

ELEMENT MATERIALS TECHNOLOGY

SEVILLE SLU

CL WILBURG Y ORVILLE WRIGHT 1

41309, LA RINCONADA

ES

277364

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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31700 Blagnac, France

## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for ELEMENT MATERIALS TECHNOLOGY - (277364)

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		2023			
AITM1-0003	DETERMINATION OF THE GLASS TRANSITION TEMPERATURES	HIGH	QUALIFIED		2025	131032		
AITM1-0005	FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE I	HIGH	QUALIFIED		2024	110894		
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, B, C, & D	2025	111414		26/09/2023
AITM1-0009	FIBRE REINFORCED PLASTICS DETERMINATION OF BEARING STRENGTH BY EITHER PIN OR BOLT BEARING CONFIGURATION	HIGH	QUALIFIED		2024	150672		

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AITM1-0010	FIBRE REINFORCED PLASTICS DETERMINATION OF COMPRESSION STRENGTH AFTER IMPACT	HIGH	QUALIFIED		2024	150345		
AITM1-0018	SANDWICH FLEXURAL TEST 4-POINT BENDING	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER 20223-ICY-CS NOTE- 2 WAYS WITH ASTM D7249 WITH CONDITIONS : ASTM D 7249 FOR 4 POINT BENDING THIRD SPAN AND SKIN FAILURE				18/07/2023
AITM1-0019	DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS	LOW	QUALIFIED		2023			
AITM1-0024	DETERMINATION OF THE COMPLETENESS OF CURE OF ORGANIC COATINGS	LOW	QUALIFIED					
AITM1-0025	FIBER REINFORCED PLASTICS FLATWISE TENSILE TEST OF COMPOSITE SANDWICH PANEL	LOW	QUALIFIED		2025			
AITM1-0029	DETERMINATION OF TENSILE STRENGTH OF TAPERED OR STEPPED JOINTS	LOW	QUALIFIED					

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AITM1-0030	SEALANTS: DETERMINATION OF LAP SHEAR STRENGTH	LOW	QUALIFIED					
AITM1-0042	DETERMINATION OF FATIGUE CRACK GROWTH RATES FOR CLAD SHEET AND CLAD PLATE UP TO 12 MM IN CONSTANT-LOAD-AMPLITUDE TESTS	HIGH	QUALIFIED WITH LIMITATIONS	RESTRICTED TO SPECIMENS OF THE TYPE CT.	2025	150084		
AITM1-0053	CARBON FIBRE REINFORCED PLASTIC- DETERMINATION OF FRACTURE TOUGHNESS ENERGY OF BONDED JOINTS-MODE I-G1C	HIGH	QUALIFIED		2023	120350		
AITM1-0066	FIBRE REINFORCED PLASTICS - DETERMINATION OF PULL-OUT/ PULL-THROUGH STRENGTH ON RIVETED JOINTS	LOW	QUALIFIED					
AITM1-0067	DETERMINATION OF TENSION THROUGH THE HOLE STRENGTH ON FASTENED JOINTS	LOW	QUALIFIED					
AITM1-0069	FIBRE REINFORCED PLASTICS DETERMINATION OF CURVED-BEAM FAILURE LOAD	HIGH	QUALIFIED WITH LIMITATIONS	LIMITED TO SPECIMENS BELOW 10MM THICKNESS	2024	180591		

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AITM1-0070	SURFACE ROUGHNESS MEASUREMENTS USING SURFACE STYLUS METHODS	LOW	QUALIFIED					
AITM2-0031	DETERMINATION OF ELECTRICAL RESISTIVITY BY OHMIC METHOD	LOW	QUALIFIED					
AITM2-0061	WATER PICK UP TEST-METHOD TO DETERMINE THE IMPREGNATION LEVEL OF PREPEG MATERIALS	LOW	QUALIFIED					
AITM3-0002	ANALYSE NICHTMETALLISCHER WERKSTOFFE (UNGEHÄRTET) MITTELS DYNAMISCHER DIFFERENZKALORIMETRIE	HIGH	QUALIFIED		2025	180330		
AITM3-0003	ANALYSIS OF ORGANIC COMPOUNDS BY INFRARED SPECTROSCOPY	LOW	QUALIFIED					
AITM3-0004	DETERMINATION OF GEL TIME AND VISCOSITY	LOW	QUALIFIED					

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AITM3-0008	DETERMINATION OF THE EXTENT OF CURE BY DIFFERENTIAL SCANNING CALORIMETRY	HIGH	QUALIFIED		2025	180331		
AITM4-0003	TEST METHOD FOR DETERMINING THE PORE CONTENT OF FIBER REINFORCED PLASTICS USING AUTOMATIC IMAGE ANALYSIS	HIGH	QUALIFIED		2023	160608		
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					
ASTMC363	STANDARD TEST METHOD FOR NODE TENSILE STRENGTH OF HONEYCOMB CORE MATERIALS	LOW	QUALIFIED					
ASTMC365	STANDARD TEST METHOD FOR FLATWISE COMPRESSIVE PROPERTIES OF SANDWICH CORES	LOW	QUALIFIED		2025			26/09/2023

