



6th International Carbon Composites Conference Arcachon – June 4 to 6, 2018



Presented by:

Amélie BRIENTIN

R&T Project Manager

Chef de projet R&T et Développement

Tel +33 (0)5 67 04 29 08
Mob +33 (0)6 32 06 34 98
amelie.brientin@aviacomp.fr



a SOGECLAIR
company

SOGECLAIR

SOGECLAIR



CA of 147,3 millions euros in 2017



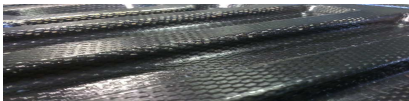
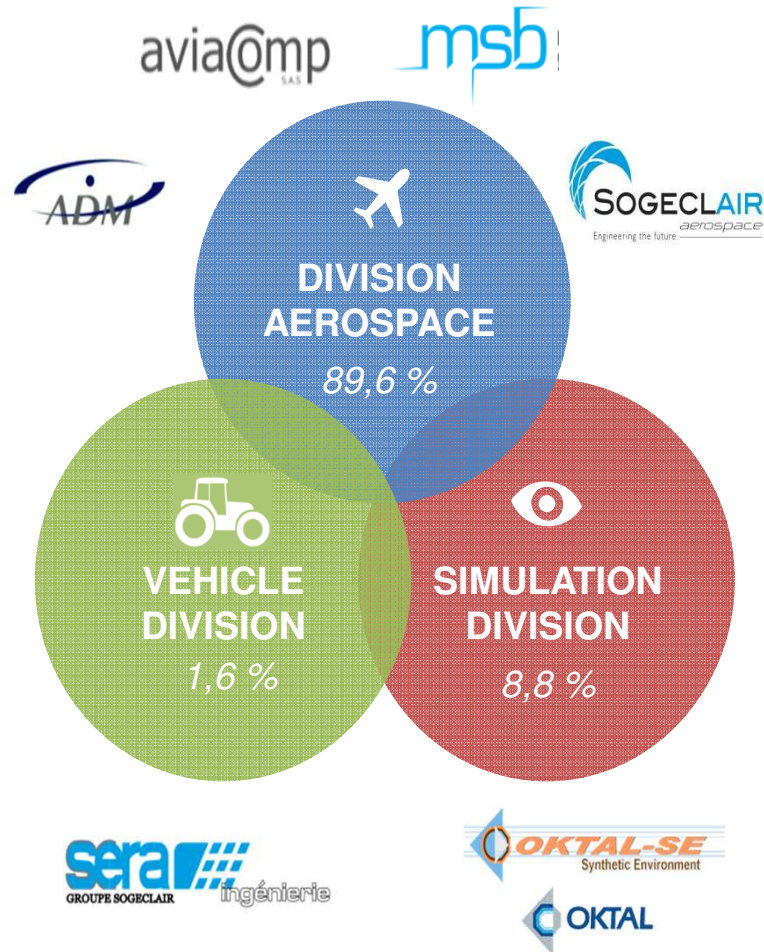
Growth of 7,9% since 2017



1 400 employees



Familial company listed on NYSE Euronext Paris



Aviacomp's historical

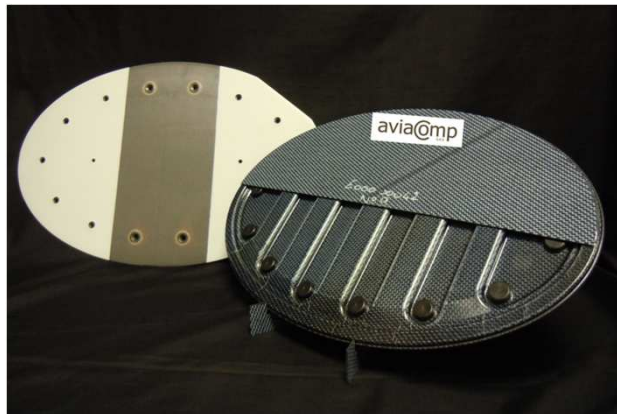
- Creation on May 2008
- Installation in Launaguet : June 2009
- Win A350 XWB FTACs WP: November 2009
- Win Bombardier FTAPs WP : November 2010
- Win A350 XWB Floor program : June 2013
- Installation in Saint Martin : November 2015
- Shareholder : 100% SOGECLAIR – April 2016
- All means in Aviacomp manufacture: 2016
- All means qualification : 2017



