AIRBUS

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

FOR THE ATTENTION OF

Bernhard AUSPERGER Head of PENL2 - PENL lab
Christian BLANK Foreman paint shop - POAM4 Production
Marcus HARTMANN Authorities & Surveillance - PENL lab
Markus KLUG Laboratory manager - PENL lab
Roman SCHIMKUS Technical Change - POAM4 Production line
Marlen STEINMUELLER Head of Test Preparation - PENL lab
Thomas WIEDERSATZ Engineering Quality - PENL lab

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme

YOUR QTML FOCAL POINT
GRADISTANAC Jérôme

E-MAIL
jerome.gradistanac.external@airbus.com

PHONE
+33 5 82 05 04 67

DATE
31/01/2022

OUR REFERENCE
SUR2021.0129 Ind. J

ARP-ID of the External Shop
287747

TYPE of External Shop

Captive

Attestation letter for Qualification on Test Methods

Dear Madam, Dear Sir,

We herewith inform that the couples <Test Methods / External Shop> as detailled 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 <Test Methods / External Shop> 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 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 M20691.2: Perform Couple <Product/Supplier Site> Compliance and Maturity's Activities for Material Products Suppliers and/or M20691.3: Perform Couple <Product/Supplier Site> Compliance and Maturity's Activities for Aerostructure Parts Suppliers.

- 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 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://ptpscheme.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In case of PTP results out of tolerances, the couples qualification can be downgraded to an authorisation to proceed or withdrawn and the PTP participation frequency is reduced to one year, subject to acceptance by Airbus of your Root Cause Analysis and associated Corrective Actions.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 M20691.2 and/or M20691.3
- Loss of Airbus Supplier Approval
- Stop of the Business

Yours faithfully,

GRADISTANAC Jérôme
Airbus Test Methods Auditor POMDS – CE
Your QTML Focal Point

SAUX Alexandra
Test Methods Coordinator POMDS– CE

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

AIRBUS

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

We hereby declare the External Shop:

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme
DATE
31/01/2022
OUR REFERNCE
SUR2021.0129 Ind. J
ARP-ID of the External Shop
287747
TYPE of External Shop
Captive

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
AITM 1-0002	Fibre reinforced plastics - Determination of in-plane shear properties (±45° tensile test)	Low	Authorised to Proceed March 2022	2021		
AITM 1-0003	Determination of the glass transition temperatures (DMA)	High	Qualified	2022	161560	
AITM 1-0005	Fibre reinforced plastics - Determination of interlaminar fracture toughness energy - Mode I - G1c	High	Qualified	2022	131256	
AITM 1-0007-A / B / C / D	Fibre reinforced plastics - Determination of plain, open hole and filled hole tensile strength	Low	Qualified	2023		
AITM 1-0008-A1	Fiber reinforced plastics - Determination of plain compression strength (Thick specimens, <200kN)	High	Qualified with limitations	2022	126599, 126600,	* Limited to type: A1, A2, A3, B, C, D
AITM 1-0009-1 / 2	Fibre reinforced plastics - Determination of bearing strength by either pin or bolt bearing configuration	High	Qualified with limitations	2022	130159	AITM 1-0009-2 only
AITM 1-0010	Fibre reinforced plastics - Determination of compression strength after impact	High	Qualified	2022	131073	
AITM 1-0018	Fibre reinforced plastics - Sandwich flexural test - Four-point bending	Low	Qualified			
AITM 1-0019	Determination of tensile lap shear strength of composite joints	Low	Qualified with limitations	2023		Also according to QVA-Z10-46-09 (restricted to Legacy programs)
AITM 1-0024	Determination of the completeness of cure of organic coatings	Low	Qualified			
AITM 1-0033	Sealants: Determination of the curing rate of sealing materials	Low	Qualified			
AITM 1-0053	Carbon fibre reinforced plastics - Determination of fracture toughness energy of bonded joints - Mode I - G1c	High	Qualified	2022	131247	
AITM 1-0054	Determination of orange peel	Low	Qualified with limitations			In accordance with 80-T-35-9127
AITM 1-0066	Fibre reinforced plastics – Determination of pull-out / pull-through strength on riveted joints	Low	Qualified			
AITM 1-0070 (incl. ISO 4287)	Surface roughness measurements using surface stylus methods	Low	Qualified			
AITM 2-0027	Determination of colour differences	Low	Qualified with limitations			In accordance with 80-T-35-9127

