

## Technical Definition

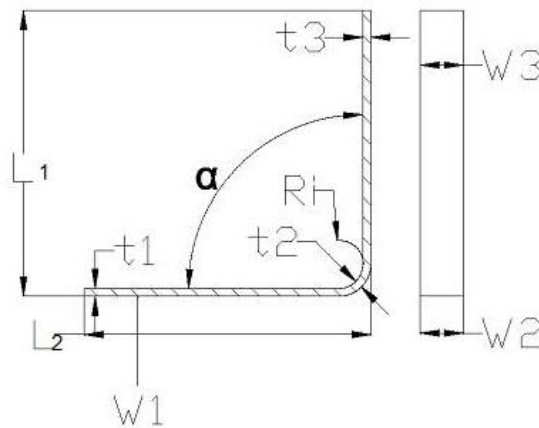
Curved Beam test  
Carbon Fiber Composite

*You shall respect the HSE policy of your laboratory for each performed test.*

### **Instructions to participant laboratories**

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

- Five specimens are supplied to each participant – 5 results must be provided.  
If one result is missing, your test will be considered as an outlier. A RCA shall be completed.



Characteristic	Dimensions
L1/L2	75 mm
$\alpha$	90 °
Ri	10 mm
t1	4,92 mm
t2	4,92 mm
t3	4,92 mm
W1	45 mm
W2	45 mm
W3	45 mm

- The specimens have to be dried during 48 hours (0/+10) at 70°C (+/- 3), kept in controlled conditions and tested within the next 8 hours after the drying.
- All tests have to be performed at room temperature in accordance with the requirements of **AITM 1-0069 issue 2**.

The tests shall be performed respecting the following conditions:

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

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4. The following information need to be reported:

Characteristic	Unit	Significant digits	Mandatory / Not mandatory	Evaluated Yes/no
Specimen dimensions	mm	X,XX	Mandatory	No
Test set up check protocol table	N/A	N/A	Mandatory	No
First crack load	N	XXX	Mandatory	<b>Yes</b>
Final failure load	N	XXX	Mandatory	<b>Yes</b>
Failure displacement method (crosshead or LVDT)	N/A	N/A	Mandatory	No
Failure displacement	mm	X,XX	Mandatory	<b>Yes</b>
Upload of the official test report	N/A	N/A	Mandatory	No

All evaluated characteristics will be analysed according to the algorithm A and S (ISO 13528 – 2015) and evaluated using z-score.

5. Testing shall start **as soon as test specimens are received**. Please contact the following e-mail address for any technical or administrative query.

Shipment date from	<b>January 2022</b>
Submission date :	<b>May 1<sup>st</sup>, 2022</b>
Technical and administrative support :	<a href="mailto:info@ptpscheme.com">info@ptpscheme.com</a>

6. Instructions for submission of results are detailed on the website:

<https://ptpscheme.com/>

7. To ensure the confidential treatment of your results in the final report, you will be allocated a unique identity number when you register for the program.
8. Collusion and falsification of your PTP results are totally forbidden. In case of identification or suspicion of collusion or falsification, the laboratory will be excluded from the program and the sponsors will be immediately informed. The sponsors could ask you proofs of your records and analyses, so be sure to conserve data, curves and specimens.
9. The tested specimens do not need to be sent back to PTP.

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#### APPENDIX : Instructions for IRR participation

The Internal Round Robin participation (IRR) is **optional** and **independent** from your PTP participation.

**Confidentiality** : The IRR results and reports are confidential and only accessible by your laboratory. They are not shared with the scheme sponsors or any other accreditation or certification bodies.

The extra samples shall be tested according to the following table:

	Operator 1	Operator 2	Operator 3	Operator 4	Operator X
<b>Test machine 1</b>	PTP kit (5 samples)	3 samples	3 samples	3 samples	3 samples
<b>Test machine 2</b>	3 samples				
<b>Test machine 3</b>	3 samples				
<b>Test machine Y</b>	3 samples				

**Operator 1** (OP1) is to be the most experienced operator currently conducting tests on a regular basis and shall perform tests on all machines (TM1, TM2, TM3...)

**Test Machine 1** (TM 1) is to be the most utilised machine for this test in your laboratory and shall be tested by all operators (OP1, OP2, OP3...)

Example: A laboratory has 2 operators and 3 test machines. They receive a PTP kit and 9 extra specimens.

Operator 1 shall test the PTP kit on TM1, 3 specimens on TM2 and 3 specimens on TM3.

Operator 2 shall test 3 specimens on TM1.

The IRR results have to be submitted on a separate results form available on the PTP website.

The identification of operators and test machines you provide will appear on the IRR final report. These identifications will not be seen by other laboratories.

The IRR results will be classified against the acceptance classes of the kit Curved Beam-2022.

**Reminder:** Laboratories are not permitted to switch specimens between the PTP kit and IRR samples. The traceability of the samples will be checked during the evaluation. Laboratories found to have switched samples will invalidate their PTP participation.

#### REVISION HISTORY

Issue Date	Issue N°	Changes
30/11/2021	1	Document creation