a certificate of compliance to the first shipment.

Fideltronik can require also a certificate of complience to every consecutive shipment if it was specified in technical specification (point CoC=Yes).

It is required to send the certificates in electronic version to the following e-mail:

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For other Fideltronik locations paper format applies.

Certificate of compliance should contain at least the following information:

- Fideltronik Item Number
- Fideltronik Order Number and quantity on the Order
- Quantity supplied

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- ♦ Confirmation that the products passed all the required tests, measurements and an inspection in accordance with the standards indicated in 7.3.
- Date of production, e.g., in the form WW/YY (week/year)
- In the case of products requiring the UL symbol (the requirement quoted in product specification), the UL RECOGNITION symbol must be additionally shown on the certificate.

Prepared by: Wioleta Śmiech Supplier Quality Manager	Approved by:  Ryszard Iciek  Procurement Director
Signature:	Signature: