

GMA-WERKSTOFFPRUEFUNG GMBH

JULIUS-LEBER-WEG 24

21684, STADE

DE

262425

TYPE of External Shop

**INDEPENDENT**

## **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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RCS Toulouse 383 474 81

Registered office:  
1, rond-point Maurice Bellonte  
31700 Blagnac, France

## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for GMA-WERKSTOFFPRUEFUNG GMBH - (262425)

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM1-0001	FIBER REINFORCED PLASTICS DETERMINATION OF MECHANICAL DEGRADATION DUE TO CHEMICAL PAINT STRIPPERS	LOW	QUALIFIED					
AITM1-0002	FIBRE REINFORCED PLASTICSDETERMINATION OF IN-PLANE-SHEAR PROPERTIES	LOW	AUTHORISED TO PROCEED-31/01/2024		2023			19/10/2023
AITM1-0003	DETERMINATION OF THE GLASS TRANSITION TEMPERATURES	HIGH	QUALIFIED		2025	131017		
AITM1-0005	FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE I	HIGH	QUALIFIED		2024	130097		
AITM1-0006	FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE II	HIGH	QUALIFIED					
AITM1-0007	FIBRE REINFORCED PLASTICS DETERMINATION OF PLAIN HOLE TENSILE STRENGTH COUNTERSUNK HEAD	LOW	QUALIFIED		2025			29/09/2023

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AITM1-0010	FIBRE REINFORCED PLASTICS DETERMINATION OF COMPRESSION STRENGTH AFTER IMPACT	HIGH	AUTHORISED TO PROCEED-31/01/2024		2023	140455		02/11/2022
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			
AITM1-0025	FIBER REINFORCED PLASTICS FLATWISE TENSILE TEST OF COMPOSITE SANDWICH PANEL	LOW	AUTHORISED TO PROCEED-31/01/2024		2023			02/10/2023
AITM1-0029	DETERMINATION OF TENSILE STRENGTH OF TAPERED OR STEPPED JOINTS	LOW	QUALIFIED					
AITM1-0053	CARBON FIBRE REINFORCED PLASTIC- DETERMINATION OF FRACTURE TOUGHNESS ENERGY OF BONDED JOINTS-MODE I-G1C	HIGH	QUALIFIED		2024	130097		21/11/2023
AITM1-0066	FIBRE REINFORCED PLASTICS - DETERMINATION OF PULL-OUT/ PULL-THROUGH STRENGTH ON RIVETED JOINTS	LOW	QUALIFIED					

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AITM1-0070	SURFACE ROUGHNESS MEASUREMENTS USING SURFACE STYLUS METHODS	LOW	QUALIFIED					
AITM2-0001	FASERVERSTÄRKTE KUNSTSTOFFE BESTIMMUNG DER EXOTHERMEN REAKTION VON PREPREG WÄHREND DER HÄRTUNG	LOW	QUALIFIED					
AITM2-0061	WATER PICK UP TEST-METHOD TO DETERMINE THE IMPREGNATION LEVEL OF PREPEG MATERIALS	LOW	QUALIFIED					
AITM3-0001	ANALYSIS OF THERMOSET SYSTEMS BY HIGH PERFORMANCE LIQUID CHROMATOGRAPHIE	LOW	QUALIFIED					01/02/2023
AITM3-0002	ANALYSE NICHTMETALLISCHER WERKSTOFFE (UNGEHÄRTET) MITTELS DYNAMISCHER DIFFERENZKALORIMETRIE	HIGH	QUALIFIED		2025	101065		
AITM3-0003	ANALYSIS OF ORGANIC COMPOUNDS BY INFRARED SPECTROSCOPY	LOW	QUALIFIED					

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AITM3-0008	DETERMINATION OF THE EXTENT OF CURE BY DIFFERENTIAL SCANNING CALORIMETRY	HIGH	QUALIFIED		2025	101065		
AITM3-0027	DETERMINATION OF THE MELTING BEHAVIOUR AND THE EXTENT OF CRYSTALLINITY OF SEMI-CRYSTALLINE MATERIALS BY DIFFERENTIAL SCANNING CALORIMETRY (DSC)	HIGH	QUALIFIED		2025	QCS220066		14/10/2022
AITM4-0003	TEST METHOD FOR DETERMINING THE PORE CONTENT OF FIBER REINFORCED PLASTICS USING AUTOMATIC IMAGE ANALYSIS	HIGH	QUALIFIED		2024	090266		
AITM4-0005	MACROSCOPIC AND MICROSCOPIC EXAMINATION OF FIBER REINFORCED PLASTICS	LOW	QUALIFIED					
ASTMC273	STANDARD TEST METHOD FOR SHEAR PROPERTIES OF SANDWICH CORE MATERIALS	LOW	QUALIFIED					
ASTMC365	STANDARD TEST METHOD FOR FLATWISE COMPRESSIVE PROPERTIES OF SANDWICH CORES	LOW	QUALIFIED		2025			02/10/2023

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ASTMC393	STANDARD TEST METHOD FOR CORE SHEAR PROPERTIES OF SANDWICH CONSTRUCTIONS BY BEAM FLEXURE	LOW	QUALIFIED					
ASTMD2734	STANDARD TEST METHOD FOR VOID CONTENT OF REINFORCED PLASTICS	LOW	QUALIFIED					
EN2243-1	STRUCTURAL ADHESIVES SINGLE LAP SHEAR	LOW	QUALIFIED		2025			
EN2243-2	STRUCTURAL ADHESIVES PEEL METAL-METAL FLOATING ROLLER	LOW	AUTHORISED TO PROCEED WITH LIMITATIONS-29/03/2024	INTERCHANGEABILITY 21098-ICY-CS NOTE - 1 WAY WITH QVA-Z10-46-03 WITHOUT CONDITION	2024			26/07/2023
EN2243-3	STRUCTURAL ADHESIVES PEELING TEST METAL HONEYCOMB-CORE DRUM PEEL TEST	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 21362-ICY-CS - 1 WAY WITH QVA-Z10-46-05 WITH CONDITIONS: ONLY WITH METALLIC CORES	2025			
EN2243-4	STRUCTURAL ADHESIVES METAL-HONEYCOMB-CORE FLATWISE TENSILE TEST	LOW	AUTHORISED TO PROCEED-31/01/2024		2023			02/10/2023

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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					
EN2557	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF MASS PER UNIT AREA	LOW	QUALIFIED					
EN2558	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE VOLATILE CONTENT	LOW	QUALIFIED					14/12/2023

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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					14/12/2023
EN2561	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PARALLEL TO FIBRE DIRECTION	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 20380-ICY-CS NOTE - 1 WAY WITH QVA-Z10-46-36 WITH CONDITIONS: ONLY SPECIMENS WHERE THE AXIS IS PARALLEL TO THE DIRECTION OF THE FIBRES.	2025			02/11/2023
EN2562	CARBON FIBRE REINFORCED PLASTICS FLEXURAL TEST PARALLEL TO FIBRE DIRECTION	LOW	QUALIFIED		2024			
EN2563	CARBON FIBRE REINFORCED PLASTICS DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	LOW	QUALIFIED WITH LIMITATIONS	ALSO QUALIFIED FOR I+D-E-31 (RESTRICTED TO LEGACY PROGRAMS)	2024			
EN2564	AEROSPACE SERIES - CARBON FIBRE LAMINATES - DETERMINATION OF THE FIBRE RESIN AND VOID CONTENTS	LOW	QUALIFIED		2025			

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EN2597	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PERPENDICULAR TO THE FIBRE DIRECTION	LOW	QUALIFIED					
EN2667-2	STRUCTURAL ADHESIVES COMPRESSIVE TUBE SHEAR	LOW	QUALIFIED WITH LIMITATIONS	ALSO QUALIFIED FOR QVA-Z10-46-06 (RESTRICTED TO LEGACY PROGRAMS) / EN 2667-2 IS HISTORICAL				
EN2667-3	NON-METALLIC MATERIALS - FOAMING STRUCTURAL ADHESIVE FILMS - TEST METHOD - PART 3: EXPANSION RATIO AND VOLATILE CONTENT	LOW	QUALIFIED					
EN2747	GLASS FIBRE REINFORCED PLASTICS TENSILE TEST	LOW	QUALIFIED					
EN2823	FIBRE REINFORCED PLASTICS - DETERMINATION OF THE EFFECT OF EXPOSURE TO HUMID ATMOSPHERE	LOW	QUALIFIED					
EN2850	CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR	HIGH	QUALIFIED WITH LIMITATIONS	""LIMITED TO TYPE B TEST PIECE""	2024			

