

RESCOLL Rochefort

**RUE MAURICE MALLET
17303 ROCHEFORT CEDEX
France**

FOR THE ATTENTION OF
Stephanie ARIGONI Responsable Qualité Groupe
Florence BRIDIER Responsable Qualité site Rochefort

CERTIFICATE PREPARED BY
BOURET Laura

YOUR QUALITY RESPONSIBLE DEPUTY
BOURET Laura

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DATE
30/10/2017

OUR REFERENCE
SUR2017.0229 Ind. B

ARP-ID of the External Shop
294826

TYPE of External Shop
Independent

Attestation letter for Qualification on Test Methods

Dear Madam, Dear Sir,

We herewith inform that the couples <Test Methods / External Shop> as detailed in the Appendix have been either registered or modified in the Official Airbus Qualified Test Methods List (QTML) Database.

The latest valid status of all qualified <Test Methods / External Shop> couples is published by regular QTML reports:

- On Airbus homepage for Suppliers (<http://www.airbus.com/tools/airbusfor/suppliers/>) - Only Independent Labs.
- On Airbus Supply Portal A2QS - All External Shops.

A qualified couple is not linked to a specific product. It is the proof that the External Shop is meeting the requirement of the AP5262: Qualification Process of Couples <Test Method / External Shop>.

We remind you that the maintenance of your Test Methods Qualification depends on your monitoring on quality and technical aspects and is surveyed by Airbus on a regular basis, every year or every 2 years.

- On a quality aspect: we kindly ask you to indicate us any modification which could have a quality impact.
- Concerning technical requirements:
 - * We kindly ask you to participate at least every 2 years to the PTP organized by Exova for the tests you perform on Airbus Products (see Appendix for details on next PTP participation requirements).
You can find all necessary information about PTP participation process on the website: <https://ptp.exova.com>.
In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.
 - * On the other hand, you shall supply at least every 2 years the results of your Internal Homogeneity Studies per Test Families.

Airbus reserves the right to withdraw or suspend the qualification at any time for specific reason, e.g.

- Any major incident(s) detected on one or several Test processes
- Lack in quality
- Evidence non-compliance with the AP5262
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,

BOURET Laura
TM Qualification Engineer - TM PO Central Team
Your Quality Responsible Deputy



MALHOMME Muriel
TM Qualification Manager - TM PO Central Team
Your Quality Responsible



Appendix: Matrix of qualified Couples <Test Methods / External Shop>

APPENDIX: Matrix of qualified Couples <Test Methods / External Shop>

We hereby declare the External Shop:

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Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	Remark
	Other test - Specify in Remark		Qualified		IGC 04-26-406: densification resins insert extraction test perpendicular tensile test
	Other test - Specify in Remark		Qualified		Installation by staking according to AIPS03-03-012, ADET 0191, ADET 0033 and IGC 04-62-156
AITM 1-0002 (ISO 14129)	Fibre reinforced plastics - Determination of in-plane shear properties ($\pm 45^\circ$ tensile test)	Low	Qualified	2017	
AITM 1-0003	Determination of the glass transition temperatures (DMA)	High	Qualified	2017	QCS 131008
AITM 1-0007-A / B / C / D	Fibre reinforced plastics - Determination of plain, open hole and filled hole tensile strength	Low	Qualified	2017	
AITM 1-0008-A1 (<200kN) / A2	Fiber reinforced plastics - Determination of plain compression strength	High	Qualified	2017	A2 - QCS126582
AITM 1-0008-A1 (<200kN) / A2	Fiber reinforced plastics - Determination of plain compression strength	High	Qualified	2018	A1 - QCS126581
AITM 1-0008-B / C / D	Fiber reinforced plastics - Determination of open hole or filled hole compression strength	Low	Qualified	2017	
AITM 1-0018	Fibre reinforced plastics - Sandwich flexural test - Four-point bending	Low	Qualified	2018	
AITM 1-0025	Fiber reinforced plastics - Flatwise tensile test of composite sandwich panel	Low	Authorised to Proceed December 2017	2017	
AITM 1-0053	Carbon fibre reinforced plastics - Determination of fracture toughness energy of bonded joints - Mode I - G1c	High	Qualified	2017	QCS140657 (according issue 4)
AITM 3-0002	Analysis of non metallic material (uncured) by differential scanning calorimetry (DSC)	High	Authorised to Proceed December 2017	2017	QCS101065
AITM 3-0008 (EN 6064)	Determination of the extent of cure by differential scanning calorimetry (DSC)	High	Authorised to Proceed December 2017	2017	QCS101065
ASTM A604 (EN 2003-7)	Macroetch testing of consumable electrode remelted steel bars and billets	Low	Qualified		
ASTM E112	Determining average grain size	Low	Qualified	2018	
ASTM E3	Standard guide for preparation of metallographic specimens	Low	Qualified		