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ASTMC393	STANDARD TEST METHOD FOR CORE SHEAR PROPERTIES OF SANDWICH CONSTRUCTIONS BY BEAM FLEXURE	LOW	QUALIFIED					
ASTMD1781	STANDARD TEST METHOD FOR CLIMBING DRUM PEEL FOR ADHESIVES	LOW	QUALIFIED					
ASTMD1876	STANDARD TEST METHOD FOR PEEL RESISTANCE OF ADHESIVES (T-PEEL TEST)	LOW	QUALIFIED					
ASTMD732	STANDARD TEST METHOD FOR SHEAR STRENGTH OF PLASTICS BY PUNCH TOOL	LOW	QUALIFIED					
ASTME10	STANDARD TEST METHOD FOR BRINELL HARDNESS OF METALLIC MATERIALS	LOW	QUALIFIED		2024			
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	LOW	QUALIFIED		2025			

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ASTME18	STANDARD TEST METHODS FOR ROCKWELL HARDNESS OF METALLIC MATERIALS	LOW	QUALIFIED		2024			
ASTME238	STANDARD TEST METHOD FOR PIN-TYPE BEARING TEST OF METALLIC MATERIALS	HIGH	AUTHORISED TO PROCEED-31/10/2023		2023	090782		
ASTME2602-09	STANDARD TEST METHOD FOR THE ASSIGNMENT OF THE GLASS TRANSITION TEMPERATURE BY MODULATED TEMPERATURE DIFFERENTIAL SCANNING CALORIMETRY	HIGH	QUALIFIED			230329		18/07/2023
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	LOW	QUALIFIED					
ASTME340	TEST METHODE FOR MACROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					
ASTME399	STANDARD TEST METHOD FOR PLAIN STRAIN FRACTURE TOUGHNESS OF METALLIC MATERIALS	HIGH	QUALIFIED		2024	090795		

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ASTME407	TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS	LOW	QUALIFIED					
ASTME647	STANDARD TEST METHOD FOR MEASUREMENT OF FATIGUE CRACK GROWTH RATES	HIGH	QUALIFIED WITH LIMITATIONS	RESTRICTED TO SPECIMENS OF THE TYPE CT.	2025	150084		
ASTME8	STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS	LOW	QUALIFIED		2025			
ASTME9	STANDARD TEST METHODS OF COMPRESSION TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE	LOW	QUALIFIED		2024			
ASTMG34	STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS	LOW	QUALIFIED					
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER 19772-ICY-CS NOTE- 2 WAYS WITH ASTM B 557 INTERCHANGEABILITY PER 20309-ICY-CS NOTE- 2 WAYS WITH ASTM E111 WITH CONDITIONS	2025			01/09/2022

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EN2003-9	AEROSPACE SERIES - TEST METHODS - TITANIUM AND TITANIUM ALLOYS - PART 009: DETERMINATION OF SURFACE CONTAMINATION	LOW	QUALIFIED WITH LIMITATIONS	METHOD A	2024			
EN2243-1	STRUCTURAL ADHESIVES SINGLE LAP SHEAR	LOW	QUALIFIED		2025			
EN2243-2	STRUCTURAL ADHESIVES PEEL METAL-METAL FLOATING ROLLER	LOW	QUALIFIED		2025			
EN2243-3	STRUCTURAL ADHESIVES PEELING TEST METAL HONEYCOMB-CORE DRUM PEEL TEST	LOW	QUALIFIED		2025			
EN2243-4	STRUCTURAL ADHESIVES METAL-HONEYCOMB-CORE FLATWISE TENSILE TEST	LOW	QUALIFIED		2025			
EN2332	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF THE RESIN FLOW	LOW	QUALIFIED					

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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					
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					
EN2561	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PARALLEL TO FIBRE DIRECTION	LOW	QUALIFIED		2025			

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EN2562	CARBON FIBRE REINFORCED PLASTICS FLEXURAL TEST PARALLEL TO FIBRE DIRECTION	LOW	QUALIFIED		2025			
EN2563	CARBON FIBRE REINFORCED PLASTICS DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	LOW	QUALIFIED		2024			
EN2564	AEROSPACE SERIES - CARBON FIBRE LAMINATES - DETERMINATION OF THE FIBRE RESIN AND VOID CONTENTS	LOW	AUTHORISED TO PROCEED WITH LIMITATIONS-31/10/2023	RESTRICTED TO METHOD B	2023			26/09/2023
EN2597	CARBON FIBRE REINFORCED PLASTICS TENSILE TEST PERPENDICULAR TO THE FIBRE DIRECTION	LOW	QUALIFIED					
EN2667-2	STRUCTURAL ADHESIVES COMPRESSIVE TUBE SHEAR	LOW	QUALIFIED					
EN2747	GLASS FIBRE REINFORCED PLASTICS TENSILE TEST	LOW	QUALIFIED					

