

LINE BREAKING STRENGTH after 5000 bendings

TEST REPORT LI

LI LINE PARAGLIDERS

Test report number: LI_452.2016

MANUFACTURE

Name: AirDesign GmbH
Representative: Stephan Stiegler
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Post code / place: 6067 Absam
Country: Austria

SAMPLE DATA

Manufacturer: Edelrid
Type no: 190
Material core: Aramid
Type of seam: Splice
Date of sample reception: 01.06.2016
Line name: 8000-U
Diameter [mm]: 1.2
Material coat: n/a
Color: Red
Test sample length [mm]: 500-550

TEST DATA

Directive: EN 926-1:2015 chapter 4.6 / LTF NfL 91/09 - NfL 2-251-16, chap 3.2.3

Three specimens of each line type with a length 0,5 m with loops on each end, used in the suspension line system are conditioned and then its breaking strength is measured. A line under a constant tension of 2 N ± 10% is bent back and forward around a cylinder the same diameter as the nominal diameter of the line given by the manufacturer of the line (± 0,1 mm) with a minimum of 0,7 mm. The centre point of the bend is to be aligned with the weakest point of the line. The minimum rotation required for a cycle is 350°. A complete cycle shall take a maximum of 2 s (2 bendings).

After 5 000 complete bending cycles, the breaking strength of the test specimen is measured.. The speed rate of the test device for applying the load shall be between 0,7 m/min and 1 m/min. For the calculation, the lowest value out of the three test specimens is measured.

Bending test date test: 07.06.2016
Strength test date : 09.06.2016
Date of issue: 09.06.2016
Place of test: Villeneuve
Inspector: Alain Zoller
Test manager signature:

ATMOSPHERE AGL	Bending test	Strenght test
[C°]	24.5	23.1
RH [%]	54	58
[hPa]	1021.1	1019.7

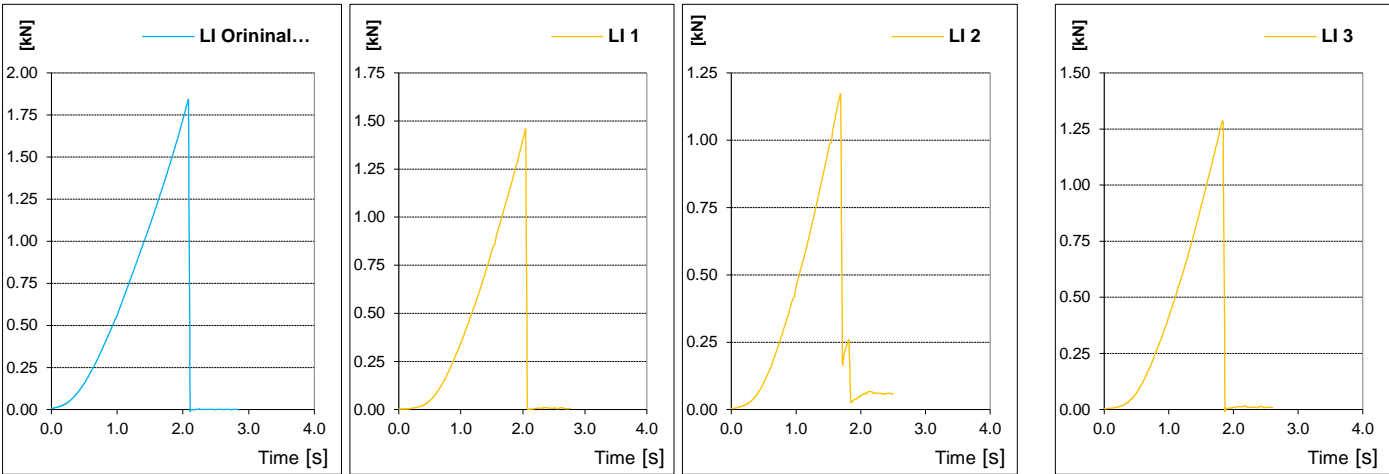
TEST RESULTS [daN] Lines shape description after bending:

If initial breaking strength manufacturer n/a
LI Orininal (no bending) 184.4
LI 1 146.0 No visible damage
LI 2 117.4 No visible damage
LI 3 128.8 No visible damage
Uncertainty K=2 1.5

Calculated value 115.9

Calculated value include the lowest value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

RESULTS GRAPHIQUE [kN] Load speed AT system: 0.016 [m/s]



Item	Manufacturer	Type nr.	S/N	Valid	Involved test
Bending machine	JPJ	n/a	n/a	15.12.2025	Line bending test
Load Cell (axial)	Burster / MTS	8431-10000	1185483	11.06.2016	Line strength test
USB interface	Burster / MTS	9205-V001	10000469	11.06.2016	Line strength test

The validation of this test report is given by the signature of the test manager on page 1/2

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ARCHIVE LI

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Manufacturers name : Edelrid

Line name	Type no.	Diameter	Core	Coat	Color
8000-U	190	1.20	Aramid	n/a	Red

Original [daN]	LI 1 [daN]	LI 2 [daN]	LI 3 [daN]
184.4	146.00	117.40	128.80