

AIRBUS GMBH

PAI AUG KDE

HAUNSTETTER STR. 225

86179, AUGSBURG

DE

287747

TYPE of External Shop

**CAPTIVE**

## **Attestation letter for Qualification on Test Methods**

Dear Madam, Dear Sir,

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

The latest valid status of all qualified couples is published by regular QTML reports :

- On Airbus homepage for Suppliers (<https://www.airbus.com/be-an-airbus-supplier.html>)- Only Independent Labs.
- On Airbus Supply Portal - All External Test Facilities.

A qualified couple is not linked to a specific product. It is the evidence that the External Test Facility is meeting the requirement of the M20691.2: Perform Couple Compliance and Maturity's Activities for Material Products Suppliers and/or M20691.3: Perform Couple Compliance and Maturity's Activities for Aerostructure Parts Suppliers.

- We ask you to inform AIRBUS about any modification which could affect the current qualification(s).

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, including the surveillance activities (PTP results, Nadcap accreditation, etc)
- Evidence Of non-compliance with the M20691.2 and/or M20691.3
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,  
The Test Method Central Team

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

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Société par actions simplifiée au capital de 2.704.375 Euros  
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31700 Blagnac, France

## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for AIRBUS GMBH - (287747)

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM1-0002	FIBRE REINFORCED PLASTICS DETERMINATION OF IN-PLANE-SHEAR PROPERTIES	LOW	QUALIFIED WITH LIMITATIONS	ONLY STRENGTH	2025			28/10/2022
AITM1-0003	DETERMINATION OF THE GLASS TRANSITION TEMPERATURES	HIGH	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2024	161560		12/08/2022
AITM1-0005	FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE I	HIGH	QUALIFIED		2024	131256		
AITM1-0007	FIBRE REINFORCED PLASTICS DETERMINATION OF PLAIN HOLE TENSILE STRENGTH COUNTERSUNK HEAD	LOW	QUALIFIED		2025			
AITM1-0008	FIBRE REINFORCED PLASTICS DETERMINATION OF FILLED HOLE COMPRESSION STRENGTH COUNTERSUNK HEAD	HIGH	QUALIFIED WITH LIMITATIONS	* LIMITED TO TYPE: A1, A2, A3, B, C, D INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124	2024	126599, 126600, 161408		
AITM1-0009	FIBRE REINFORCED PLASTICS DETERMINATION OF BEARING STRENGTH BY EITHER PIN OR BOLT BEARING CONFIGURATION	HIGH	QUALIFIED WITH LIMITATIONS	AITM 1-0009-2 ONLY	2024	130159		

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AITM1-0010	FIBRE REINFORCED PLASTICS DETERMINATION OF COMPRESSION STRENGTH AFTER IMPACT	HIGH	QUALIFIED		2024	131073		
AITM1-0018	SANDWICH FLEXURAL TEST 4-POINT BENDING	LOW	QUALIFIED		2024			
AITM1-0019	DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 20770-ICY-CS NOTE - 1 WAY WITH QVA-Z10-46-09 WITH NO CONDITIONS	2025			
AITM1-0024	DETERMINATION OF THE COMPLETENESS OF CURE OF ORGANIC COATINGS	LOW	QUALIFIED					
AITM1-0033	SEALANTS: DETERMINATION OF THE CURING RATE OF SEALING MATERIALS	LOW	QUALIFIED					
AITM1-0053	CARBON FIBRE REINFORCED PLASTIC- DETERMINATION OF FRACTURE TOUGHNESS ENERGY OF BONDED JOINTS-MODE I-G1C	HIGH	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2025	131247		12/08/2022

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AITM1-0054	DETERMINATION OF ORANGE PEEL	LOW	QUALIFIED WITH LIMITATIONS	IN ACCORDANCE WITH 80-T-35-9127				
AITM1-0066	FIBRE REINFORCED PLASTICS - DETERMINATION OF PULL-OUT/ PULL-THROUGH STRENGTH ON RIVETED JOINTS	LOW	QUALIFIED					
AITM1-0070	SURFACE ROUGHNESS MEASUREMENTS USING SURFACE STYLUS METHODS	LOW	QUALIFIED					
AITM2-0027	DETERMINATION OF COLOUR DIFFERENCES	LOW	QUALIFIED WITH LIMITATIONS	IN ACCORDANCE WITH 80-T-35-9127				
AITM2-0034	SEALANTS: DETERMINATION OF TACK-FREE TIME OF SEALING MATERIALS	LOW	QUALIFIED					
AITM2-0061	WATER PICK UP TEST-METHOD TO DETERMINE THE IMPREGNATION LEVEL OF PREPEG MATERIALS	LOW	QUALIFIED					

