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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_924.2021

MANUFACTURE

Name: AirDesign GmbH
Representative Stephan Stiegler

Street: Rhomberstrasse 9, 4. Stock

Post code / place: A-6067 Absam

Country: Austria

SAMPLE DATA

 Manufacturer:
 Edelrid
 Line name: 8000U

 Type no:
 230
 Diameter [mm]: 1.30

 Material core:
 Aramid
 Material coat: n/a

 Type of seam:
 Splice
 Color: Red

Date of sample reception: 15.02.2021 Test sample length [mm]: 500-550

Remark:

TEST DATA

Standards: EN 926-1:2015/ LTF NfL 91/09

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: 16.02.2021 Strength test date : 16.02.2021

Date of issue: 26.02.2021 Place of test: Villeneuve

Inspector: Alain Zoller Test manager signature:

ATMOSPHERE AGL	Bending test	Strenght test
[C°]	21	22
RH [%]	29	28
[hPa]	1014	1009

TEST RESULTS [daN] Lines shape description after bending:

LI Original (no bending) 220.7

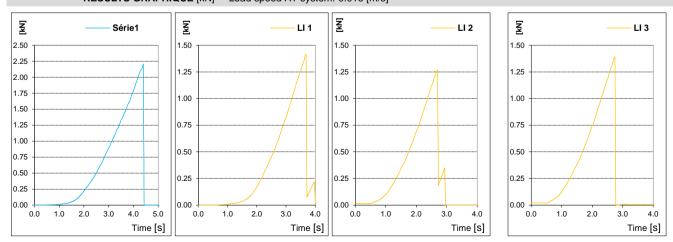
LI 1 141.1 No visible damage
LI 2 126.9 No visible damage
LI 3 139.2 No visible damage

Uncertainty K=2 2.2

Calculed value 124.7

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 test
Load Cell (axial)	Burster / MTS	8431-10000	1185483	04.09.2023	Line strength test
USB interface	Burster / MTS	9205-V001	10000469	04.09.2023	Line strength test

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LINE BREAKING STRENGTH after 5000 bendings

ARCHIVE LI

LI LINE PARAGLIDERS

Test report number: LI_924.2021 Strength test date inspection: 16.02.2021

Manufacturers name : Edelrid

Line name	Type no.	Diameter	Core	Coat	Color
8000U	230	1.30	Aramid	n/a	Red

Original [daN]	LI 1 [daN]	LI 2 [daN]	LI 3 [daN]
220.7	141.10	126.90	139.20