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

We hereby declare the External Shop:

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme
DATE
31/01/2022
OUR REFERNCE
SUR2021.0129 Ind. J
ARP-ID of the External Shop
287747
TYPE of External Shop
Captive

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
AITM 2-0034	Sealants - Determination of tack-free time of sealing materials	Low	Qualified			
AITM 2-0061	Water pick up test-method to determine the impregnation level of prepeg materials	Low	Qualified			
AITM 3-0002	Analysis of non metallic material (uncured) by differential scanning calorimetry (DSC)	High	Authorised to Proceed February 2022	2021	180940	
AITM 3-0008	Determination of the extent of cure by differential scanning calorimetry (DSC)	High	Authorised to Proceed February 2022	2021	180954	
AITM 4-0005	Macroscopic and microscopic examination of fiber reinforced plastics	Low	Qualified			
AITM 7-0003	Sealants - Determination of application time of sealing materials	Low	Qualified			
ASTM B117	Standard practice for operating salt spray (Fog) apparatus	Low	Qualified with limitations	2023		Also according to QVA-Z10-59-01
ASTM B557	Standard Test Methods for Tension Testing Wrought and Cast Aluminum- and Magnesium-Alloy Products	Low	Qualified	2022		
ASTM D562	Standard test method for consistency of paints measuring Krebs unit (KU) viscosity using a Stormer-Type viscometer	Low	Qualified with limitations			Method B only
EN 12127	Textiles - Fabrics - Determination of mass per unit area using small samples	Low	Qualified			
EN 2002-1	Tensile testing at ambient temperature	Low	Qualified	2022		
EN 2003-9	Titanium and titanium alloys - Part 9: Determination of surface contamination (method A: Micrographic examination / Method B: Hardness testing)	Low	Qualified with limitations	2022		Method A only
EN 2243-1	Structural adhesives - Part 1: Single lap shear	Low	Qualified	2023		
EN 2243-3	Structural adhesives - Part 3: Peeling test metal-honeycomb core	Low	Qualified	2023		
EN 2329	Textile glass fibre preimpregnates - Test method for the determination of mass per unit area	Low	Qualified			

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

We hereby declare the External Shop:

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme
DATE
31/01/2022
OUR REFERNCE
SUR2021.0129 Ind. J
ARP-ID of the External Shop
287747
TYPE of External Shop
Captive

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
EN 2330	Textile glass fibre preimpregnates - Test method for the determination of the content of volatile matter	Low	Qualified			
EN 2331	Textile glass fibre preimpregnates - Test method for the determination of the resin and fibre content and mass of fibre per unit area	Low	Qualified			
EN 2332	Textile glass fibre preimpregnates - Test method for the determination of the resin flow	Low	Qualified with limitations			Also according to QVA-Z10-46-33 (restricted to Legacy Programs)
EN 2377	Glass fibre reinforced plastics - Determination of apparent interlaminar shear strength	Low	Qualified			
EN 2557	Carbon fibre preimpregnates - Determination of mass per unit area	Low	Qualified with limitations			Also according to QVA-Z10-46-08 (restricted to Legacy Programs)
EN 2558	Carbon fibre preimpregnates - Determination of the volatile content	Low	Qualified			
EN 2559	Carbon fibre preimpregnates - Test method for the determination of the resin and fibre content and the mass of fibre per unit area	Low	Qualified			
EN 2560	Carbon fibre preimpregnates - Determination of the resin flow	Low	Qualified			
EN 2561	Carbon Fibre reinforced plastics - Unidirectional laminates - Tensile test parallel to the fibre direction	Low	Qualified with limitations	2023		Also according to ISO 527-1, QVA-Z10-46-34 and QVA-Z10-46-36
EN 2563	Carbon fibre reinforced plastics - Unidirectional laminates - determination of apparent interlaminar shear strength	Low	Qualified with limitations	2022		Also according to QVA-Z10-46-10
EN 2564	Carbon fibre laminates - Determination of the fibre, resin and void contents	Low	Qualified	2023		
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			
EN 2850-A (Pren)	Carbon Fibre reinforced plastics, compression test parallel to fibre direction, load introduction by shear	High	Qualified with limitations	2023	126660	Without Secant compression modulus
EN 2850-B (PREN)	Carbon fibre thermosetting resin unidirectional laminates - Compression test parallel to fibre direction - Method B	Low	Qualified with limitations	2023		Without Secant compression modulus