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ISO11357-2	PLASTICS – DIFFERENTIAL SCANNING CALORIMETRY (DCS)/ PART 2 – DETERMINATION OF GLASS TRANSITION	LOW	QUALIFIED					27/07/2022
ISO11357-3	PLASTICS – DIFFERENTIAL SCANNING CALORIMETRY (DCS)/ PART 3 – DETERMINATION OF TEMPERATURE AND ENTHALPY OF MELTING AND CRYSTALLIZATION	LOW	QUALIFIED					27/07/2022
ISO1172	TEXTILES – GLASS REINFORCED PLASTICS – PREPREGS MOULDING COMPOUNDS AND LAMINATES – DETERMINATION OF TEXTILE – GLASS AND MINERAL FILLER CONTENT – CALCINATION METHOD	LOW	QUALIFIED					01/02/2023
ISO1183-1	PLASTICS - METHODS FOR DETERMINING THE DENSITY OF NON-CELLULAR PLASTICS - PART 1: IMMERSION METHOD LIQUID PYKNOMETER METHOD AND TITRATION METHOD	LOW	QUALIFIED					
ISO14130	FIBRE REINFORCED PLASTIC COMPOSITES: DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH BY SHORT BEAM METHOD	LOW	QUALIFIED					
ISO2286-2	RUBBER- OR PLASTICS-COATED FABRICS - DETERMINATION OF ROLL CHARACTERISTICS - PART 2: METHODS FOR DETERMINATION OF THE TOTAL MASS PER UNIT AREA MASS PER UNIT AREA OF COATING AND MASS PER UNIT AREA OF SUBSTRATE	LOW	QUALIFIED					

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ISO3801	TEXTILES; WOVEN FABRICS; DETERMINATION OF MASS PER UNIT LENGTH AND MASS PER UNIT AREA	LOW	QUALIFIED					
ISO4592	PLASTICS – FILM AND SHEETING – DETERMINATION OF LENGTH AND WIDTH	LOW	QUALIFIED					
ISO4593	PLASTICS – FILM AND SHEETING – DETERMINATION OF THE THICKNESS BY MECHANICAL SCANNING	LOW	QUALIFIED					
ISO527-2	PLASTICS; DETERMINATION OF TENSILE PROPERTIES; PART 2: TEST CONDITIONS FOR MOULDING AND EXTRUSION PLASTICS	LOW	QUALIFIED					
ISO527-3	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 3: TEST CONDITIONS FOR FILMS AND SHEETS	LOW	QUALIFIED					
ISO527-4	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 4: TEST CONDITIONS FOR ISOTROPIC AND ORTHOTROPIC FIBER REINFORCED PLASTIC COMPOSITES	LOW	QUALIFIED WITH LIMITATIONS	EXCLUDING MACHINING OF TYPE 4 SPECIMENS				20/05/2022

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ISO527-5	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 5: TEST CONDITIONS FOR UNIDIRECTIONAL FIBRE-REINFORCED PLASTIC COMPOSITES	LOW	QUALIFIED					
QVA-Z10-46-07	DETERMINATION OF THE FLOW ADHESIVE FILMS	LOW	QUALIFIED					
QVA-Z10-46-08	DETERMINATION OF WEIGHT PER UNIT AREA OF ADHESIVE FOILS PREPREGS AND FIBRES	LOW	QUALIFIED					
QVA-Z10-46-18	BILDANALYTISCHES VERFAHREN ZUR BESTIMMUNG VON FASER- HARZ- UND PORENANTEILEN AN FASERVERBUNDWERKSTOFFEN	HIGH	QUALIFIED			ME0730963		
QVA-Z10-46-20	DETERMINATION OF RESIN CONTENT OF PREPREGS	LOW	QUALIFIED					

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AITM1-0008	FIBRE REINFORCED PLASTICS DETERMINATION OF FILLED HOLE COMPRESSION STRENGTH COUNTERSUNK HEAD	HIGH	SUSPENDED	*LIMITED TO TYPE A1, A2, B, C & D	2023	126590, 126589		30/11/2023
AITM1-0009	FIBRE REINFORCED PLASTICS DETERMINATION OF BEARING STRENGTH BY EITHER PIN OR BOLT BEARING CONFIGURATION	HIGH	SUSPENDED		2020	141173		
ISO4287	GEOMETRICAL PRODUCT SPECIFICATION (GPS) - SURFACE TEXTURE: PROFILE METHOD - TERMS DEFINITIONS AND SURFACE TEXTURE PARAMETERS	LOW	WITHDRAWN					10/01/2023
ISO4288	GEOMETRICAL PRODUCT SPECIFICATIONS (GPS) - SURFACE TEXTURE: PROFILE METHOD - RULES AND PROCEDURES FOR THE ASSESSMENT OF SURFACE TEXTURE	LOW	WITHDRAWN					10/01/2023

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