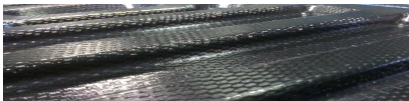
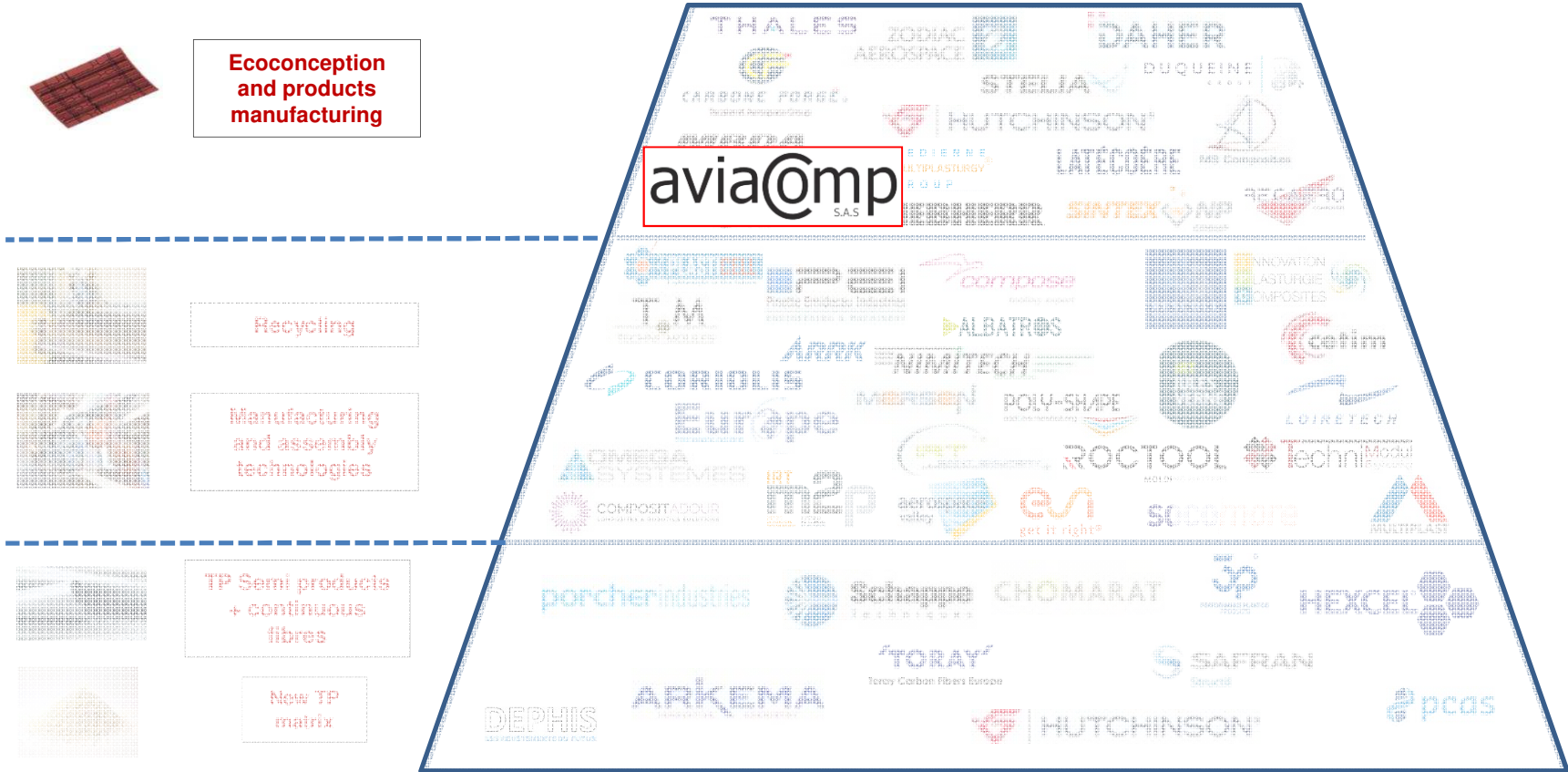
2015



AVIACOMP SAS
2 000M²
 ZAC de St Martin du Touch
 Rue Marius TERCE
 31300 TOULOUSE FRANCE
 Tel. 05 31 08 16 67 Fax.05 62 79 87 88
 www.aviacomp.fr



Aviacomp part of Thermoplastic Aeronautical and spacial French Industrial group (GIFAS)

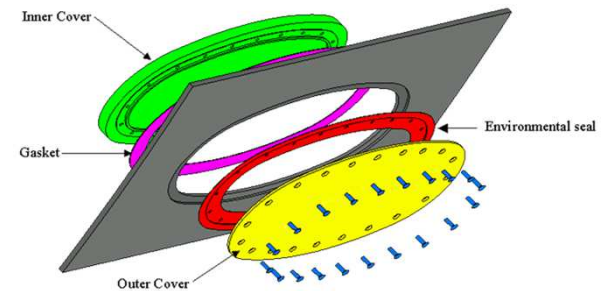


Fuel Tank Access Doors

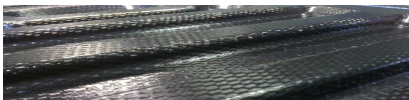


Origin : EADS.com
A350 Wing Lower Cover

Fuel Tank Access Doors using composite carbon fiber with thermoplastic matrix and induction welding technology
Around delivery 1000 sets per month

