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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

LINE BREAKING STRENGTH after 5000 bendings

TEST REPORT LI

LI LINE PARAGLIDERS

Test report number: **LI_455.2016**

MANUFACTURE

Name:	**AirDesign GmbH**
Representative	**Stephan Stiegler**
Street:	**Rhomberstrasse 9, 3. Stock**
Post code / place:	**6067 Absam**
Country:	**Austria**

SAMPLE DATA

Manufacturer:	**Edelrid**	Line name:	**8000-U**
Type no:	**70**	Diameter [mm]:	**0.7**
Material core:	**Aramid**	Material coat:	**n/a**
Type of seam:	**Splice**	Color:	**Red**
Date of sample reception:	**01.06.2016**	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.

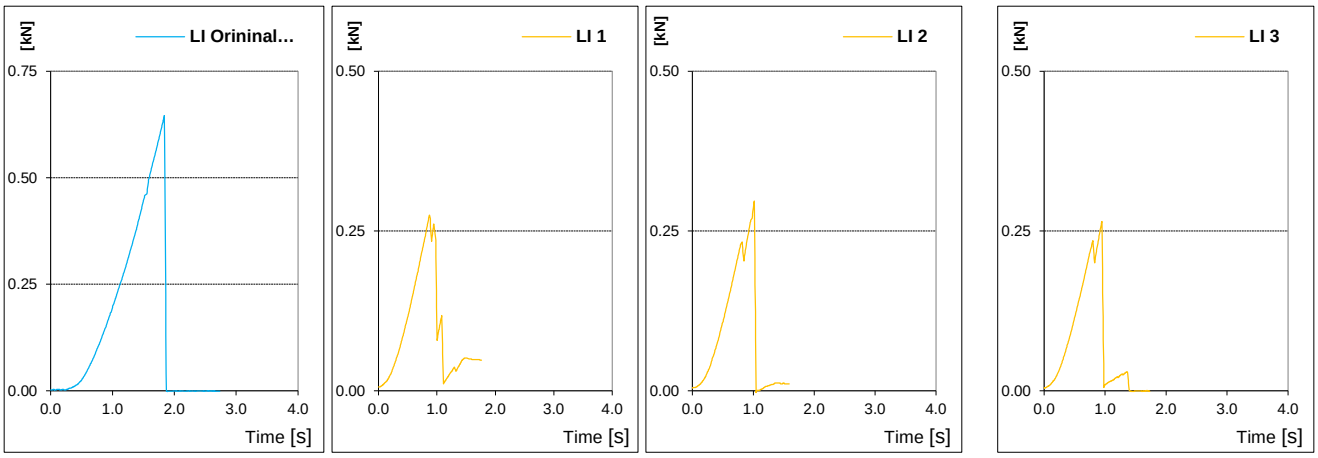
Bending test date test:	**07.06.2016**	Strength test date :	**09.06.2016**
Date of issue:	**09.06.2016**	Place of test:	**Villeneuve**
Inspector:	**Alain Zoller**	Test manager signature:	

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)	**64.6**	
LI 1	**27.5**	No visible damage
LI 2	**29.7**	No visible damage
LI 3	**26.5**	No visible damage
Uncertainty K=2	**1.5**	
Calculed value	**25.0**	

Calculed 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 tes
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

LINE BREAKING STRENGTH after 5000 bendings

ARCHIVE LI

LI LINE PARAGLIDERS

Test report number: **LI_455.2016** Strength test date inspection: **09.06.2016**

Manufacturers name : **Edelrid**

Line name	**Type no.**	**Diameter**	**Core**	**Coat**	**Color**
8000-U	70	0.70	Aramid	n/a	Red

Original [daN]	**LI 1** [daN]	**LI 2** [daN]	**LI 3** [daN]
64.6	27.50	29.70	26.50

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