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AITM3-0002	ANALYSE NICHTMETALLISCHER WERKSTOFFE (UNGEHÄRTET) MITTELS DYNAMISCHER DIFFERENZKALORIMETRIE	HIGH	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2024	180940		20/10/2022
AITM3-0008	DETERMINATION OF THE EXTENT OF CURE BY DIFFERENTIAL SCANNING CALORIMETRY	HIGH	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2024	180954		20/10/2022
AITM3-0034	COMBINED DETERMINATION OF FREE HYDROXIDE AND ALUMINIUM IN ALKALINE SURFACE TREATMENT BATHS	LOW	QUALIFIED					04/04/2024
AITM3-0036	DETERMINATION OF HYDROGEN IONS IN SURFACE TREATMENT BATHS	LOW	QUALIFIED					04/04/2024
AITM3-0038	DETERMINATION OF NON-VOLATILE-RESIDUE	LOW	QUALIFIED					04/04/2024
AITM4-0005	MACROSCOPIC AND MICROSCOPIC EXAMINATION OF FIBER REINFORCED PLASTICS	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817				12/08/2022

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AITM7-0003	SEALANTS: DETERMINATION OF APPLICATION TOME OF SEALING MATERIALS	LOW	QUALIFIED					
ASTMB117	STANDARD PRACTICE FOR OPERATING SALT SPRAY (FOG) APPARATUS	LOW	QUALIFIED		2025			29/02/2024
ASTMD1125	STANDARD TEST METHODS FOR ELECTRICAL CONDUCTIVITY AND RESISTIVITY OF WATER	LOW	QUALIFIED					04/04/2024
ASTMD1293	STANDARD TEST METHODS FOR PH OF WATER	LOW	QUALIFIED					04/04/2024
ASTMD512	STANDARD TEST METHODS FOR CHLORIDE ION IN WATER	LOW	QUALIFIED					04/04/2024
ASTMD562	STANDARD TEST METHOD FOR CONSISTENCY OF PAINTS MEASURING KREBS UNIT (KU) VISCOSITY USING A STORMER-TYPE VISCOMETER	LOW	QUALIFIED WITH LIMITATIONS	METHOD B ONLY				

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
EN12127	TEXTILES FABRICS – DETERMINATION OF MASS PER UNIT AREA USING SMALL SAMPLES	LOW	QUALIFIED					
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 287746 INTERCHANGEABILITY PER ICY-CS-19772 NOTE- 2 WAYS WITH ASTM B557	2024			28/10/2022
EN2002-6	METALLIC MATERIALS: BEND TESTING	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY ICY-CS-19771 NOTE - 2 WAYS WITH ISO7438 PER CONDITIONS: ISO 7438 APPLICABLE FOR BENDING ON SUPPORT, V-BLOCK AND CLAMPING DEVICE.				18/10/2022
EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	LOW	QUALIFIED WITH LIMITATIONS	METHOD A ONLY	2024			
EN2243-1	STRUCTURAL ADHESIVES SINGLE LAP SHEAR	LOW	QUALIFIED		2025			
EN2243-3	STRUCTURAL ADHESIVES PEELING TEST METAL HONEYCOMB-CORE DRUM PEEL TEST	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2025			12/08/2022

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Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
EN2329	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF MASS PER UNIT AREA	LOW	QUALIFIED					
EN2330	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF THE CONTENT OF VOLATILE MATTER	LOW	QUALIFIED					
EN2331	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF THE RESIN AND FIBRE CONTENT AND MASS OF FIBRE PER UNIT AREA	LOW	QUALIFIED					
EN2332	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF THE RESIN FLOW	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745				
EN2377	GLASS FIBRE REINFORCED PLASTICS; TEST METHOD; DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	LOW	QUALIFIED					
EN2557	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF MASS PER UNIT AREA	LOW	QUALIFIED					14/12/2023

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EN2558	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE VOLATILE CONTENT	LOW	QUALIFIED					
EN2559	CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE RESIN AND FIBRE CONTENT AND THE MASS OF FIBRE PER UNIT AREA	LOW	QUALIFIED					
EN2560	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE RESIN FLOW	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745				12/08/2022
EN2561	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PARALLEL TO FIBRE DIRECTION	LOW	QUALIFIED WITH LIMITATIONS	ICY-CS-20381 - INTERCHANGEABILITY NOTE XX WAY WITH QVA-Z10-46-34 ICY-CS-20017 - INTERCHANGEABILITY NOTE XX WAY WITH QVA-Z10-46-36	2025			
EN2563	CARBON FIBRE REINFORCED PLASTICS DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	LOW	QUALIFIED WITH LIMITATIONS	SUPERSEEDS QVA-Z10-46-10 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745	2024			
EN2564	AEROSPACE SERIES - CARBON FIBRE LAMINATES - DETERMINATION OF THE FIBRE RESIN AND VOID CONTENTS	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124	2025			12/08/2022

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EN2597	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PERPENDICULAR TO THE FIBRE DIRECTION	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124	2025			12/08/2022
EN2747	GLASS FIBRE REINFORCED PLASTICS TENSILE TEST	LOW	QUALIFIED		2025			
EN2850	CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR	HIGH	QUALIFIED WITH LIMITATIONS	WITHOUT SECANT COMPRESSION MODULUS INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124	2025	126660		
EN6072	CONSTANT AMPLITUDE FATIGUE TESTING	HIGH	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287746	2025	171487		12/08/2022
ISO14125	FIBER – REINFORCED PLASTIC COMPOSITES – DETERMINATION OF FLEXURAL PROPERTIES	LOW	QUALIFIED					
ISO1518	PAINTS AND VARNISHES; SCRATCH TEST	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126				12/08/2022

