

# Line and Riser Measurements of flight test Paraglider <sup>(1)</sup>

Report No. : **PG\_1912.2022** Sample name: **Cumeo 2 95** Date measure: **31.03.2021** Place: **Villeneuve**  
 Manufacturer: **Skywalk** S/N: **CH10 001** Responsible: **Claude Thurnheer** Linked: **ISO 91.20**

## Total line length including risers [mm]

Main brake line with diff color than A,B,C main line?  Yes

	A			B			C			D			E			Stab			Brake			+strap
	Manu <sup>(2)</sup>	Sample	Diff	Manu	Sample	Diff	Manu	Sample	Diff	Manu	Sample	Diff	Manu	Sample	Diff	Manu	Sample	Diff	Manu	Sample	Diff	Sample
Center 1	7418	7413	-5	7350	7350	0	7448	7440	-8	7498	7497	-2			0	6664	6651	-13	7693	7701	8	
2	7379	7378	-1	7309	7307	-2	7403	7399	-4	7459	7458	-1			0	6634	6620	-14	7424	7438	14	
3	7352	7346	-7	7280	7275	-5	7383	7380	-3	7432	7431	-1			0	6661	6647	-14	7274	7286	12	
4	7373	7371	-2	7303	7299	-5	7367	7363	-4	7419	7422	3			0	6576	6565	-11	7225	7240	15	
5	7376	7373	-3	7300	7294	-6	7460	7455	-5	7500	7504	4			0	6551	6537	-14	7158	7171	13	
6	7301	7296	-5	7227	7223	-4	7422	7411	-11	7449	7446	-3			0	6601	6588	-13	6999	7014	15	
7	7315	7310	-5	7242	7236	-6	7326	7315	-11	7362	7362	0			0	6664	6650	-14	6952	6965	13	
8	7254	7248	-6	7191	7186	-5	7330	7324	-6	7365	7363	-2			0				6977	6991	14	
9	7264	7259	-5	7204	7197	-7	7278	7266	-12	7311	7303	-8			0				6859	6871	12	
10	7163	7156	-7	7091	7086	-5	7294	7281	-13	7325	7318	-7			0				6721	6736	15	
11	7081	7070	-11	7013	7010	-4	7173	7177	4			0			0				6653	6668	15	
12	7077	7068	-9	7009	7005	-4	7084	7088	4			0			0				6603	6617	14	
13	6997	6986	-11	6919	6912	-7	7072	7077	5			0			0						0	
14	6942	6931	-11	6871	6863	-8	6953	6954	1			0			0						0	
Wing tip 15	6962	6953	-9	6886	6872	-14	6896	6899	3			0			0						0	
16			0			0	6903	6904	1			0			0						0	
17			0			0			0			0			0						0	
18			0			0			0			0			0						0	

Stab line to riser:  B

Number Cell:

Weight of the glider [kg]:

Tolerance [mm] <sup>(4)</sup>:

## Riser measurement - total length (inner edge) [mm] <sup>(3)</sup>

Total length (incl. Carabiner or connect)	Risers				Total length (no carabiner or connect)	Risers		
	Std	Acc	Trim	A		Std	Acc	
A	541	370	n/a	A	514	343		
A'	540	369	n/a	A'	513	342		
B	542	424	n/a	B	515	397		
C	548	548	n/a	C	521	521		
D			n/a	D				
Acc	171	*[mm]		Acc	171	*[mm]		
Trimmer	n/a	[mm]		Trimmer	n/a	[mm]		

No. of risers   
 Tolerance [mm]

Carabiner [mm]   
 Tolerance [mm]

\*Travel range (distance between A and rear riser)

## Acc system configuration max travel



Another trim configuration  No  
 If yes (description):

## Test Atmosphere AGL

Pressure [hPa]   
 Humidity [%]   
 Temperature [°C]

## Plausibility check :

[mm] 500   
 [mm] 10000

Remark:

## Instrument validity

Laser distance meter   
 Line measurements system

Uncertainty of instrument [mm]

Present inspection's scope only extends to the conformity of a given sample, on a given date and in a given place – as mentioned here above. The validation of this report is given by the signature of the test manager on inspection certificate 91.20

<sup>(1)</sup>Total length measured from the underside of the glider to the inner edge of the risers with a tension of 50 [N]. Measured values do not include the uncertainty/The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The measured values lies within the assigned range of values with a probability of 95%. <sup>(2)</sup> Manu=Values from manufacturer, Sample=Measured by inspector.

<sup>(3)</sup> Risers, Std=Trim speed, Acc=Accelerated, AND if trimmer: Open=trimmer open, Closed=trimmer closed, Trim=measured at this position. <sup>(4)</sup>Tolerance line and riser is +/-15 [mm]