

ELEMENT MATERIALS TECHNOLOGY

SEVILLE SL.

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>

* Next PTP participation year is given for information - It is the External Shop's responsibility to check every year on the PTP Website which kits are proposed.

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

Test Standard(s)	Test label	Surveillance Sub Family	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	SHEAR	LOW	QUALIFIED		2025			
AITM1-0003	DETERMINATION OF THE GLASS TRANSITION TEMPERATURES	DMA	HIGH	QUALIFIED		2025	131032		
AITM1-0005	FIBRE REINFORCED PLASTICS DETERMINATION OF INTERLAMINAR FRACTURE TOUGHNESS ENERGY MODE I	FRACTURE	HIGH	QUALIFIED		2026	110894		
AITM1-0007	FIBRE REINFORCED PLASTICS DETERMINATION OF PLAIN HOLE TENSILE STRENGTH, COUNTERSUNK HEAD	TENSILE	LOW	QUALIFIED		2026			
AITM1-0008	FIBRE REINFORCED PLASTICS DETERMINATION OF FILLED HOLE COMPRESSION STRENGTH, COUNTERSUNK HEAD	COMPRESSION	HIGH	QUALIFIED WITH LIMITATIONS	* LIMITED TO TYPE A1, A2, B, C, & D	2026	111414		26/09/2023
AITM1-0009	FIBRE REINFORCED PLASTICS DETERMINATION OF BEARING STRENGTH BY EITHER PIN OR BOLT BEARING CONFIGURATION	SHEAR	HIGH	QUALIFIED		2026	150672		

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AITM1-0010	FIBRE REINFORCED PLASTICS DETERMINATION OF COMPRESSION STRENGTH AFTER IMPACT	IMPACT	HIGH	QUALIFIED		2026	150345		
AITM1-0018	SANDWICH FLEXURAL TEST, 4-POINT BENDING	FLEXURE	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	2025			18/07/2023
AITM1-0019	DETERMINATION OF TENSILE LAP SHEAR STRENGTH OF COMPOSITE JOINTS	SHEAR	LOW	QUALIFIED		2025			
AITM1-0024	DETERMINATION OF THE COMPLETENESS OF CURE OF ORGANIC COATINGS	CURING	LOW	QUALIFIED					
AITM1-0025	FIBER REINFORCED PLASTICS FLATWISE TENSILE TEST OF COMPOSITE SANDWICH PANEL	TENSILE	LOW	QUALIFIED		2025			
AITM1-0029	DETERMINATION OF TENSILE STRENGTH OF TAPERED OR STEPPED JOINTS	SHEAR	LOW	QUALIFIED					

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AITM1-0030	SEALANTS: DETERMINATION OF LAP SHEAR STRENGTH	SHEAR	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	FRACTURE	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	FRACTURE	HIGH	QUALIFIED		2025	120350		
AITM1-0065	FIBER REINFORCED PLASTICS DETERMINATION OF JOINT STRENGTH OF MECHANICALLY FASTENED JOINTS	SHEAR	HIGH	QUALIFIED			180541		20/06/2025
AITM1-0066	FIBRE REINFORCED PLASTICS - DETERMINATION OF PULL-OUT/ PULL-THROUGH STRENGTH ON RIVETED JOINTS	TENSILE	LOW	QUALIFIED					
AITM1-0067	DETERMINATION OF TENSION THROUGH THE HOLE STRENGTH ON FASTENED JOINTS	SHEAR	LOW	QUALIFIED					

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AITM1-0069	FIBRE REINFORCED PLASTICS DETERMINATION OF CURVED-BEAM FAILURE LOAD	FLEXURE	HIGH	QUALIFIED WITH LIMITATIONS	LIMITED TO SPECIMENS BELOW 10MM THICKNESS	2026	180591		
AITM1-0070	SURFACE ROUGHNESS MEASUREMENTS USING SURFACE STYLUS METHODS	ROUGHNESS	LOW	QUALIFIED					
AITM2-0031	DETERMINATION OF ELECTRICAL RESISTIVITY BY OHMIC METHOD	CONDUCTIVITY	LOW	QUALIFIED					
AITM2-0061	WATER PICK UP TEST-METHOD TO DETERMINE THE IMPREGNATION LEVEL OF PREPEG MATERIALS	AGING	LOW	QUALIFIED					
AITM3-0002	ANALYSIS OF NON METALLIC MATERIALS (UNCURED) BY DIFFERENTIAL SCANNING CALORIMETRY	DSC	HIGH	QUALIFIED		2025	180330		
AITM3-0003	ANALYSIS OF ORGANIC COMPOUNDS BY INFRARED SPECTROSCOPY	SPECTROSCOPY	LOW	QUALIFIED					