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ISO1519	PAINTS AND VARNISHES - BEND TEST (CYLINDRICAL MANDREL)	LOW	QUALIFIED					
ISO16276-2	CORROSION PROTECTION OF STEEL STRUCTURES BY PROTECTIVE PAINT SYSTEMS - ASSESSMENT OF AND ACCEPTANCE CRITERIA FOR THE ADHESION/COHESION (FRACTURE STRENGTH) OF A COATING - PART 2: CROSS-CUT TESTING AND X-CUT TESTING	LOW	QUALIFIED WITH LIMITATIONS	CROSS CUT (ISO 2409) AND X CUT TESTS INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126				
ISO2409	PAINTS AND VARNISHES - CROSS-CUT TEST	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817 INTERNAL REFERENT AUTHORIZED FOR ARP ID 294150	2024			28/10/2022
ISO2808	PAINTS AND VARNISHES - DETERMINATION OF FILM THICKNESS	LOW	QUALIFIED WITH LIMITATIONS	RESTRICTED TO METHOD 7D - EDDY CURRENT INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817 INTERNAL REFERENT AUTHORIZED FOR ARP ID 294150	2024			

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ISO2812-1	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 1: IMMERSION IN LIQUIDS OTHER THAN WATER	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126				08/12/2022
ISO2812-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 2: WATER IMMERSION METHOD	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817 INTERNAL REFERENT AUTHORIZED FOR ARP ID 294150	2024			28/10/2022
ISO2813	PAINTS AND VARNISHES - DETERMINATION OF SPECULAR GLOSS OF NON-METALLIC PAINT FILMS AT 20° 60° UND 85°	LOW	QUALIFIED WITH LIMITATIONS	IN ACCORDANCE WITH 80-T-35-9127				
ISO304	SURFACE ACTIVE AGENTS; DETERMINATION OF SURFACE TENSION BY DRAWING UP LIQUID FILMS	LOW	QUALIFIED					04/04/2024
ISO4628-2	PAINTS AND VARNISHES - EVALUATION OF DEGRADATION OF COATINGS; DESIGNATION OF QUANTITY AND SIZE OF DEFECTS AND OF INTENSITY OF UNIFORM CHANGES IN APPEARANCE - PART 2: ASSESSMENT OF DEGREE OF BLISTERING	LOW	QUALIFIED WITH LIMITATIONS	INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817 INTERNAL REFERENT AUTHORIZED FOR ARP ID 294150				12/08/2022

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ISO527-4	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 4: TEST CONDITIONS FOR ISOTROPIC AND ORTHOTROPIC FIBER REINFORCED PLASTIC COMPOSITES	LOW	QUALIFIED		2024			
ISO6270-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO HUMIDITY - PART 2: PROCEDURE FOR EXPOSING TEST SPECIMENS IN CONDENSATION-WATER ATMOSPHERES	LOW	QUALIFIED					
ISO6506	METALLIC MATERIALS - BRINELL HARDNESS TEST	LOW	QUALIFIED		2025			
ISO6507	METALLIC MATERIALS - VICKERS HARDNESS TEST	LOW	QUALIFIED		2024			
ISO6508	METALLIC MATERIALS - ROCKWELL HARDNESS TEST	LOW	QUALIFIED WITH LIMITATIONS	ONLY ON ROCKWELL C	2025			
ISO6892	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 WITH LIMITATIONS	PART 1 ONLY (ROOM TEMPERATURE)	2024			

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ISO9227	CORROSION TESTS IN ARTIFICIAL ATMOSPHERES - SALT SPRAY TESTS	LOW	QUALIFIED WITH LIMITATIONS	ALSO ACCORDING TO QVA-Z10-59-01 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316124 INTERNAL REFERENT AUTHORIZED FOR ARP ID 316126 INTERNAL REFERENT AUTHORIZED FOR ARP ID 287745 INTERNAL REFERENT AUTHORIZED FOR ARP ID 290817 INTERNAL REFERENT AUTHORIZED FOR ARP ID 294150	2025			
QVA-Z09-07-36	DETERMINATION OF HYDROXIDE IN ALKALINE CLEANING BATHS	LOW	QUALIFIED					04/04/2024
QVA-Z09-07-40	ANALYSIS OF COMPONENTS OF HYDROFLUORIC ACID PICKLING BATHS	LOW	QUALIFIED					04/04/2024
QVA-Z10-46-20	DETERMINATION OF RESIN CONTENT OF PREPREGS	LOW	QUALIFIED					

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ASTME399	STANDARD TEST METHOD FOR PLAIN STRAIN FRACTURE TOUGHNESS OF METALLIC MATERIALS	HIGH	SUSPENDED		2020	180694		
EN2850	CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR	HIGH	WITHDRAWN	WITHOUT SECANT COMPRESSION MODULUS	2023			28/07/2022

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