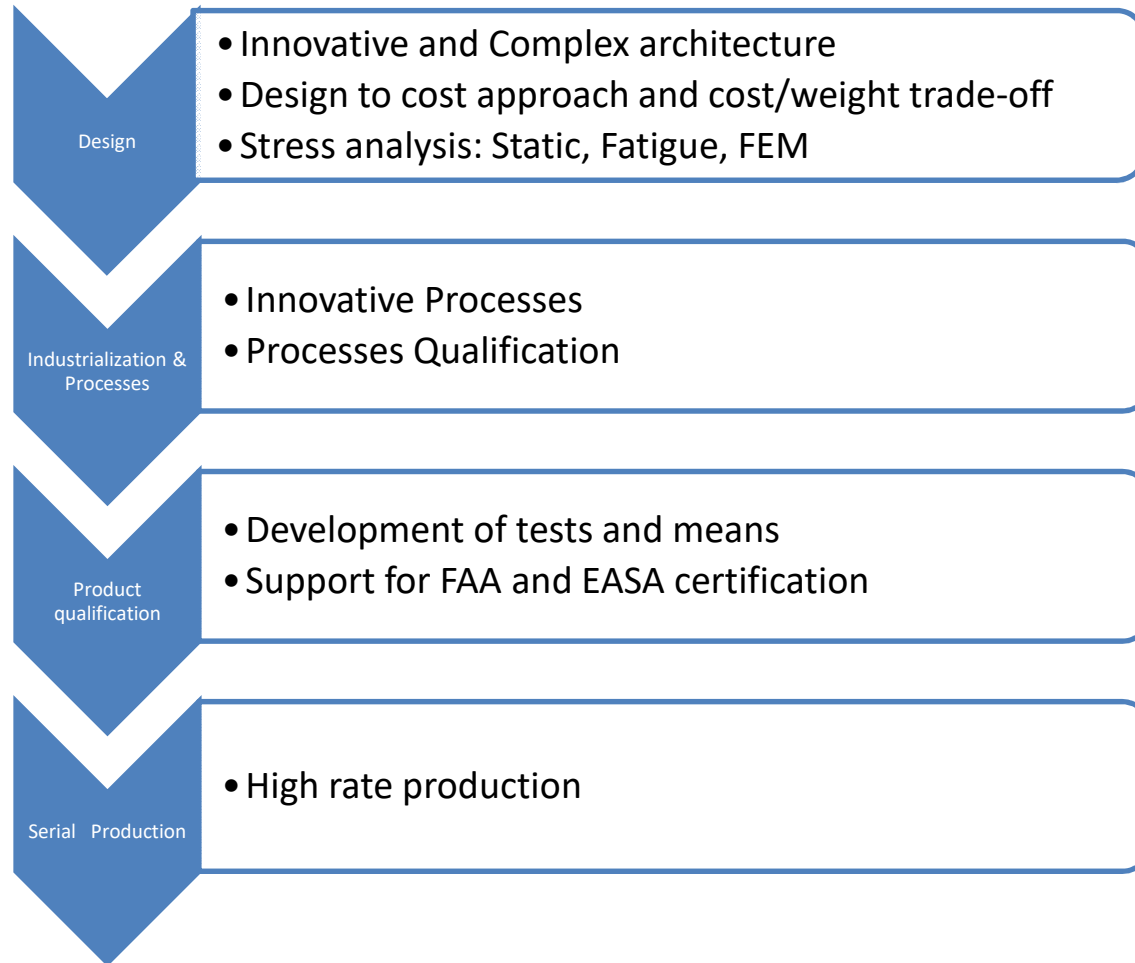


CS25 fully compliant with carbon wings



End to end solutions

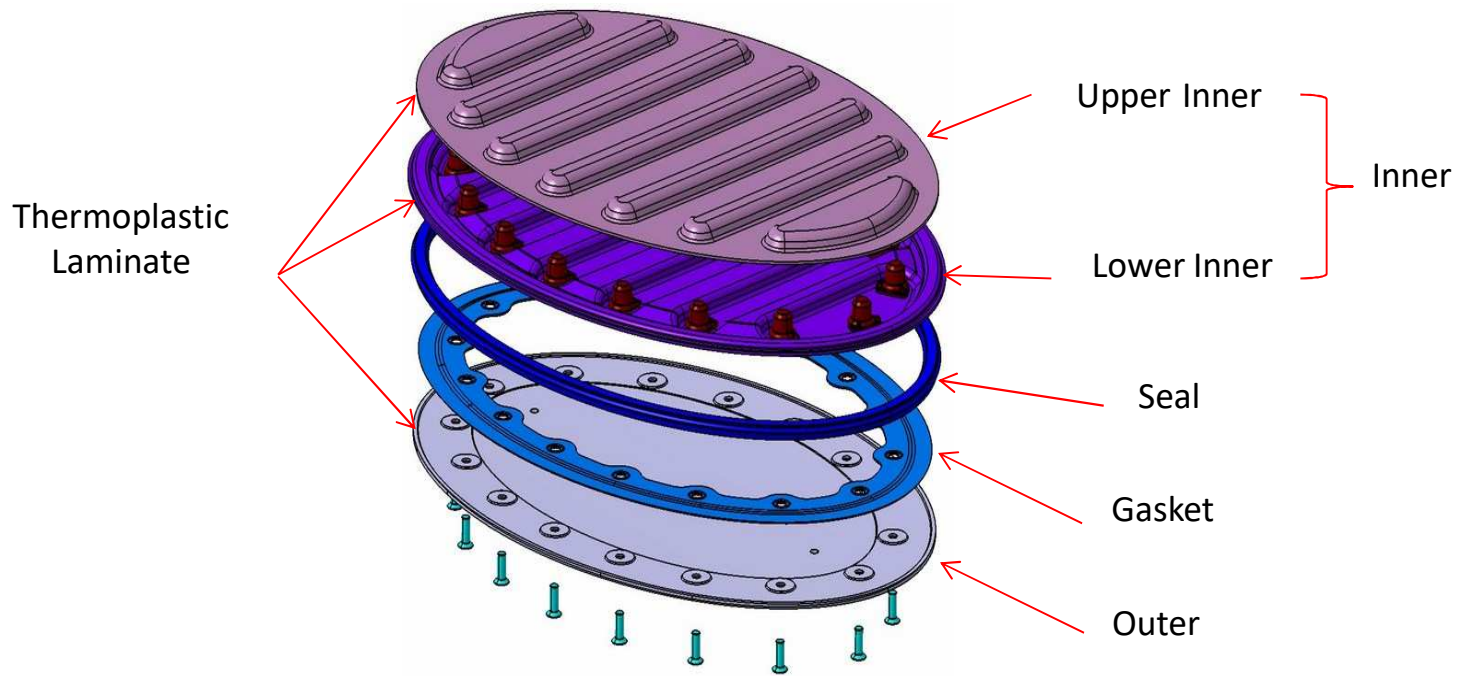
The company expertise involves :





