

Line breaking strength report

Inspection certification number :
Manufacturer name : SWING Flugsportgeräte GmbH
Model name and size : SPHERA RS L
Report valid for the other sizes of model : SPHERA RS

kg dNf
Maximum weight: 120 137.6

Line specification and line breaking strength in dNf (intrinsic to weakest value)⁽¹⁾

Line number	Manufacturer	Line type	strength (dNf)	Test no.
1	Edwards	8001-300	211.2	
2	Edwards	8001-230	151.4	611
3	Edwards	8001-190	104.6	610
4	Edwards	8001-130	59.9	549

Line number	Manufacturer	Line type	strength (dNf)	Test no.
5	Lines	DC 80	58.9	
6	Edwards	8001-090		
7	Edwards	8001-050		
8				

Handle knot 1 Lines DFLS 200 85.0

Line breaking strength, theoretical calculation (see details on the following pages)⁽²⁾

	dNf	g
Sum	360.80	7.32
A+B+C+D	367.20	7.37
Stable line	133.80	9.79
Level 4	2002.60	17.03

A, B and C, the sum of each level must be equal or exceed 1400dN or 14g

Result: **NEGATIVE**

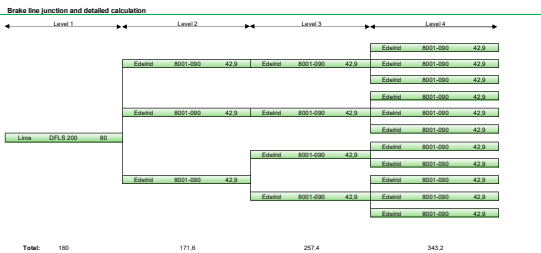
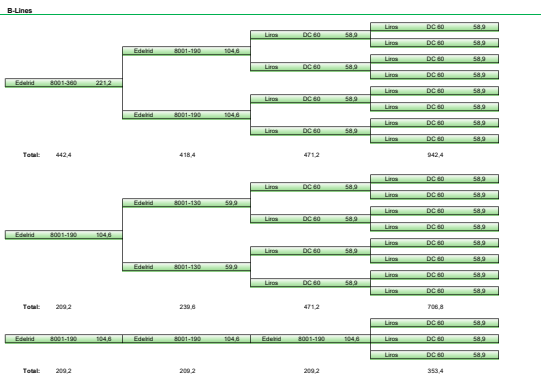
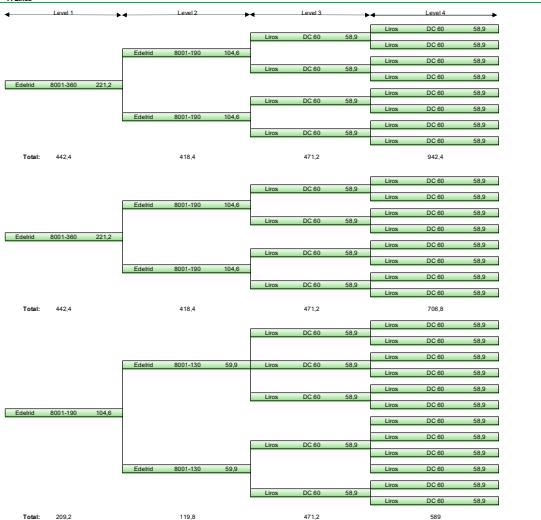
	dNf
Sum each level of broke lines	195.00
Level 2	177.60
Level 3	257.40
Level 4	343.20
Level 5	0.00

Brake line, the sum of each level must be equal or exceed 150dN

Result: **POSITIVE**

Place of inspection:
Date of issue: 08.nov.2019

As Turquoise SA we thoroughly tested inspection for a number of paraglider mentioned above, and calculated the overall strength. It certifies to conforming with the standards EN 901-1:2018 chapter 3.3, 3.4, 4.3 (LTP NF), 4.4:2018 chapter 3
Line junction and detailed line strength calculation



(1) Suspension lines have been tested according to EN 901-1:2018 chapter 4.6, and for the calculation the lowest value out of 3 test specimens is used. The minimum breaking strength of any line shall be greater than 200N.

(2) Note: The breaking strength of the lines is calculated according to the EN 901-1:2018 chapter 4.6, and for the calculation the lowest value out of 3 test specimens is used. The minimum breaking strength of any line shall be greater than 200N.

(3) Sum of each level for A, B, C, D, stable and brake suspension lines and value for the entire paraglider gear set and rope (DGL). Subsequent levels are defined by rope further to junction. The result is defined as the line attached to that or main control handle.