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APPENDIX: Matrix of qualified Couples <Test Methods / External Shop>

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ASTM E340	Macroetching metals and alloys	Low	Qualified		
ASTM E384	Microindentation hardness of materials	Low	Qualified	2018	
ASTM E407	Microetching metals and alloys	Low	Qualified		
ASTM E45	Determining the inclusion content of steel	Low	Qualified	2019	
ASTM E643	Standard test method for ball punch deformation of metallic sheet material		Qualified		
EN 2002-1 (ASTM E8 / ASTM B557)	Tensile testing at ambient temperature	Low	Qualified	2019	
EN 2243-3	Structural adhesives - Part 3: Peeling test metal-honeycomb core	Low	Qualified	2017	Also according to the IGC 04-26-270
EN 2377 (ISO 14130)	Glass fibre reinforced plastics - Determination of apparent interlaminar shear strength	Low	Qualified		
EN 2561	Carbon Fibre reinforced plastics - Unidirectional laminates - Tensile test parallel to the fibre direction	Low	Qualified	2017	
EN 2562	Carbon fibre reinforced plastics - Unidirectional laminates - Flexural test parallel to the fibre direction	Low	Qualified	2018	
EN 2563	Carbon fibre reinforced plastics - Unidirectional laminates - determination of apparent interlaminar shear strength	Low	Qualified	2018	
EN 2564	Carbon fibre laminates - Determination of the fibre, resin and void contents	Low	Qualified	2017	Method B
EN 2597	Carbon Fibre reinforced plastics - Unidirectional laminates - Tensile test perpendicular to the fibre direction	Low	Qualified		
EN 2747	Glass fibre reinforced plastics - Tensile test	Low	Qualified		
ISO 1183-1	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method	Low	Qualified		Method A
ISO 1463	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method	Low	Qualified	2018	

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ISO 2360	Non-conductive coatings on non-magnetic electrically conductive basis materials - Measurement of coating thickness - Amplitude-sensitive eddy current method	Low	Qualified	2018	
ISO 2409	Paints and varnishes - Cross-cut test	Low	Qualified	2018	
ISO 2812-2	Paints and varnishes - Determination of resistance to liquids - Part 2: Water immersion method	Low	Qualified	2018	
ISO 4516	Metallic and other inorganic coatings - Vickers and Knoop microhardness tests	Low	Qualified	2018	
ISO 4624	Paints and varnishes - Pull-off test for adhesion	Low	Qualified		
ISO 604	Plastics - Determination of compressive properties	Low	Qualified		
ISO 643	Steels - Micrographic determination of the apparent grain size	Low	Qualified	2018	
ISO 6892	Metallic materials - Tensile testing - Part 1: Method of test at room temperature / Part 2: Method of test at elevated temperature / Part 3: Method of test at low temperature	Low	Qualified	2019	Part 1
ISO 9227 (ASTM B117)	Corrosion tests in artificial atmospheres - Salt spray tests	Low	Authorised to Proceed December 2018	2018	

* Unless otherwise specified, last issue of the standard shall apply.

** Next PTP participation year is given for information - It is the External Shop's responsibility to check every year on the PTP Website (<https://ptp.exova.com/>) which kits are proposed.