

## Line Breaking Strength after 5000 bendings

Test Report LI

## LI Line Paragliders

Test report number: **LI\_1042.2021**

## Manufacturer data

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: **9200**  
 Type no: **35** Diameter [mm]: **0.10**  
 Material core: **Dyneema** Material coat: **n/a**  
 Type of seam: **Splice** Color: **White**  
 Date of sample reception: **19.11.2021** Test sample length [mm]: **500-550**  
 Remark:

## Test Data

Standards: **EN 926-1:2015/ NfL 2-565-20**

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  $2 \text{ N} \pm 10\%$  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 ( $\pm 0,1 \text{ mm}$ ) 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  $350^\circ$ . 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: **23.11.2021**Strength test date : **24.11.2021**Date of issue: **24.11.2021**Place of test: **Villeneuve**

Inspector:

Test manager signature:

## Atmosphere AGL

## Bending test

## Strenght test

[C°]

**21****20**

RH [%]

**39****50**

[hPa]

**1010****1009**

## Test Results

[daN]

## Lines shape description after bending:

LI Original (no bending)

**38.9**

LI 1

**32.7**

No visible damage

LI 2

**28.4**

No visible damage

LI 3

**26.7**

No visible damage

Uncertainty (k=2)

**0.2**

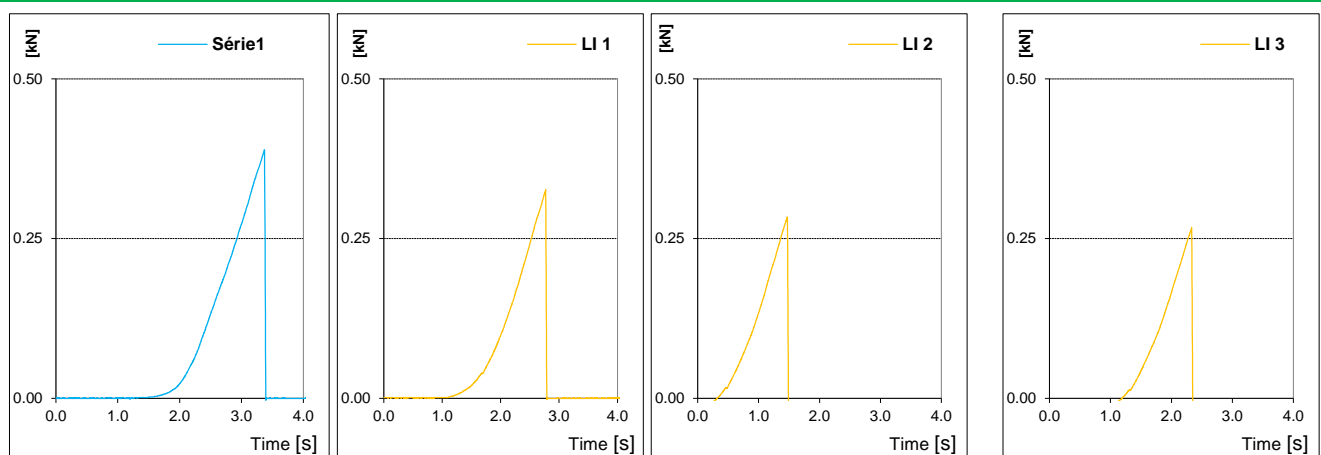
## Calculated value

**26.5**

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 Graphic [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 sensor 10kN SL2	Burster / MTS	8431-6010-N000S000	593507	21.04.2026	Line strength test
USB interface	Burster / MTS	9026-V0001	597176	21.04.2026	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\_1042.2021**Strength test date inspection: **24.11.2021**Manufacturers name : **Edelrid**

Line name	Type no.	Diameter	Core	Coat	Color
9200	35	0.10	Dyneema	n/a	White

Original [daN]	LI 1 [daN]	LI 2 [daN]	LI 3 [daN]
38.9	32.70	28.40	26.70