- Innovative and Complex architecture
- Design to cost approach and cost/weight trade-off
- Stress analysis: Static, Fatigue, FEM

Design develop by AVIACOMP:



Industrialization & Processes

- Innovative Processes
- Processes Qualification

Non Destructive Inspection



Thermoforming

Consolidation Out of autoclave



Waterjet cutting

Manual lay up

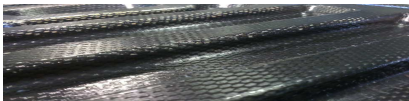


Overmolding

Induction Welding

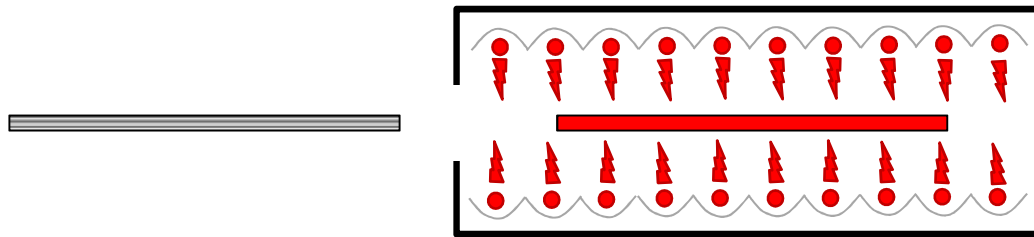


Thermal Welding

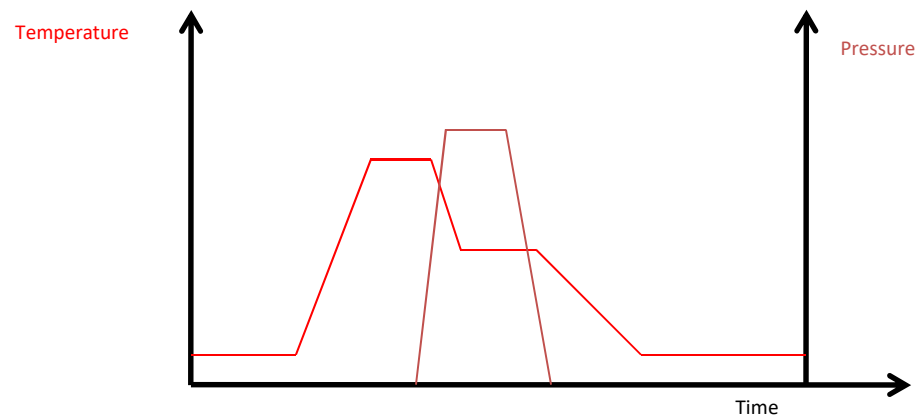
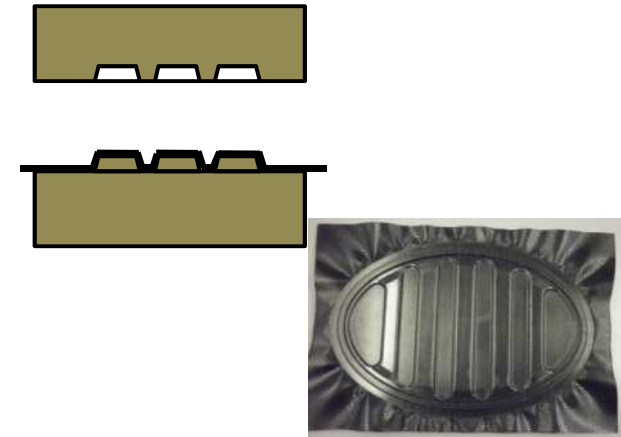


