



Technical Definition

AITM 1-0008 A2 (Thin) Compression Test
Carbon Fiber Composite

Instructions to participant laboratories

Please read carefully these instructions and the AITM 1-0008 standard **BEFORE** starting any test activities.

1. Five A2 specimens (152 x 22 x 2,9 mm) are supplied to each participant. All valid results shall be submitted. 5 results must be provided. In case of exclusion of a test specimen results by yourself, you shall provide a short root cause analysis.
2. Tests shall be performed according to AITM 1-0008 issue 08
3. The conformity of the specimens to the requirements of AITM 1-0008 shall be verified before testing.
4. Prerequisite for starting the tests are:
 - an Airbus qualification for this test
 - For labs which are not qualified yet, the rules of Technical Qualification of Mechanical Test Methods apply. The PTP kit may be used for the required comparison tests.
5. If necessary, the tab length can be adjusted. If you do so, particular care shall be taken on parallelism of edges.
6. Each participant is required to report the following parameter:

Characteristic	Unit	Significant digits	Mandatory / Not mandatory
Specimen dimensions	mm	X,XX	Mandatory
Room Temperature	°C	XX	Mandatory
Ambient humidity	%	XX	Mandatory
Compression strength	MPa	XXX,X	Mandatory
Compression modulus	GPa	XX,X	Mandatory
Failure mode	N/A	N/A	Mandatory

Note : All calculations shall be based on nominal thickness : 2,944 mm

8. Testing shall commence as soon as test specimens are received. All participant laboratories must supply results by August 31st, 2017.
8. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com/>
9. To ensure confidential treatment of results in the final report, each participant lab will be provided with a unique identity number at the moment of his registration to the program.
10. The tested specimens do not need to be sent back to PTP.

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Note:

The following data shall be provided on demand:

- Pictures of failure mode (front and side view)
- Pictures of whole specimen after test
- Result table including all dimensions and results as required in AITM 1-0008
- Load-displacement curves
- Stress-strain curves for each specimen separately with curves for each strain gauge separately
- Detailed Pictures of test set-up
- Specimen dimensional measurement [mm]
- Percent bending at 90% failure load

The following requirements regarding the results have to be met:

- Valid failure mode
- Failure within gauge length
- Load-displacement curve without any discontinuities
- Percent bending strain <10% between 10% and 90% of failure load
- No slipping of specimen in grips is allowed.