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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	AUTHORISED TO PROCEED-31/10/2023		2023	126664		23/09/2022
EN3615	AEROSPACE SERIES - FIBRE REINFORCED PLASTICS - DETERMINATION OF THE CONDITIONS OF EXPOSURE TO HUMID ATMOSPHERE AND OF MOISTURE ABSORPTION	LOW	QUALIFIED					
EN6072	CONSTANT AMPLITUDE FATIGUE TESTING	HIGH	QUALIFIED		2022	090787		
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					

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ISO1463	MEASUREMENT OF COATING THICKNESS - MICROSCOPICAL METHODE	LOW	QUALIFIED		2025			
ISO1519	PAINTS AND VARNISHES - BEND TEST (CYLINDRICAL MANDREL)	LOW	QUALIFIED					
ISO2409	PAINTS AND VARNISHES - CROSS-CUT TEST	LOW	QUALIFIED		2024			
ISO2808	PAINTS AND VARNISHES - DETERMINATION OF FILM THICKNESS	LOW	QUALIFIED WITH LIMITATIONS	LIMITED TO METHD 7D & 12B	2025			
ISO2812-2	PAINTS AND VARNISHES - DETERMINATION OF RESISTANCE TO LIQUIDS - PART 2: WATER IMMERSION METHOD	LOW	QUALIFIED		2024			
ISO4578	ADHESIVES – DETERMINATION OF PEEL RESISTANCE OF HIGH-STRENGTH ADHESIVE BONDS – FLOATING ROLLER METHOD	LOW	QUALIFIED					

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ISO4587	ADHESIVE – DETERMINATION OF TENSILE LAP-SHEAR STRENGTH OF RIGID-TO-RIGID BONDED ASSEMBLIES	LOW	QUALIFIED					
ISO527-2	PLASTICS; DETERMINATION OF TENSILE PROPERTIES; PART 2: TEST CONDITIONS FOR MOULDING AND EXTRUSION PLASTICS	LOW	QUALIFIED					
ISO527-4	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 4: TEST CONDITIONS FOR ISOTROPIC AND ORTHOTROPIC FIBER REINFORCED PLASTIC COMPOSITES	LOW	QUALIFIED					
ISO527-5	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 5: TEST CONDITIONS FOR UNIDIRECTIONAL FIBRE-REINFORCED PLASTIC COMPOSITES	LOW	QUALIFIED					
ISO604	PLASTICS – DETERMINATION OF COMPRESSIVE PROPERTIES	LOW	QUALIFIED					
ISO643	STEELS - MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE	LOW	QUALIFIED		2025			

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## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for ELEMENT MATERIALS TECHNOLOGY - (277364)

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ISO6506	METALLIC MATERIALS - BRINELL HARDNESS TEST	LOW	QUALIFIED		2024			
SAEAMS2315	DETERMINATION OF DELTA FERRITE CONTENT	LOW	QUALIFIED					

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## Test Methods (TM) as listed in Airbus Commercial Aircraft QTML for ELEMENT MATERIALS TECHNOLOGY - (277364)

Test Standard(s)*	Test label	Complexity	Qualification Status	Limitation	Next External comparison test Participation. **	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
AITM1-0065	FIBER REINFORCED PLASTICS DETERMINATION OF JOINT STRENGTH OF MECHANICALLY FASTENED JOINTS	HIGH	SUSPENDED		2023	180541		21/03/2023
AITM1-0076	DETERMINATION OF COMPRESSION AND TENSION STRENGTH AFTER EDGE IMPACT	HIGH	WITHDRAWN	LIMITED FOR THICKNESSES < 6 MM.				15/11/2022
ASTME111	STANDARD TEST METHOD FOR YOUNG'S MODULUS TANGENT MODULUS AND CHORD MODULUS	HIGH	SUSPENDED					28/09/2022
ASTME1251	ANALYSIS OF ALUMINUM AND ALUMINUM ALLOYS BY ATOMIC EMISSION SPECTROMETRY	LOW	WITHDRAWN					30/06/2022
EN2850	CARBON FIBRE REINFORCED PLASTICS COMPRESSION TEST PARALLEL TO FIBRE DIRECTION LOAD INTRODUCTION BY SHEAR	HIGH	WITHDRAWN	COUPLE IN REPETITION	2022			12/09/2022

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