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AITM3-0004	DETERMINATION OF GEL TIME AND VISCOSITY	FLOW	LOW	QUALIFIED					
AITM3-0008	DETERMINATION OF THE EXTENT OF CURE BY DIFFERENTIAL SCANNING CALORIMETRY	DSC	HIGH	QUALIFIED		2025	180331		
AITM4-0003	TEST METHOD FOR DETERMINING THE PORE CONTENT OF FIBER REINFORCED PLASTICS USING AUTOMATIC IMAGE ANALYSIS	MICROSCOPY	HIGH	QUALIFIED		2025	160608		
AITM4-0005	MACROSCOPIC AND MICROSCOPIC EXAMINATION OF FIBER REINFORCED PLASTICS	MICROSCOPY	LOW	QUALIFIED					
ASTMC273	STANDARD TEST METHOD FOR SHEAR PROPERTIES OF SANDWICH CORE MATERIALS	SHEAR	LOW	QUALIFIED		2026			
ASTMC363	STANDARD TEST METHOD FOR NODE TENSILE STRENGTH OF HONEYCOMB CORE MATERIALS	TENSILE	LOW	QUALIFIED					

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Test Standard(s)	Test label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTMC365	STANDARD TEST METHOD FOR FLATWISE COMPRESSIVE PROPERTIES OF SANDWICH CORES	COMPRESSION	LOW	QUALIFIED		2026			26/09/2023
ASTMC393	STANDARD TEST METHOD FOR CORE SHEAR PROPERTIES OF SANDWICH CONSTRUCTIONS BY BEAM FLEXURE	FLEXURE	LOW	QUALIFIED		2025			
ASTMD1781	STANDARD TEST METHOD FOR CLIMBING DRUM PEEL FOR ADHESIVES	PEEL	LOW	QUALIFIED		2025			
ASTMD1876	STANDARD TEST METHOD FOR PEEL RESISTANCE OF ADHESIVES (T-PEEL TEST)	PEEL	LOW	QUALIFIED					
ASTMD732	STANDARD TEST METHOD FOR SHEAR STRENGTH OF PLASTICS BY PUNCH TOOL	SHEAR	LOW	QUALIFIED					
ASTME10	STANDARD TEST METHOD FOR BRINELL HARDNESS OF METALLIC MATERIALS	HARDNESS	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY 19545-ICY-CS NOTE - 2 WAYS WITH ISO6506	2026			02/11/2023

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Test Standard(s)	Test label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ASTME112	STANDARD TEST METHODS FOR DETERMINING AVERAGE GRAIN SIZE	GRAIN SIZE	LOW	QUALIFIED		2025			
ASTME18	STANDARD TEST METHODS FOR ROCKWELL HARDNESS OF METALLIC MATERIALS	HARDNESS	LOW	QUALIFIED		2026			
ASTME238	STANDARD TEST METHOD FOR PIN-TYPE BEARING TEST OF METALLIC MATERIALS	SHEAR	HIGH	QUALIFIED		2025	090782		31/03/2025
ASTME2602	STANDARD TEST METHOD FOR THE ASSIGNMENT OF THE GLASS TRANSITION TEMPERATURE BY MODULATED TEMPERATURE DIFFERENTIAL SCANNING CALORIMETRY	DSC	HIGH	QUALIFIED			230329		18/07/2023
ASTME3	STANDARD GUIDE FOR PREPARATION OF METALLOGRAPHIC SPECIMENS	MANUFACTURING	LOW	QUALIFIED					
ASTME340	STANDARD PRACTICE FOR MACROETCHING METALS AND ALLOYS	MICROSCOPY	LOW	QUALIFIED					

