LINE BREAKING STRENGTH after 5000 bendings

TEST REPORT LI

LI LINE PARAGLIDERS

Test report number: LI_454.2016

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: 90 Diameter [mm]: 0.8
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) 86.5

Offinial (no bending) 60.3

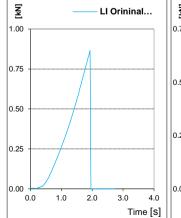
LI 2 48.1 No visible damage
LI 3 64.5 No visible damage

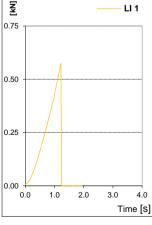
Uncertainty K=2 1.5

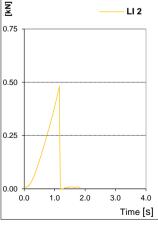
Calculed value 46.6

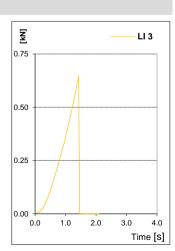
Calculed value include the lowest value minus the uncertainty (on safe side) / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.

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

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

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ARCHIVE LI

LI LINE PARAGLIDERS

Test report number: LI_454.2016 Strength test date inspection: 09.06.2016

Manufacturers name : Edelrid

Line name	Type no.	Diameter	Core	Coat	Color
8000-U	90	0.80	Aramid	n/a	Red

Original [daN]	LI 1 [daN]	LI 2 [daN]	LI 3 [daN]
86.5	57.50	48.10	64.50