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

We hereby declare the External Shop:

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme
DATE
31/01/2022
OUR REFERNCE
SUR2021.0129 Ind. J
ARP-ID of the External Shop
287747
TYPE of External Shop
Captive

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
EN 6072	Constant amplitude fatigue testing (HCF)	High	Qualified	2021	171487	
ISO 14125	Fiber reinforced plastic composites - Determination of flexural properties	Low	Qualified			
ISO 14126-1	Fibre-reinforced plastic composites - Determination of compressive properties in the in-plane direction; Technical corrigendum 1	High	Qualified with limitations	2023	126660	Without Secant compression modulus - Strain method
ISO 1518	Paints and varnishes - Scratch test	Low	Qualified			
ISO 1519	Paints and varnishes - Bend test (cylindrical mandrel)	Low	Qualified			
ISO 16276-2	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
ISO 2409	Paints and varnishes - Cross-cut test	Low	Qualified	2022		
ISO 2808	Paints and varnishes - Determination of film thickness	Low	Qualified with limitations	2022		Restricted to Method 7D - Eddy Current
ISO 2812-2	Paints and varnishes - Determination of resistance to liquids - Part 2: Water immersion method	Low	Qualified	2022		
ISO 2813	Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°	Low	Qualified with limitations			In accordance with 80-T-35-9127
ISO 4628-2	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			
ISO 527-4	Plastics - Determination of tensile properties - Part 4: Test conditions for isotropic and orthotropic fiber reinforced plastic composites	Low	Qualified			
ISO 6270-2	Paints and varnishes - Determination of resistance to humidity - Part 2: Procedure for exposing test specimens in condensation-water atmospheres	Low	Qualified			

AIRBUS

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

We hereby declare the External Shop:

PREMIUM AEROTEC GMBH AUGSBURG PLANT 4

HAUNSTETTER STR. 225
Building 428
86179 AUGSBURG
Germany

CERTIFICATE PREPARED BY
GRADISTANAC Jérôme
DATE
31/01/2022
OUR REFERNCE
SUR2021.0129 Ind. J
ARP-ID of the External Shop
287747
TYPE of External Shop
Captive

Qualified or Authorised to proceed for the following Test processes:

Test Standard(s) *	Test label	Complex.	Qualif. Status	Next PTP part. **	QCS Ref.	Remark
ISO 6506	Metallic materials - Brinell hardness test	Low	Qualified	2023		
ISO 6507	Metallic materials - Vickers hardness test	Low	Qualified	2023		
ISO 6508	Metallic materials - Rockwell hardness test	Low	Qualified with limitations	2023		Only on Rockwell C
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 with limitations	2022		Part 1 only (room temperature)
ISO 9227	Corrosion tests in artificial atmospheres - Salt spray tests	Low	Qualified with limitations	2023		Also according to QVA-Z10-59-01
QVA-Z10-46-20	Determination of resin content of prepregs	Low	Qualified			
Z_Other	Other test - Specify in Remark	None	Qualified			QVA-Z10-46-12: Determination of the Laminate Fibre Content of Cured Fibre Compounds (restricted to Legacy programs)

* 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://ptpscheme.com/) which kits are proposed.