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ASTME399	STANDARD TEST METHOD FOR PLAIN STRAIN FRACTURE TOUGHNESS OF METALLIC MATERIALS	FRACTURE	HIGH	QUALIFIED		2026	090795		
ASTME407	TEST METHODE FOR MICROETCHING OF METALS AND ALLOYS	MICROSCOPY	LOW	QUALIFIED					
ASTME647	STANDARD TEST METHOD FOR MEASUREMENT OF FATIGUE CRACK GROWTH RATES	FRACTURE	HIGH	QUALIFIED WITH LIMITATIONS	RESTRICTED TO SPECIMENS OF THE TYPE CT.	2025	150084		
ASTME9	STANDARD TEST METHODS OF COMPRESSION TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE	COMPRESSION	LOW	QUALIFIED		2026			
ASTMG34	STANDARD PRACTICE FOR EVALUATING EXFOLIATION CORROSION SUSCEPTIBILITY IN 2XXX AND 7XXX SERIES ALUMINUM ALLOYS	CORROSION	LOW	QUALIFIED					
EN2002-1	TENSILE TESTING AT AMBIENT TEMPERATURE	TENSILE	LOW	QUALIFIED WITH LIMITATIONS	INTERCHANGEABILITY PER 19772-ICY-CS NOTE- 2 WAYS WITH ASTME8 AND 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	MICROSCOPY	LOW	QUALIFIED WITH LIMITATIONS	METHOD A	2026			
EN2243-1	STRUCTURAL ADHESIVES, SINGLE LAP SHEAR	SHEAR	LOW	QUALIFIED		2025			
EN2243-2	STRUCTURAL ADHESIVES, PEEL METAL-METAL, FLOATING ROLLER	PEEL	LOW	QUALIFIED		2025			
EN2243-3	STRUCTURAL ADHESIVES, PEELING TEST, METAL HONEYCOMB-CORE, DRUM PEEL TEST	PEEL	LOW	QUALIFIED		2025			
EN2243-4	STRUCTURAL ADHESIVES, METAL-HONEYCOMB- CORE FLATWISE TENSILE TEST	TENSILE	LOW	QUALIFIED		2025			
EN2332	AEROSPACE SERIES; TEXTILE GLASS FIBRE PREIMPREGNATES; TEST METHOD FOR THE DETERMINATION OF THE RESIN FLOW	FLOW	LOW	QUALIFIED					

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EN2377	GLASS FIBRE REINFORCED PLASTICS; TEST METHOD; DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	FLEXURE	LOW	QUALIFIED		2026			
EN2557	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF MASS PER UNIT AREA	DENSITY	LOW	QUALIFIED					
EN2558	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE VOLATILE CONTENT	CONTENT	LOW	QUALIFIED					
EN2559	CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE RESIN AND FIBRE CONTENT AND THE MASS OF FIBRE PER UNIT AREA	DENSITY	LOW	QUALIFIED					
EN2560	AEROSPACE SERIES - CARBON FIBRE PREIMPREGNATES - DETERMINATION OF THE RESIN FLOW	FLOW	LOW	QUALIFIED					
EN2561	CARBON FIBRE REINFORCED PLASTICS, TENSILE TEST PARALLEL TO FIBRE DIRECTION	TENSILE	LOW	QUALIFIED		2026			

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EN2562	CARBON FIBRE REINFORCED PLASTICS, FLEXURAL TEST PARALLEL TO FIBRE DIRECTION	FLEXURE	LOW	QUALIFIED		2025			
EN2563	CARBON FIBRE REINFORCED PLASTICS, DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH	FLEXURE	LOW	QUALIFIED		2026			
EN2564	AEROSPACE SERIES - CARBON FIBRE LAMINATES - DETERMINATION OF THE FIBRE, RESIN AND VOID CONTENTS	CONTENT	LOW	QUALIFIED WITH LIMITATIONS	RESTRICTED TO METHOD B	2025			06/10/2023
EN2597	CARBON FIBRE REINFORCED PLASTICS, TENSILE TEST PERPENDICULAR TO THE FIBRE DIRECTION	TENSILE	LOW	QUALIFIED		2026			
EN2667-2	STRUCTURAL ADHESIVES, COMPRESSIVE TUBE SHEAR	SHEAR	LOW	QUALIFIED					
EN2747	GLASS FIBRE REINFORCED PLASTICS, TENSILE TEST	TENSILE	LOW	QUALIFIED		2026			

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EN2823	FIBRE REINFORCED PLASTICS - DETERMINATION OF THE EFFECT OF EXPOSURE TO HUMID ATMOSPHERE	AGING	LOW	QUALIFIED					
EN2850	CARBON FIBRE REINFORCED PLASTICS, COMPRESSION TEST PARALLEL TO FIBRE DIRECTION, LOAD INTRODUCTION BY SHEAR	COMPRESSION	LOW	QUALIFIED		2024	126664		31/01/2024
EN3615	AEROSPACE SERIES - FIBRE REINFORCED PLASTICS - DETERMINATION OF THE CONDITIONS OF EXPOSURE TO HUMID ATMOSPHERE AND OF MOISTURE ABSORPTION	AGING	LOW	QUALIFIED					
EN6072	CONSTANT AMPLITUDE FATIGUE TESTING	FATIGUE	HIGH	QUALIFIED		2026	090787		30/10/2024
ISO1183-1	PLASTICS - METHODS FOR DETERMINING THE DENSITY OF NON-CELLULAR PLASTICS - PART 1: IMMERSION METHOD, LIQUID PYKNOMETER METHOD AND TITRATION METHOD	DENSITY	LOW	QUALIFIED					

