

ENVIRONMENTAL TESTING

- Temperature and humidity ageing
- Altitude test
- Fluids susceptibility
- Vibration, Operational Shocks and Crash Safety
- According to RTCA DO-160G and MIL-STD-810G



RESCOLL

TESTING LABORATORIES

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QUALIFICATIONS



Accréditations n°1-1995
et n°1-6323

SPECIMEN MANUFACTURING & MACHINING

- Prepreg layup for incoming tests
- Autoclave curing
- Specimen machining of parts, panels and bonded assemblies

THERMOMECHANICAL & CHEMICAL ANALYSIS

- Uncured prepreg control
- Gel time and viscosity
- Determination of resin and fiber content
- Curing control by DMA or DSC

MECHANICAL TESTING

- Static and fatigue test:
 - Sandwich panels
 - Composites
 - Bonded assemblies
 - Thermosetting and thermoplastic materials
- Specimen preparation and instrumentation
- Testing performed in accordance with AITM, ASTM, ISO and EN standards

STRUCTURES & ENDURANCE FAR25 / JAR25

- Static mechanical testing
 - Triaxial modular bench testing 30T
 - Modular bench testing 15T
 - Tests on seats, galleys, furniture, etc...
 - Triaxial sensors, belt sensors, etc...
- Pitch & Roll testing
- Dynamic endurance testing:
 - Modular endurance testing bench
 - Electrical & pneumatic actuators
 - Servo actuators
 - Tests on seats, doors, meal-tables, arm-rests...

FIRE TESTING

- Flammability
- Heat release
- Smoke density & toxicity
- Oil burner
- According to:
 - CS 25 App. F Part I to VII (EASA requirements)
 - ABD 0031 (AIRBUS requirements)
 - FAR 25 App. F Part I to VII (FAA requirements)
 - D6-51377 (BOEING requirements)