Thermo-stamping

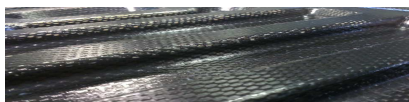
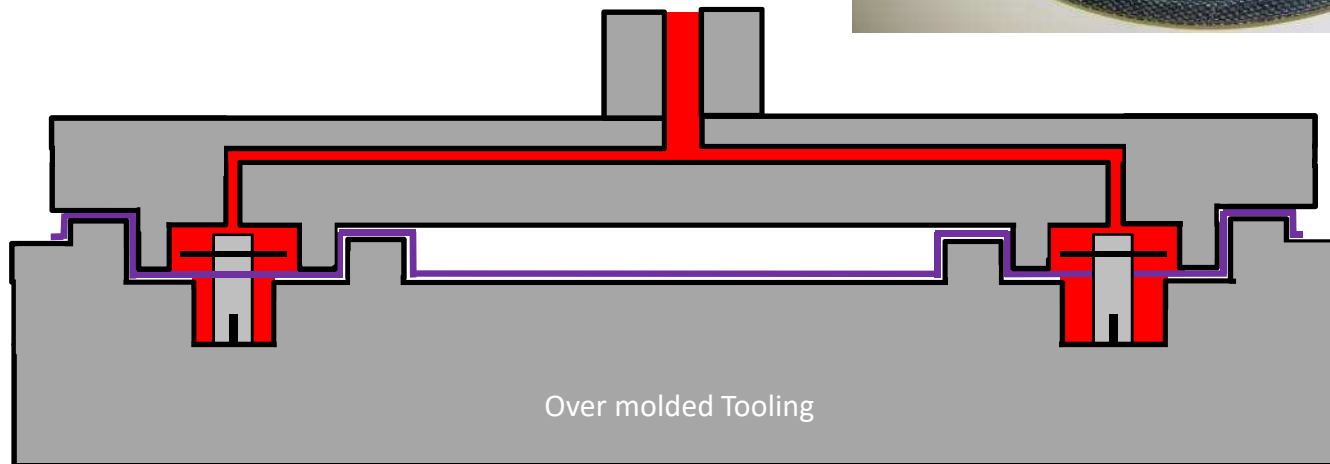
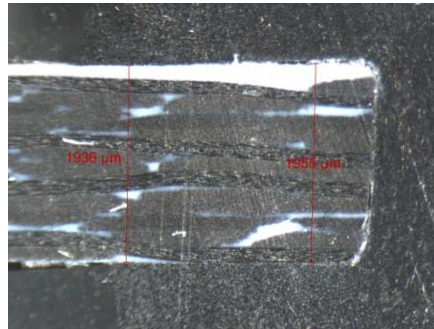
IR-Oven



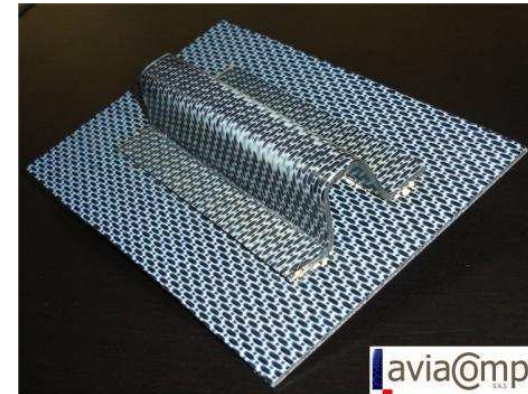
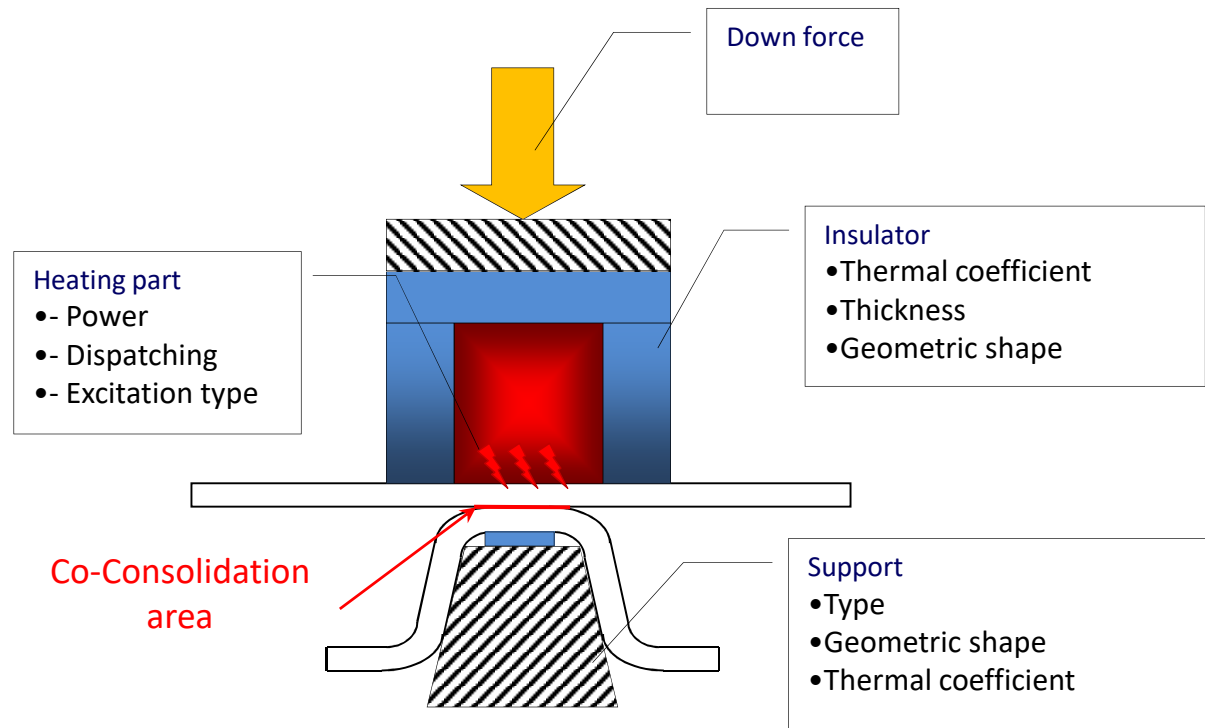
Press



