

## Technical Definition

Lap Joint Shear  
Carbon Fiber Composite

### *Instructions to participant laboratories*

Please read carefully these instructions **BEFORE** starting the tests.

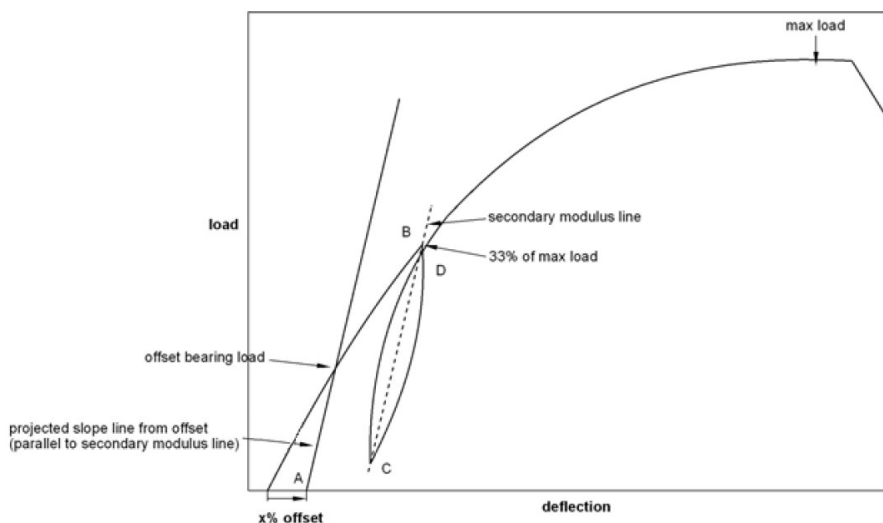
1. Five specimens (225 x 50 x 3,0 mm) are supplied to each participant – 5 results must be provided. In case of exclusion of a test specimen result by yourself, you shall provide a short root cause analysis.
2. The specimens have to be dried during 48 hours (0/+10) at 70°C (+/- 3) and tested within the next 8 hours after the drying.
3. All tests have to be performed at room temperature in accordance with the requirements of AITM 1-0065 issue 2 (See Note).

The tests shall be performed respecting the following conditions:

- One operator only
- One testing machine only
- Tests performed in sequence

Note: All specimens should be tested applying hysteresis loop as described in AITM 1.0065 Issue 2, paragraph 8.3.1 (first specimen requirement should be avoided). Load values for hysteresis loop have been calculated as function of failure load determined in Homogeneity tests.

- Predicted Failure load: 15000 N
- Initial Loop Point (B): 5000 N
- Final Loop Point (C): 1500 N



Additional information concerning the fasteners:

Nominal diameter: 6,35 mm  
Fasteners code: EN6115K4-4  
Nuts code: ASNA2563P4



**Kit Lap Joint Shear PTP  
2017**

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4. The following information need to be reported :

| Characteristic                          | Unit | Significant digits | Mandatory / Not mandatory |
|---|------|--------------------|---------------------------|
| Specimen dimensions                     | mm   | XX,XX              | Mandatory                 |
| Strain System (Extensometer, LVDT, etc) | N/A  | N/A                | Mandatory                 |
| Offset bearing load                     | N    | XXX                | Mandatory                 |
| Maximum loads                           | N    | XXX                | Mandatory                 |
| Failure loads                           | N    | XXX                | Mandatory                 |
| Failure mode                            | N/A  | N/A                | Mandatory                 |

5. Testing shall start as soon as test specimens are received. All participant laboratories must supply results by August 31<sup>st</sup>, 2017.
6. Instructions for submission of results are detailed on the website:  
<https://ptpscheme.com/>
7. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.
8. The tested specimens do not need to be sent back to PTP.