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ISO14130	FIBRE REINFORCED PLASTIC COMPOSITES: DETERMINATION OF APPARENT INTERLAMINAR SHEAR STRENGTH BY SHORT BEAM METHOD	FLEXURE	LOW	QUALIFIED		2026			
ISO1463	MEASUREMENT OF COATING THICKNESS - MICROSCOPICAL METHODE	MICROSCOPY	LOW	QUALIFIED		2025			
ISO1519	PAINTS AND VARNISHES - BEND TEST (CYLINDRICAL MANDREL)	FLEXURE	LOW	QUALIFIED					
ISO2409	PAINTS AND VARNISHES - CROSS-CUT TEST	ADHESION	LOW	QUALIFIED		2026			
ISO2808	PAINTS AND VARNISHES - DETERMINATION OF FILM THICKNESS	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	RESISTANCE TO FLUIDS	LOW	QUALIFIED		2026			

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ISO4578	ADHESIVES – DETERMINATION OF PEEL RESISTANCE OF HIGH- STRENGTH ADHESIVE BONDS – FLOATING ROLLER METHOD	PEEL	LOW	QUALIFIED					
ISO4587	ADHESIVE – DETERMINATION OF TENSILE LAP-SHEAR STRENGTH OF RIGID-TO- RIGID BONDED ASSEMBLIES	SHEAR	LOW	QUALIFIED					
ISO527-2	PLASTICS; DETERMINATION OF TENSILE PROPERTIES; PART 2: TEST CONDITIONS FOR MOULDING AND EXTRUSION PLASTICS	TENSILE	LOW	QUALIFIED		2024			
ISO527-4	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 4: TEST CONDITIONS FOR ISOTROPIC AND ORTHOTROPIC FIBER REINFORCED PLASTIC COMPOSITES	TENSILE	LOW	QUALIFIED		2026			
ISO527-5	PLASTICS - DETERMINATION OF TENSILE PROPERTIES - PART 5: TEST CONDITIONS FOR UNIDIRECTIONAL FIBRE-REINFORCED PLASTIC COMPOSITES	TENSILE	LOW	QUALIFIED		2026			
ISO604	PLASTICS – DETERMINATION OF COMPRESSIVE PROPERTIES	COMPRESSION	LOW	QUALIFIED		2026			

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

Test Standard(s)	Test label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
ISO643	STEELS - MICROGRAPHIC DETERMINATION OF THE APPARENT GRAIN SIZE	GRAIN SIZE	LOW	QUALIFIED		2025			
SAEAMS2315	DETERMINATION OF DELTA FERRITE CONTENT	MICROSCOPY	LOW	QUALIFIED					

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AITM1-0076	DETERMINATION OF COMPRESSION AND TENSION STRENGTH AFTER EDGE IMPACT	IMPACT	HIGH	WITHDRAWN	LIMITED FOR THICKNESSES < 6 MM.					15/11/2022
ASTME111	STANDARD TEST METHOD FOR YOUNG'S MODULUS, TANGENT MODULUS AND CHORD MODULUS	TENSILE	LOW	WITHDRAWN						16/06/2025
ASTME1251	ANALYSIS OF ALUMINUM AND ALUMINUM ALLOYS BY ATOMIC EMISSION SPECTROMETRY	SPECTROSCOPY	LOW	WITHDRAWN						30/06/2022
ASTME2602-09	STANDARD TEST METHOD FOR THE ASSIGNMENT OF THE GLASS TRANSITION TEMPERATURE BY MODULATED TEMPERATURE DIFFERENTIAL SCANNING CALORIMETRY	DSC	HIGH	WITHDRAWN				230329		31/10/2024
ASTME8	STANDARD TEST METHODS FOR TENSION TESTING OF METALLIC MATERIALS	TENSILE	LOW	WITHDRAWN	EN 2002-1 HAS BEEN ESTABLISHED THE MASTER STANDARD ACCORDING TO THE ANALYSIS ABOUT THE TECHNOLOGICAL SCOPE OF TENSILE TESTING OF METALLIC MATERIALS AT ROOM TEMPERATURE (ICY-CS-19772 NOTE). SEE EN 2002-1 FOR INTERCHANGEABILITY WITH ASTM E8	2025				02/11/2023

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Test Standard(s)	Test Label	Surveillance Sub Family	Complexity	Qualification Status	Limitation	Next External comparison test Participation.*	Facility	Technical Qualification Reference	Deviation Reference	Last Qualification Update date
EN2850	CARBON FIBRE REINFORCED PLASTICS, COMPRESSION TEST PARALLEL TO FIBRE DIRECTION, LOAD INTRODUCTION BY SHEAR	COMPRESSION	LOW	WITHDRAWN	COUPLE IN REPETITION					12/09/2022
ISO6506	METALLIC MATERIALS - BRINELL HARDNESS TEST	HARDNESS	LOW	WITHDRAWN						02/11/2023

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