PEEK/CF Over-molded injection principle

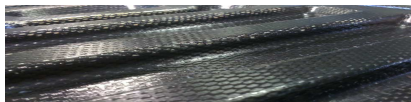
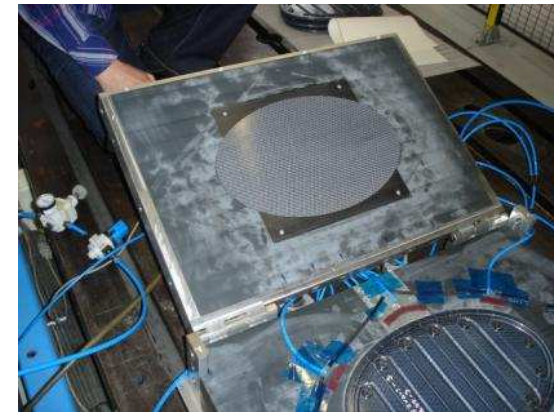
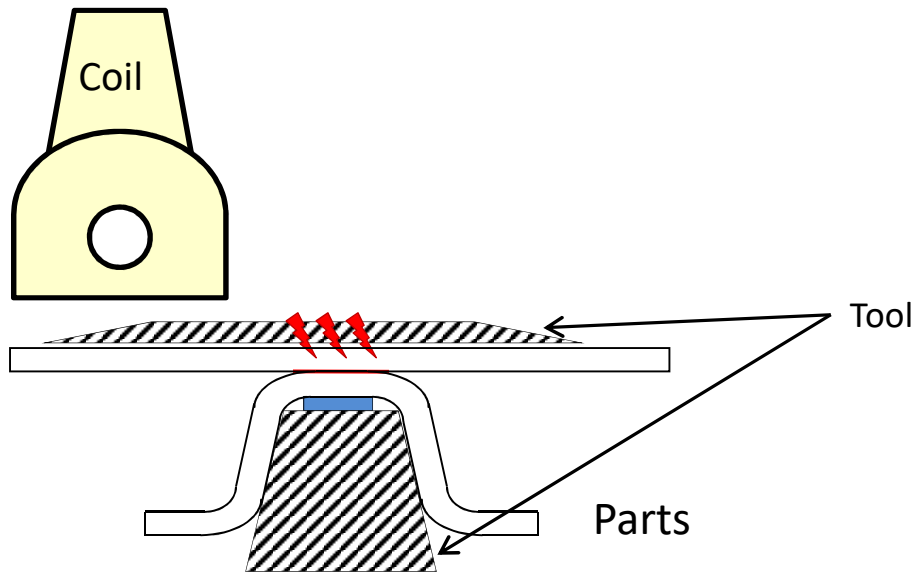


Thermo-welding

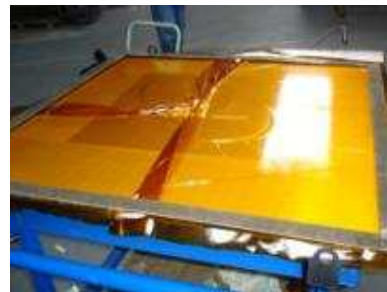
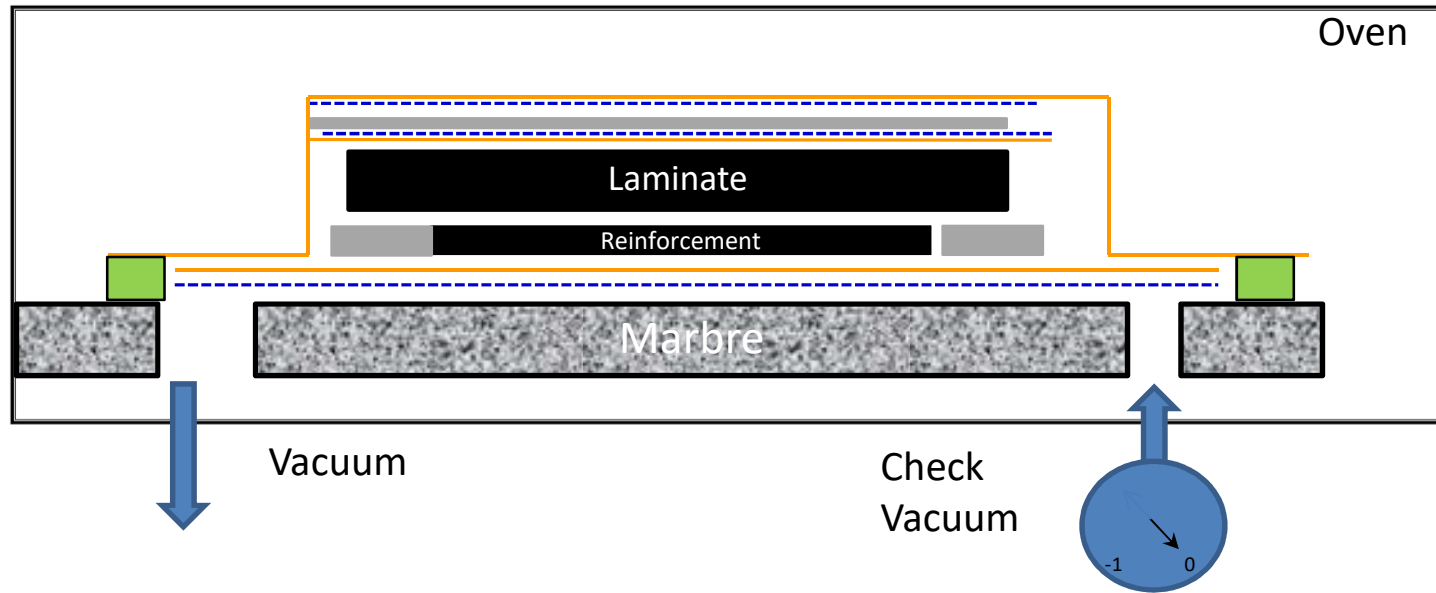


Induction welding

The robot move the coil according to trajectory defined by the welded area.
Process under patent and developed in collaboration with KVE



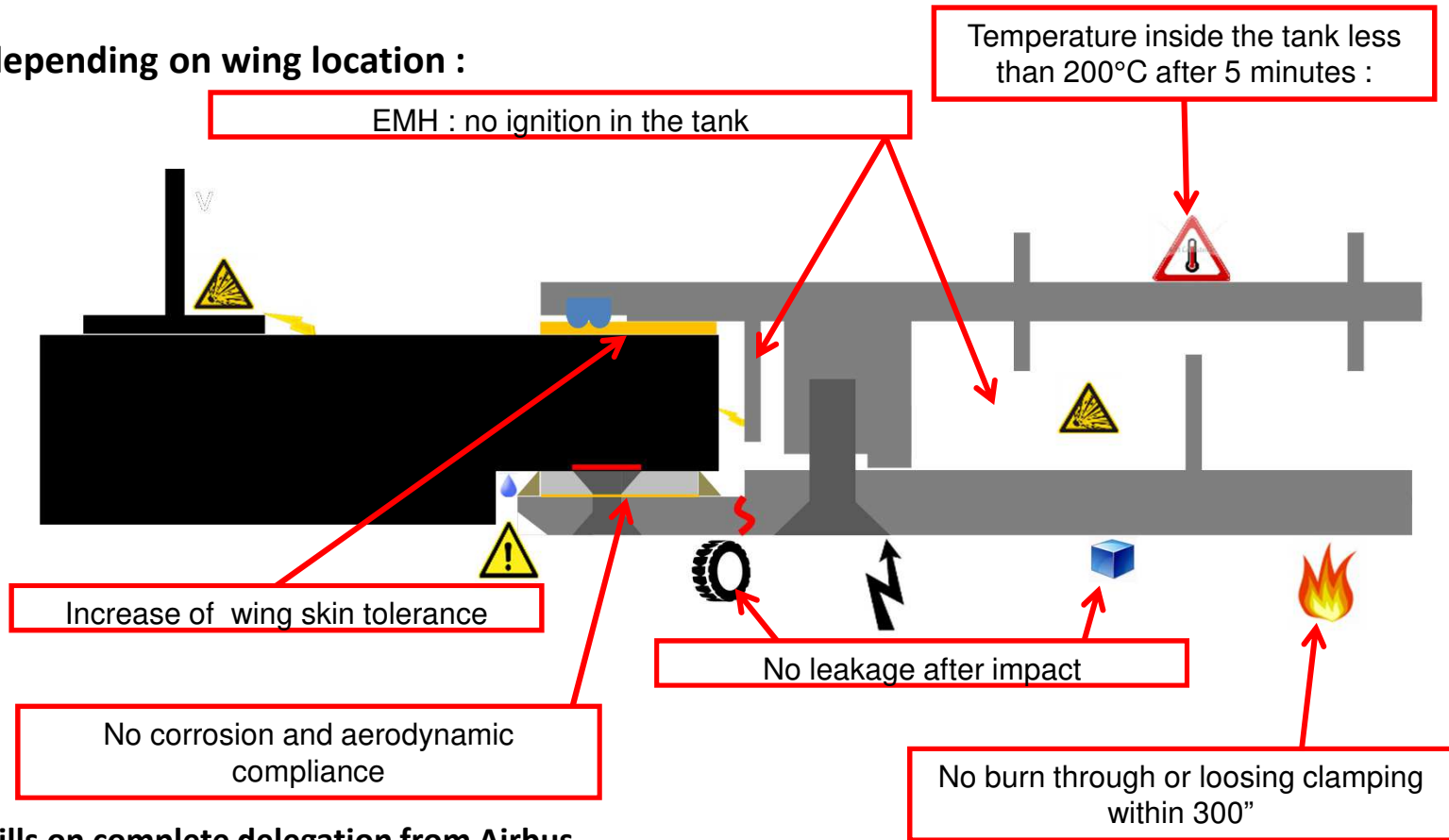
Consolidation out of autoclave





- Development of tests and means
- Support for FAA and EASA certification

Main impact depending on wing location :



Certification skills on complete delegation from Airbus

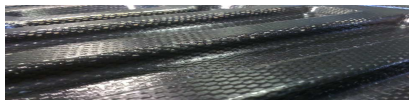
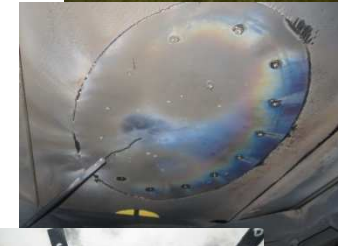
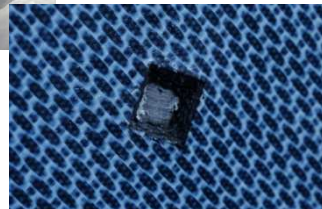
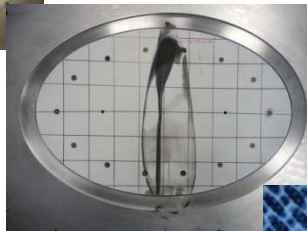
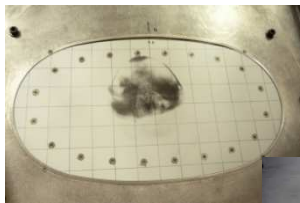


Product fully qualify by tests

Aviacomp have developed tests and means with collaboration of laboratories to qualify FTACs

- Tyre Impact
- Uncontained Engine Rotor Failure
- Fire Test
- Lightening strike test

Certification skills on complete delegation from Airbus



Thank for you attention

For any question do not hesitate to contact me:

Amélie Brientin

Tel: +33 (0)6 32 06 34 98

amelie.brientin@aviacomp.fr



© AVIACOMP S.A.S. All rights reserved. Confidential and proprietary document.

This document and all information contained herein is the sole property of AVIACOMP S.A.S.. No intellectual property rights are granted by the delivery of this document or the disclosure of its content. This document shall not be reproduced or disclosed to a third party without the express written consent of AVIACOMP S.A.S. This document and its content shall not be used for any purpose other than that for which it is supplied.

The statements made herein do not constitute an offer. They are based on the mentioned assumptions and are expressed in good faith. Where the supporting grounds for these statements are not shown, AVIACOMP S.A.S. will be pleased to explain the basis thereof.

AVIACOMP S. A. S and it logo are registered trademarks.



Manufacture of thermoplastics composites



Thermo stamping
450°
175 Tonnes



Fully automatized
Thermo stamping
450°
200 Tonnes



Thermo welding
450°
175 Tonnes



Thermo welding
350°
15 Tonnes



Automatized
Induction Welding
Robot 6 axis
Accuracy 0,3 mm



Manufacture of thermoplastics composites



Consolidation
Out of Autoclave
450°
10 m³

Fully automatized
Water jet cutting
Pressure > 4000 bar

- 6 x 2 m
- 4 x 2 m



Consolidation
Out of Autoclave
450°
10 m³

Manual lay up
2 rooms
100 m²



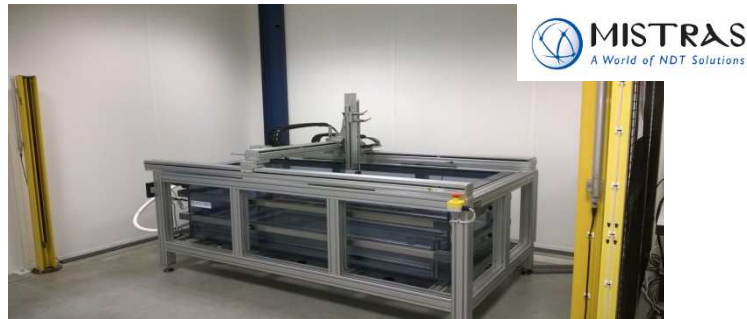
Consolidation
Out of Autoclave
450°
1 m³



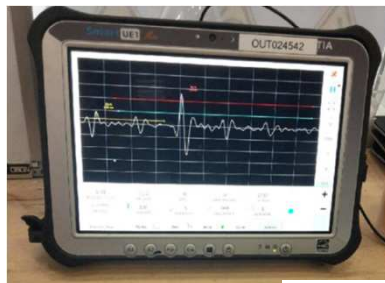
Control of thermoplastics composites

Automatic Cscan

Size : Length 2 m x Width 1 m



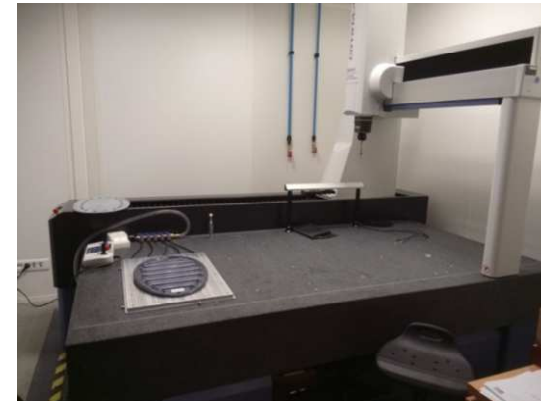
Manual Ascan



OLYMPUS

Automatic 3D Control

- Size : Length 1,6 m x Width 0,7 m x Height 0,6 m
- Maximum weight part : 1,5 T



Manual 3D Control

- Size : Radius 1,8 m



FARO

